

\\ \\ \\ qvemoT CamoTvl il i nivTierebebidan romel i Sedis gl ikokal i qsis
Semadgenl obaSi?
\\ \\ cil ebi
\\ \\ l ipidebi
\\ \\ ol igosaqaridul i j aWvebi
\\ \\ nukl einis mJavebi

\\ \\ \\ qvemoT CamoTvl il i struqtirebidan romel i qmnis membranis SerCeviTi
gamtarebl obis safuZvel s?
\\ \\ qol esterini
\\ \\ fosfol ipidebis biSre
\\ \\ periferiul i cil ebi
\\ \\ gl ikokal i qsi

\\ \\ \\ membranis qvemoT CamoTvl il i ubnebidan sad mdebareobs ol igosaqaridul i
j aWvebi?
\\ \\ bil ipidur SreSi
\\ \\ bil ipiduri Sris mxol od erT naxevarSi
\\ \\ membranis egzopl azmur zedapirze
\\ \\ membranis citopl azmur zedapirze

\\ \\ \\ qvemoT CamoTvl il i nivTierebebidan romel i ganapirobebs upiratesad
biomembranis denadobis xarisxs?
\\ \\ integral uri cil ebi
\\ \\ fosfol ipidebi
\\ \\ qol esterini
\\ \\ ol igosaqaridebi

\\ \\ \\ uj redis garsis ra nawil Si mdebareobs membranul i cil ebis receptorul i
nawil ebi?
\\ \\ citopl azmur zedapirze
\\ \\ egzopl azmur zedapirze
\\ \\ bil ipidur SreSi
\\ \\ membranis gareTa da SigniTa Sreebs Soris

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i ar ekuTvnis membranul cil ebs?
\\ \\ histonuri
\\ \\ receptorul i
\\ \\ transportul i
\\ \\ fermentul i

\\ \\ \\ qvemoT CamoTvl il i struqtirebidan roml is membrana Seicavs yvel aze didi
raodenobiT cil ebs?
\\ \\ endopl azmuri bade
\\ \\ gol j is aparati
\\ \\ peroqsisoma
\\ \\ mitoqondria

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel Si mdebareobs krebsis cikl is
fermentebi?
\\ \\ endopl azmuri bade
\\ \\ peroqsisoma
\\ \\ gol j is aparati
\\ \\ mitoqondria

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mitoqondriis SigniTa membranas?
- \\ \\ cil ebiT yvel aze Raribi membranaa
- \\ \\ Seicavs krebsis cikl is fermentebS
- \\ \\ gl uvia
- \\ Seicavs el eqtronebis transportis sistemas

- \\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mitoqondriul i el eqtronul i transportis sistema?
- \\ \\ kristebi
- \\ \\ interkristul i sivrce
- \\ \\ gareTa membrana
- \\ \\ matriqsis granul ebi

- \\ \\ \\ qvemoT CamoTvl il i mitoqondriul i struqturēbidan romel i Seicavs kal ciums?
- \\ \\ matriqsul i granul ebi
- \\ \\ membranaTa Sorisi sivrce
- \\ \\ matriqsi
- \\ \\ gl obul uri struqturēbi

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mitoqondrias?
- \\ \\ uj redSi Tanabrad aris gadanawil ebul i
- \\ \\ grovdeba uj redis maRal i funqciuri aqtivobis ubnebSi
- \\ \\ ZiriTadad birTvis maxl obl ad mdebareobs
- \\ \\ grovdeba gol j is aparatis maxl obl ad

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mitoqondriis membranaTaSorisi sivrces?
- \\ \\ SigniTa membraniT moisazRvreba
- \\ \\ Seicavs kristebS
- \\ \\ wyal bad-ionebis gradientis SeqmnaSi monawil eobs
- \\ \\ monawil eobs JangviT fosforil ebaSi

- \\ \\ \\ qvemoT CamoTvl il i membranul i cil ebidan romel i Warbobs mitoqondriis gareTa membranaSi?
- \\ \\ receptorul i
- \\ \\ transportul i
- \\ \\ fermentul i
- \\ \\ periferiul i

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mitoqondriebis kristebS?
- \\ \\ mniSvnel ovnad zrdis SigniTa membranisi gamtarunarianobas
- \\ \\ mniSvnel ovnad zrdis SigniTa membranisi saerTo farTobs
- \\ \\ monawil eobs kal ciumis ionebis dabal i koncentraciis SenarCunebaSi
- \\ \\ mitoqondriul i ribosomebis mimagrebiS adgil ebia

- \\ \\ \\ qvemoT CamoTvl il i procesēbidan romel siwvevs mitoqondriaSi kristebisi raodenobisi mateba?
- \\ \\ cil is sintezisi gaZl iereba
- \\ \\ JangviTi fosforil ebiS gaZl iereba
- \\ \\ gareTa membranaSi transportisi gaZl iereba
- \\ \\ kal ciumis ionebis intensiuri dagroveba

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ze iwyeba yvel a saxisi cil is sintezi uj redSi?

- \\ Tavisufal i pol iribosomebi
- \\ gol j is aparati
- \\ nukl eosomebi
- \\ marcvl ovani endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs sekreciul i cil ebis sawyis gl ikozil irebaSi?

- \\ gol j is aparati
- \\ Tavisufal i ribosomebi
- \\ mitogondria
- \\ marcvl ovani endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel i ar axasiaTebis endopl azmur bades?

- \\ cil ebis posttransl aciuri modifikacia
- \\ kal ciumis ionebis deponireba
- \\ naxSirwyl ebis sinTezi
- \\ JangviTi fosforil ireba

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i monawil eobs saeqsporto cil ebis agebaSi?

- \\ Tavisufal i pol isomebi
- \\ riboforinebi
- \\ mitogondriul i ribosomebi
- \\ marcvl ovani endopl azmuri badis pol isomebi

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad ganicdis fiqsirebul ribosomebze agebul i cil ebi posttransl aciur modifikacias?

- \\ citopl azmaSi
- \\ endopl azmur badeSi
- \\ uj redgare matriqsSi
- \\ birTvSi

\\ \\ \\ qvemoT CamoTvl il i Tanmimdevrobebidan roml is arseboba axasiaTebis yvel a saeqsporto cil as, romel ic fiqsirebul ribosomebze igeba?

- \\ samizne
- \\ sasignal o
- \\ saeqsporto sasignal o
- \\ topogenuri

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel s aqvs mravl obiTi topogenuri Tanmimdevroba?

- \\ erTarxiani integral uri
- \\ mraval arxiani integral uri
- \\ birTvul i
- \\ ribosomis

\\ \\ \\ integral uri cil is romel i nawil i ganicdis postrtransl aciur modifikacias endopl azmur badesa da gol j is aparatSi?

- \\ membranul i
- \\ citopl azmuri
- \\ egzopl azmuri
- \\ citopl azmuri da egzopl azmuri

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs endopl azmuri bade?
\\ \\ transporti, sunTqva da sinTezi

- \\ SekumSva, transporti da difuzia
- \\ sinTezi, dagroveba da transporti
- \\ dagroveba, transporti da monel eba

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel s ar ganicdis cil is mol ekul a endopl azmur badeSi?

- \\ disul fiduri bmebis Camoyal ibeba
- \\ sabol oo gl ikozil ireba
- \\ mraVal j aWviani cil ebis warmoqmna
- \\ specifiuri formis Camoyal ibeba

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i ar igeba marcvl ovani endopl azmuri badis pol isomebze?

- \\ membranul i cil ebi
- \\ saeqsporto cil ebi
- \\ l izosomuri cil ebi
- \\ tubul inis mol ekul ebi

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad ganicdis Tavisufal ribosomebze agebul i cil ebi posttransl aciur modifikacias?

- \\ endopl azmur badeSi
- \\ gol j is aparatSi
- \\ citopl azmaSi
- \\ uj redgare matriqsSi

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad ganicdis fiqsirebul ribosomebze agebul i cil ebi posttransl aciur modifikacias?

- \\ gol j is aparatSi
- \\ citopl azmaSi
- \\ uj redgare matriqsSi
- \\ mitoqondriaSi

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs cil ebis posttransl aciur modifikaciaSi?

- \\ gol j is aparati
- \\ mitoqondria
- \\ peroqsisoma
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i axdens sekreciul i cil ebis modifikacias da daxarisxebas?

- \\ gol j is aparati
- \\ endopl azmuri bade
- \\ birTvaki
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTebis gol j is aparats?

- \\ energiis warmoqmna da gl ikogenis sinTezi
- \\ energiis warmoqmna da l ipidebis metabol izmSi monawil eoba
- \\ sekreciul i produqtebis gl ikozil ireba da sul fatireba
- \\ cil is sinTezi da sekreciul i granul ebis Camoyal ibeba

\\ \\ \\ endopl azmur badesa da gol j is aparats Soris nivTierebaTa cvl a mimdinareobs:

- \\ membranul i vakuol ebis meSveobi T
- \\ cil a gadamtanebis meSveobi T

- \\ transportul i buStukebis meSveobiT
- \\ saerTo arxebis meSveobiT

- \\ \\ gol j is aparatis cisternebs Soris nivTierebaTa cvl a mimdinareobs:
- \\ vakuol ebi meSveobiT
- \\ damakavSirebel i arxebis meSveobiT
- \\ cil a gadamtanebis meSveobiT
- \\ transportul i buStukebis meSveobiT

- \\ \\ qvemoT CamoTvl il i struqturebidan romel i mdebareobs didi raodenobiT gol j is aparatis formirebad (cis) zedapirTan?
- \\ vakuol ebi
- \\ gl uvi endopl azmuri badis mil akebi
- \\ citoConCxis el ementebi
- \\ mcire zomis membranul i buStukebi

- \\ \\ qvemoT CamoTvl il i struqturebidan romel i mdebareobs didi raodenobiT gol j is aparatis momwifebul (trans) zedapirTan?
- \\ vakuol ebi
- \\ gl uvi endopl azmuri badis mil akebi
- \\ citoConCxis el ementebi
- \\ mcire membranul i buStukebi

- \\ \\ qvemoT CamoTvl il i struqturebidan romel i warmoiqmneba pirvel adi l izosomebisa da fagosomebis Serwymis Sedegad?
- \\ autofagosomebi
- \\ meoradi l izosomebi
- \\ peroqsisomebi
- \\ narCeni sxoul akebi

- \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis fagosomas?
- \\ STanTqmul uj redgare nivTierebebs Seicavs
- \\ Seicavs araaqtur l izosomur fermentebis
- \\ Seicavs daberebul organel ebs
- \\ birTvSi gadaaqvs hormonebi da zrdis faqtorebi

- \\ \\ qvemoT CamoTvl il i struqturebidan romel Sia tute fosfatazas yvel aze maRal i Semcvel oba?
- \\ gol j is kompl eqsi
- \\ l izosomebi
- \\ peroqsisomebi
- \\ marcvl ovani endopl azmuri bade

- \\ \\ qvemoT CamoTvl il i cil ebidan romel i Sedis l izosomis Semadgenl obaSi?
- \\ JangviTi fosforil ebi fermentebi
- \\ hidrol izuri fermentebi
- \\ motorul i cil ebi
- \\ sinTetazebi

- \\ \\ rogor garemoSia l izosomuri fermentebis aqtivoba optimal uri?
- \\ tute
- \\ mJave
- \\ neitral ur
- \\ garemos pH-s l izosomur fermentebze gavl ena ara aqvs

\\ \\ I izosomis qvemoT CamoTvl il i saxeebidan romel i gamodis gol j is aparatidan?

\\ \\ pirvel adi I izosoma

\\ \\ meoradi I izosoma

\\ \\ narCeni sxoul aki

\\ \\ autofagosoma

\\ \\ ra ewodeba I izosomas, romel ic citopl azmis an organel ebis fragmentebis monel ebas awarmoebis?

\\ \\ pirvel adi I izosoma

\\ \\ meoradi I izosoma

\\ \\ narCeni sxoul aki

\\ \\ autofagosoma

\\ \\ ra ewodeba I izosomas, romel Sic monel ebis procesebi mimdinareobs?

\\ \\ pirvel adi I izosoma

\\ \\ meoradi I izosoma

\\ \\ narCeni sxoul aki

\\ \\ fagosoma

\\ \\ ras gancidis narCeni sxoul aki monel ebis damTavrebis Semdeg?

\\ \\ kvl av gol j is cisternas ubrundeba

\\ \\ endopl azmur bades erwymis

\\ \\ uj redis garss erwymis da SigTavss uj redgare sivrceSi gamohyofs

\\ \\ Cveul ebriv Seucvl el i saxiT rCeba citopl azmaSi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axaiaTebis meorad I izosomas?

\\ \\ uSual od gol j is aparatidan warmoiqmneba

\\ \\ araaqtur hidrol izur fermentebis Seicavs

\\ \\ pirvel adi I izosomis fagosomasTan Serwymis Semdeg warmoiqmneba

\\ \\ pirvel adi I izosomis msgavsad homogenuri SigTavsiT xasiaTdeba

\\ \\ qvemoT CamoTvl il i ubnebidan sad warmoiqmneba peroqsisomis JangviTi fermentebi?

\\ \\ gol j is aparatSi

\\ \\ endopl azmur badeSi

\\ \\ citopl azmaSi

\\ \\ mitoqondriaSi

\\ \\ qvemoT CamoTvl il i Tagan sad sinTezdeba peroqsisomis fermentebi?

\\ \\ Tavisufal ribosomebze

\\ \\ fiqsirebul ribosomebze

\\ \\ mitoqondriis ribosomebze

\\ \\ gol j is aparatSi

\\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo peroqsisomisa da I izosomisaTvis?

\\ \\ erTi gammij navi membranis arseboba

\\ \\ hidrol izuri fermentebis arseboba

\\ \\ JangviTi fermentebis arseboba

\\ \\ wyal badis nei tral izaciis unari

\\ \\ qvemoT CamoTvl il i procesebidan romel s ganicdis peroqsisomul i Jangvis produqtebi?

\\ \\ narCenebis saxiT rCeba citopl azmaSi

\\ narCeni sxeul akis saxiT uj redgare sivrceSi gamoiyofa
\\ qol esterinis sinTezisaTvis gamoiyeneba
\\ gol j is aparatSi gadaitaneba

\\ \\ receptorebiT warmoebul endocitozSi qvemoT CamoTvl il i romel i
struqturis warmoqmnis Semdeg Tavisufl deba kl aTrinis mol ekul ebi da
ubrundeba citol emas?

\\ qobiani buStuki
\\ adreul i endosoma
\\ gviani endosoma
\\ l izosoma

\\ \\ receptorebiT warmoebul endocitozsis procesSi qvemoT CamoTvl il i
struqturidan romel Si scil deba receptori l igands da brundeba
citol emasi?

\\ qobiani buStuki
\\ adreul i endosoma
\\ gviani endosoma
\\ l izosoma

\\ \\ transportis qvemoT CamoTvl il i gzebidan romel i gamoiyeneba birTvidan
citopl azmasi ribosomul i suberTeul ebis gadasatanad?

\\ transmembranul i transporti
\\ birTvis forebis gavl iT
\\ receptorebiT warmoebul i endocitozi
\\ cil a gadamtanebis meSveobiT

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel i gadaitaneba receptorebiT
warmoebul i endocitozIT?

\\ transferini
\\ gl ukoza
\\ acetil qol ini
\\ adrenal ini

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel i Sedis uj redSi pasiuri
difuziIT?

\\ ionebi
\\ gl ukoza
\\ aminomJavebi
\\ Jangbadi

\\ \\ qvemoT CamoTvl il i nivTierebebidan roml isTvis aris gamtari
fosfol ipiduri mol ekul ebis ormagi Sre?

\\ ionebi
\\ gl ukoza
\\ naxSirorJangi
\\ aminomJavebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis ionur arxebS?

\\ didi raodenobiT ionebis transportSi monawil eobs
\\ transportisaTvis energias saWi roebS
\\ erT jerze mxol od erTi ionis transports axorciel ebs
\\ yovel Tvis gaxsnil mdgomareobaSia

\\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo ionuri arxebisa da atf
damokidebul i tumboebisaTvis?

- \\ transmembranul transportSi monawil eoba
- \\ didi raodenobiT ionebis transporti
- \\ atf-azuri aqtivoba
- \\ citopl azmis mxridan e.w. 'WiSkrebis- arseboba

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo ionuri arxebisa da cil a gadamtanebisatvis?

- \\ erTdroul ad didi raodenobiT ionebis transporti
- \\ transmembranul transportSi monawil eoba
- \\ swrafi transportis unari
- \\ transportis procesSi konformaciul i cvl il ebebi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis membranis cil a gadamtanebs?

- \\ ionebsa da sxvadsxva mol ekul ebs membranaSi orive mimarTul ebiT gadaitanen
- \\ ionuri arxebis msgavsad WiSkrebis arsebobiT xasiaTdebian
- \\ transportis procesSi konformaciul cvl il ebebs ar ganicdian
- \\ atf-azuri aqtivobiT xasiaTdebian

\\ \\ \\ transportis qvemoT CamoTvl il i saxeebidan romel iT xorciel deba ZiriTadad nivTierebaTa gadatana nervul i sistemis kapil arebis endoTel ur uj redebSi?

- \\ transmembranul i transporti
- \\ pinocitozi
- \\ fagocitozi
- \\ receptorebiT warmoebul i endocitozi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis cil a gadamtanebiT ganxorciel ebul transports?

- \\ yvel a sxva saxis transportze ufro swrafad xorciel deba
- \\ ufro swrafia vidre ionuri arxebiT ganxorciel ebul i transporti
- \\ sxva saxis transportTan SedarebiT bevrad ufro nel ia
- \\ ufro swrafia vidre tumboebiT ganxorciel ebul i transporti

\\ \\ \\ qvemoT CamoTvl il i nivTiererebebidan roml is transporti xorciel deba cil a gadamtanebis meSveobiT?

- \\ Jangbadi
- \\ Sardovana
- \\ gl ukoza
- \\ wyl is mol ekul a

\\ \\ \\ qvemoT CamoTvl il i transportul i cil ebidan romel i ekuTvnis cil a gadamtanebs?

- \\ natriumis arxi
- \\ gl ukozis gadamtani
- \\ natrium-kal iumis tumbo
- \\ kal ciumis tumbo

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis ofsoninebs?

- \\ membranis Sewebebis cil ebia (adheziuri mol ekul ebi)
- \\ baqteriul i membranul i receptorebia
- \\ ucxo agentis fagocitozisaTvis mzadeba
- \\ mofagocite uj redis receptorul i cil ebia

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel s warmoadgens ofsonizacia?

- \\ fagocitozis nairsaxeobaa

\\ baqteriis (an sxva ucxo nivTierebis) fagocitozisaTvis mzadebis procesia
\\ receptorebiT warmoebul i endocitozis nairsaxeobaa
\\ uj redSiga transportis formaa

\\ \\ \\ qvemoT CamoTvl il i xerxebidan roml iT aRwevs uj redSi qol esterini?
\\ \\ fagocitozi
\\ \\ pinocitozi
\\ \\ receptorebiT gaSual ebul i endocitozi
\\ \\ aqtiuri transporti

\\ \\ \\ qvemoT CamoTvl il Tagan romel i gziT xorciel deba uj redsa da garemos
Soris maRal mol ekul uri nivTierebebis cvl a?
\\ \\ ionuri arxebiT
\\ \\ cil a gadamtanebiT
\\ \\ egzocitoziT
\\ \\ aqtiuri transportiT

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i faravs qobiani ('arSiiani~)
buStukebis zedapirs citopl azmis mxridan?
\\ \\ keratini
\\ \\ koneqsini
\\ \\ kl atrini
\\ \\ kal seqvestrini

\\ \\ \\ qvemoT CamoTvl il Tagan romel i gziT xorciel deba uj redsa da garemos
Soris maRal mol ekul uri nivTierebebis cvl a?
\\ \\ ionuri arxebiT
\\ \\ cil a gadamtanebiT
\\ \\ endocitoziT
\\ \\ aqtiuri transportiT

\\ \\ \\ receptorebiT warmoebul endocitozSi rod is Sordeba STanTqmul i
nivTiereba Tavis receptors?
\\ \\ qobian buStukSi kl atrinis mocil ebande
\\ \\ qobian buStukSi kl atrinis mocil ebis Semdeg
\\ \\ adreul endosomaSi
\\ \\ gvian endosomaSi

\\ \\ \\ receptorebiT warmoebul endocitozis procesSi qvemoT CamoTvl il Tagan
romel i struqtura ukavSirdeba l izosomas?
\\ \\ qobiani ormo
\\ \\ qobiani buStuki
\\ \\ adreul i endosoma
\\ \\ gviani endosoma

\\ \\ \\ uj redul i transportis qvemoT CamoTvl il i saxeebidan romel i ekuTvnis
endocitozS?
\\ \\ difuzia
\\ \\ osmosi
\\ \\ pinocitozi
\\ \\ pasiuri transporti

\\ \\ \\ qvemoT CamoTvl il i struqturidan romel Si asrul ebs mikrofil amentebi
sayrden funqcias?
\\ \\ wamwami
\\ \\ Sol ti

- \ mikroxao
- \ naoWi

\ \ \ qvemoT CamoTvl il i struqturēbidan romel ze mimdinareobs aqtinisa da tubul inis mol ekul ebis sinTezi?

- \ \ centriol ebi
- \ Tavisufal i pol isomebi
- \ \ mitoqondriebi
- \ \ marcvl ovani endopl azmuri bade

\ \ \ qvemoT CamoTvl il i cil ebidan roml is defeqti iwvevs uZravi wamwamis sindromis ganviTarebas?

- \ \ kinezini
- \ \ miozini
- \ \ speqtrini
- \ \ dineini

\ \ \ qvemoT CamoTvl il Tagan romel i ganapirobebs Sual eduri fil amentebis saxeobaspeci fiurobas?

- \ \ uj redSida transportis Tavisebureba
- \ \ mikromil akebisa da mikrofil amentebis gansxvavebul i Semcvel oba
- \ \ sxvadasxva qsovil Si sxvadasxvanairi meqanikuri datvirTvis arseboba
- \ \ pol imerizaciis Tavisebureba

\ \ \ qvemoT CamoTvl il i funqciebidan romel ia saerTo Sual eduri fil amentebisa da mikromil akebisaTvis?

- \ \ transportSi monawil eoba
- \ \ motorul i cil ebis arseboba
- \ \ uj redis sayrdenis Seqmna
- \ \ JangvaSi monawil eoba

\ \ \ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis Sual edur fil amentebis?

- \ \ sxvadasxva uj redSi Tanabradaa ganawil ebul i
- \ \ sayrden funqcias asrul ebs
- \ \ monawil eobs uj redSida transportSi
- \ \ monawil eobs gayofis procesSi

\ \ \ qvemoT CamoTvl il i uj redebidan romel Si gv xvdeba desmini?

- \ \ astroci tebi
- \ \ mioci tebi
- \ \ epiTel uri uj redebi
- \ \ makro fagebi

\ \ \ qvemoT CamoTvl il i uj redebidan romel Si gv xvdeba vimentini?

- \ \ astroci tebi
- \ \ makro fagebi
- \ \ epiTel uri uj redebi
- \ \ mioci tebi

\ \ \ qvemoT CamoTvl il i Sual eduri fil amentebidan romel i gv xvdeba epiTel ur uj redebSi?

- \ \ gl iuri fil amentebi
- \ \ desmini
- \ \ citokeratini
- \ \ vimentini

\\ \\ qvemoT CamoTvl il i cil ebidan romel i uzrunvel yofs aqtinis fil amentebis badisebr ganl agebas uj redSi?

\\ grZel i cil ebi

\\ \\ mokl e cil ebi

\\ \\ tubul ini

\\ \\ miozini

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i uzrunvel yofs aqtinis fil amentebis konebad ganl agebas uj redSi?

\\ \\ grZel i cil ebi

\\ \\ mokl e cil ebi

\\ \\ tubul ini

\\ \\ miozini

\\ \\ \\ qvemoT CamoTvl il i struqtirebidan romel i monawil eobs qromosomebis transportSi?

\\ \\ mikromil akebi

\\ \\ mikrofil amentebi

\\ \\ Sual eduri fil amentebi

\\ \\ mikromil akebi da Sual eduri fil amentebi

\\ \\ \\ qvemoT CamoTvl il i struqtirebidan romel i asrul ebs mxol od sayrden funqcias?

\\ \\ mikromil akebi

\\ \\ mikrofil amentebi

\\ \\ Sual eduri fil amentebi

\\ \\ mikromil akebi da mikrofil amentebi

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis mikrofil amentebis?

\\ \\ qmnis qsel s uj redis periferiul nawil ebSi

\\ \\ iqmneba tubul inis mol ekul ebiT

\\ \\ mxol od mdgradi saxiT arsebobs

\\ \\ uzrunvel yofs qromosomebis gadaadgil ebas

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel s aqvs aqsonemaSi atf-azuri aqtivoba?

\\ \\ tubul ins

\\ \\ neqsins

\\ \\ dineins

\\ \\ kinezins

\\ \\ \\ qvemoT CamoTvl il i struqtirebidan romel i monawil eobs mitozuri uj redis irgvl iv SekumSvis rgol is Camoyal ibebaSi?

\\ \\ centriol ebi

\\ \\ Sual eduri fil amentebi

\\ \\ mikrofil amentebi

\\ \\ mikromil akebi

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i ganapi robebs wamwamisa da Sol tis moZraobas?

\\ \\ citopl azmuri dineini

\\ \\ aqsonemuri dineini

\\ \\ rogorc citopl azmuri, ise aqsonemuri dineini

\\ \\ kinezini

\\ \\ \\ qvemoT CamoTvl il i struqturedan romel i Sedis aqsonemis
Semadgenl obaSi?

- \\ \\ bazal uri sxeul akebi
- \\ \\ mikrofil amentebi
- \\ \\ Sual eduri fil amentebi
- \\ \\ mikromil akebi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis bazal ur
sxeul aks?

- \\ \\ mikroxaobis fuZeSi mdebareobs
- \\ \\ wamwamisa da Sol tis aqsonemis warmoqmnaSi monawil eobs
- \\ \\ misi zedapiris mimaRT radial urad mimaRTul damouki debel mikromil akebs
warmoqmnis
- \\ \\ gv xvdeba yvel a uj redSi

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo centriol isa da bazal uri
sxeul akisaTvis?

- \\ \\ central uri mikromil akebis arseboba
- \\ \\ membranul i Seneba
- \\ \\ mikrofil amentebis organizaciaSi monawil eoba
- \\ \\ mikromil akebis organizaciaSi gansxvavebul i gziT monawil eoba

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis bazal ur
sxeul aks?

- \\ \\ mikromil akebis 9 wyvil isgan Sedgeba
- \\ \\ Sual eduri fil amentebiT iqmneba
- \\ \\ mikromil akebs arsebul i mikromil akebis dagrZel ebis gziT warmoqmnis
- \\ \\ monawil eobs uj redis simZimis centris SeqmnaSi

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i ar aris saerTo bazal uri
sxeul akisa da centriol isaTvis?

- \\ \\ cil indris forma
- \\ \\ mikromil akebis periferiul i sameul ebis arseboba
- \\ \\ ori central uri mikromil akis arseboba
- \\ \\ mikromil akebis organizaciaSi monawil eoba

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs uj rdis centri?

- \\ \\ warmoadgens mikromil akebis saorganizacio centrs
- \\ \\ monawil eobs makromol ekul ebis transportSi
- \\ \\ monawil eobs mikrofil amentebis polimerizaciaSi
- \\ \\ gayofis win ar ganicdis gaormagebas

\\ \\ \\ aqsonSi retrogradul (aRma) transports ganapirobebs:

- \\ \\ kinezini
- \\ \\ citoplazmuri dineini
- \\ \\ aqsonemuri dineini
- \\ \\ tubulini

\\ \\ \\ centriol is SeqmnaSi monawil eobs:

- \\ \\ aramdgradi mikromil akebi
- \\ \\ mikromil akebis wyvil ebi
- \\ \\ mikromil akebis sameul ebi (tripl etebi)
- \\ \\ bazal uri sxeul akebi

\\ \\ \\ qvemoT CamoTvl il i moZraobidan romel Si monawil eobs kinezini?

- \\ \\ endocitozuri buStukebis gadaadgil eba l izosomebisaken

\\ retrogradul i (aRma) transporti aqsonSi
\\ transportul i buStukebis moZraoba endopl azmuri badi dan gol j is
aparatisaken
\\ Sol tis moZraoba

\\ \\ qvemoT CamoTvl il i moZraobidan romel Si monawil eobs dineini?
\\ transportul i buStukebis gadatana endopl azmuri badi dan gol j is
aparatiSi
\\ swrafi aqsonuri transporti
\\ wamwamebis moZraoba
\\ sekreciul i vakuol ebis gadatana gol j is aparatidan pl azmur membranastan

\\ \\ qvemoT CamoTvl il i struqturibidan romel i ar Seicavs mdgrad
mikromil akebs?
\\ spermatozoidis kudi
\\ nervul i uj redis morCebi
\\ gayofis TiTistara
\\ eriTrocity

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis mdgradi
mikromil akebis daSl as?
\\ uj redebSi sistematiurad mimdinareobs
\\ uj redis sikvdil s iwvevs
\\ aranair gavl enas ar axdens uj redis cxovel myofel obaze
\\ tubul inis mol ekul ebis raodenobrivi matebis ZiriTadi formaa

\\ \\ qvemoT CamoTvl il i cil ebidan roml iT aris agebul i mikromil akebi?
\\ tubul inis al fa da beta suberTeul ebiT
\\ aqtinis mol ekul ebiT
\\ speqtrinis al fa da beta suberTeul ebiT
\\ dineiniT

\\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo mitoqondriisa da
peroqsisomisaTvis?
\\ ori membranis arseboba
\\ JangviTi fermentebis arseboba
\\ nukl einis mJavebis arseboba
\\ ribosomebis arseboba

\\ \\ qvemoT CamoTvl il i struqturul -funqciuri wyvil ebidan romel ia swori?
\\ centriol i _ birTvakis saorganizacio centri
\\ mitoqondria _ aerobul i da anaerobul i Jangva
\\ gol j is aparati _ cil ebis sinTezi
\\ peroqsisoma _ organul i nivTierebebis l izisi

\\ \\ qvemoT CamoTvl il i struqturul -funqciuri wyvil ebidan romel ia swori:
\\ mikromil akebi - JangviTi procesebi
\\ peroqsisoma _ energiisa da siTbos warmoqmna
\\ ribosoma _ cil is daSl a
\\ endopl azmuri bade _ kal ciumis depo

\\ \\ fosfol ipidebisa da integral uri cil ebis wyaros uj redSi warmoadgens:
\\ gol j is aparati
\\ endopl azmuri bade
\\ mitoqondria
\\ ribosomebi

\\ \\ qvemoT CamoTvl il i cil ebidan romel i ar igeba fiqsirebul pol isomebze?
\\ \\ membranis integral uri
\\ \\ l izosomis fermentebi
\\ \\ histonuri
\\ \\ saeqsporto

\\ \\ qvemoT CamoTvl il i cil ebidan romel i igeba Tavisufal pol isomebze?
\\ \\ natrium-kal iumis tumbo
\\ \\ l aminebi
\\ \\ natriumis arxi
\\ \\ kal ciumis arxi

\\ \\ qvemoT CamoTvl il i procesebidan romel ze miuTitebs citopl azmaSi narCeni
sxeul ebis didi raodenobiT dagroveba?
\\ \\ uj redis sinTezuri aqtivobis daTrgunva
\\ \\ l izosomuri monel ebis gaaqtiveba
\\ \\ uj redis dabereba
\\ \\ gol j is aparati funqciis gaaqtiveba

\\ \\ qvemoT CamoTvl il i organel ebidan romel i agrZel ebs funqcionirebas
uj redis sikvdil is Semdegac?
\\ \\ endopl azmuri bade
\\ \\ l izosoma
\\ \\ ribosoma
\\ \\ peroqsisoma

\\ \\ qvemoT CamoTvl il i struqturebidan romel i gv xvdeba yvel aze iSviaTad
uj redSi?
\\ \\ birTvi
\\ \\ mitoqondria
\\ \\ endopl azmuri bade
\\ \\ wamwami

\\ \\ qvemoT CamoTvl il i struqturebidan romel i gv xvdeba adami anis organizmis
yvel a cocxal uj redSi?
\\ \\ birTvi
\\ \\ birTvaki
\\ \\ mikroxao
\\ \\ mikrofil amenti

\\ \\ qvemoT CamoTvl il i organel ebidan roml is daSl a gamoiwvevs mi tozis
SeCerebas?
\\ \\ mikromil akebis
\\ \\ mikrofil amentebis
\\ \\ Sual eduri fil amentebis
\\ \\ sqel i fil amentebis

\\ \\ qvemoT CamoTvl il i cvl il ebebidan romel i gamoiwvevs mi tozis SeCerebas
sinTezis fazaSi?
\\ \\ purinis da pirimidinis fuZeebis sinTezis SeCereba
\\ \\ mikromil akebis depol imerizacia
\\ \\ mikrofil amentebis pol imerizacia
\\ \\ birTvakis cil ebis sinTezis SeCereba

\\ \\ qvemoT CamoTvl il i cil ebidan romel i monawil eobs birTvis garsis aRdgenaSi mitozis bol os?

\\ I amini

\\ miozini

\\ kinezini

\\ histoni

\\ \\ qvemoT CamoTvl il i procesebidan roml is arsebobis maCvenebel ia uj redSi euqromatul i birTvis arseboba?

\\ \\ atf-s sinTezis gaZl iereba

\\ \\ dabal i transkripciul i aqtivoba

\\ \\ cil is aqtiuri sinTezi

\\ \\ proteol izis gaZl iereba

\\ \\ qvemoT CamoTvl il i procesebidan roml is meSveobiT akontrol ebs uSual od birTvi uj redis funqciur aqtivobas?

\\ \\ uj redis gayofa

\\ \\ dnm-s da rnm-s sinTezi

\\ \\ cil is sinTezis regul acia

\\ \\ uj redSorisi urTierTbis koordinacia

\\ \\ \\ daasaxel eT qromatinis organizaciis swori Tanmi mdevroba.

\\ \\ \\ sol enoidi - dnm- - nukl eosoma - qromosoma

\\ \\ \\ nukl eosoma - dnm - histoni - qromosoma

\\ \\ \\ dnm- nukl eosoma- sol enoidi- qromosoma

\\ \\ \\ qromosoma- histoni- dnm- sol enoidi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis perinukl eur sivrces?

\\ \\ birTvis garsis or membranas Soris mdebareobs

\\ \\ \\ gol j is cisternis gagrZel ebaa

\\ \\ \\ ukavSirdeba forebs

\\ \\ \\ Seicavs I aminebis bades

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel s ukavSirdeba birTvis garsis gareTa membrana?

\\ \\ \\ gol j is aparati

\\ \\ \\ birTvaki

\\ \\ \\ endopl azmuri bade

\\ \\ \\ pl azmuri membrana

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis birTvis fors?

\\ \\ \\ birTvis garsis SigniTa membranaSi mdebareobs

\\ \\ \\ birTvsa da citopl azmas Soris akontrol ebs makromol ekul ebis cvl as

\\ \\ \\ iqmneba koneqsonebi T

\\ \\ \\ centrSi ribosomebis suberTeul s Seicavs

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis birTvis firfitas?

\\ \\ \\ gamoyofs kariopl azmas citopl azmisagan

\\ \\ \\ Seicavs birTvul fil amentebis _ I aminebs

\\ \\ \\ forebis midamoSi mdebareobs

\\ \\ \\ monawil eobs birTvul i cil ebis sinTezSi

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel s gaaCnia birTvul i l okal izaciis sasignal o Tanmi mdevroba?

- \\ kinezini
- \\ tubulini
- \\ dineini
- \\ lamini

\\ \\ \\ qvemoT CamoTvl il Tagan romel i uzrunvel yofs sainformacio rnm-s birTvis forSi gasvl as?

- \\ laminebisagan Seqmnil i bade
- \\ foris kompl eqsis central uri xvrel isa da rnm-s mol ekul is Sesabamisi zomebi
- \\ special uri cil a-receptorebi
- \\ birTvis SigniTa membranaSi arsebul i cil a gadamtanebi

\\ \\ \\ qvemoT CamoTvl il i receptorul i ubnebidan romel i Tanmimdevroba uzrunvel yofs forebSi rnm-s mol ekul ebis transports?

- \\ birTvul i l okal izaciis sasignal o Tanmimdevroba
- \\ saeqsporto sasignal o Tanmimdevroba
- \\ samizne Tanmimdevroba
- \\ topogenuri Tanmimdevroba

\\ \\ \\ qvemoT CamoTvl il i Tvissebebidan romel i axasiaTebis birTvakis saorganizacio centrs?

- \\ birTvaktan asocierebul i qromatinis nawil ia
- \\ aqvs kodi ribosomul i rnm-sTvis
- \\ akodirebs birTvul laminebs
- \\ isi eba mitozis dros

\\ \\ \\ qvemoT CamoTvl il i struqturebidan sad xdeba ribosomul i rnm-s sintezi?

- \\ Tavisufal i pol isomebi
- \\ birTvis garsi
- \\ birTvaki
- \\ marcvl ovani endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i Tavisburebebidan romel i axasiaTebis birTvakis saorganizacio centrs?

- \\ adamianis uj redebSi yvel a qromosomaSi mdebareobs
- \\ yovel Tvis euqromatiniT aris warmodgenil i
- \\ cnobil ia birTvakis heteroqromatinis saxel iT
- \\ transportul i rnm-s asagebad saWiro informacias Seicavs

\\ \\ \\ qvemoT CamoTvl il i Tavisburebebidan romel i axasiaTebis birTvakis fibril ur nawil s?

- \\ ribosomul i rnm- s transkripsiis ubania
- \\ birTvakis heteroqromatinis nawil ia
- \\ ribosomul i suberteul ebis warmoqmnis ubania
- \\ ribonukl eoproteinebis granul ebiT iqmneba

\\ \\ \\ qvemoT CamoTvl il i Tavisburebebidan romel i axasiaTebis birTvakis granul ur nawil s?

- \\ birTvakis saorganizacio centria
- \\ ribosomul i suberteul ebis warmoqmnis ubania
- \\ fibril uri Seneba aqvs
- \\ birTvakis heteroqromatinis nawil ia

\\ \\ \\ birTvakis qvemoT CamoTvl il i ubnebidan sad mimdinareobs ribosomul i rnm-s transkripsiis procesi?

- \\ granul ur nawil Si
- \\ birTvakis heteroqromatinSi
- \\ fibril ur nawil Si
- \\ birTvakis periferiaze

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis birTvakis saorganizacio centrs?

- \\ birTvakis granul ur nawil Si mdebareobs
- \\ birTvakis heteroqromatinis nawil ia
- \\ ribosomul i rnm-s asageb informacias Seicavs
- \\ ganapirobebs birTvakis mkveTr bazofil ur SeRebvas

\\ \\ \\ qvemoT CamoTvl il i struqturibidan romel i iTvl eba qromatinis struqturul erTeul ad eukariotul uj redSi?

- \\ qromosoma
- \\ nukl eosoma
- \\ histoni
- \\ sol enoidi

\\ \\ \\ qvemoT CamoTvl il i histonebis tipebidan romel i ukavSirdeba nukl eosomebis SemaerTebel ubnebs?

- \\ H_{2a}
- \\ H_{2b}
- \\ H_5
- \\ H_4

\\ \\ \\ qvemoT CamoTvl il i struqturibidan romel i akavSirebs erTmaneTTan gaormagebul qromosomaSi dnm-s j a\\vebs?

- \\ centrosoma
- \\ histoni
- \\ lamini
- \\ centromeri

\\ \\ \\ qvemoT CamoTvl il Tagan risi maCvenebel ia birTvSi ramdenime birTvakis arseboba?

- \\ cil is sinTezis gaZl ereba
- \\ naxSirwyl ebis sinTezis gaZl iereba
- \\ atf-s gaZl ierebul i warmoqmna
- \\ proteol izis gaaqtiveba

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs mitozis dros birTvakis gaqrobas?

- \\ laminebis badis daSl a
- \\ ribosomul i cil ebis nakl eboba
- \\ dnm-s srul i spiral izacia
- \\ birTvis garsis daSl a

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs birTvis garsis daSl as mitozis dros?

- \\ birTvul i firfitis daSl a
- \\ dnm-s spiral izacia
- \\ gayofis TiTistaras warmoqmna
- \\ birTvakis gaqroba

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs profazis bol os birTvis daSl as?

- \ I aminebis fosforil eba, depol imerizacia da daSI a
- \ I aminebis pol imerizacia
- \ Sual eduri fil amentebisa da mikrofil amentebis depol imerizacia
- \ birTvakis gaqroba

- \ \ qvemoT CamoTvl il i procesebidan romel i ganapirobebs birTvis garsis daSI as mraVal wril buStukad?
- \ gromatinis mzardi kondensacia
- \ birTvakis gaqroba
- \ fibrozul i firfitis daSI a
- \ gayofis TiTistaras warmoqmna

- \ \ qvemoT CamoTvl il i cvl il ebebidan romel i ganapirobebs birTvakis gaqrobas?
- \ gromatinis ukiduresi kondensacia
- \ gayofis TiTistaras warmoqmna
- \ fibrozul i firfitis daSI a
- \ birTvis garsis gaqroba

- \ \ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS Rerovani uj redebs?
- \ maRal diferencirebul i uj redebia
- \ aqVT bl asttransformaciis unari
- \ maRal i prol iferaciul i aqtivobiT xasiaTdeba
- \ didi raodenobiT gvxddeba nervul da gul is kunTovan qsovil Si

- \ \ uj redis diferenciaciis xarixis matebasTan erTad ra cvl il ebas ganicdis prol iferaciul i aqtivoba?
- \ mcirdeba
- \ izrdeba
- \ ar icvl eba
- \ zogierT uj redSi matul obs, zogierT uj redSi kl ebul obs

- \ \ qvemoT CamoTvl il i diferencirebul i uj redebidan romel s ara aqvs arc gamravl ebis unari da arc Rerovani uj redebi?
- \ RviZl is
- \ nawl avis Semwovi
- \ hormonwarmomqnel i
- \ gul is kunTovani

- \ \ qvemoT CamoTvl il i diferencirebul i uj redebidan romel s ara aqvs arc gamravl ebis unari da arc Rerovani uj redebi?
- \ didi al veol ociti
- \ nervul i uj redi
- \ yaeTnovani enterociti
- \ eriTroцити

- \ \ qvemoT CamoTvl il i fermentebidan roml ebi iwveven apoptozis uSual o iniciacias?
- \ fosfatazebi
- \ kaspazebi
- \ endonukl eazebi
- \ hidrol azebi

- \ \ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS apoptozs?
- \ qsovil ebis dazianebis Sedegad viTardeba

- \\ anTebis Tanxl ebiT mimdinareobs
- \\ citopl azmis organel ebis rRvevas ganapirobebs
- \\ piknozuri birTvis warmomniT xasiaTdeba

- \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis apoptozs?
- \\ \\ uj redis kvdomis SemTxveviTi formaa
- \\ monawil eobs mraval uj rediani organizmis embrionul i ganviTarebis procesSi
- \\ \\ ar saWiroebs raime special uri apoptozuri signal is arsebobas
- \\ \\ umetes SemTxvevaSi anTebastan erTad mimdinareobs

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs uSual od gayofis procesSi?
- \\ \\ endopl azmuri bade
- \\ \\ centriol i
- \\ \\ ribosoma
- \\ \\ birTvaki

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs antigenis procesingSi antigenwarmdgen uj redSi?
- \\ \\ endopl azmuri bade
- \\ \\ peroqsisoma
- \\ \\ centriol i
- \\ \\ ribosoma

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel Si xdeba virusis cil ebis daSi a peptidebad antigenwarmdgen uj redSi?
- \\ \\ l izosoma
- \\ \\ peroqsisoma
- \\ \\ proteasoma
- \\ \\ autofagosoma

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia didi raodenobiT ruxi cximovani qsovil is adipocitSi?
- \\ \\ l izosoma
- \\ \\ endopl azmuri bade
- \\ \\ mitoqondria
- \\ \\ peroqsisoma

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i mdebareobs Tirkml is proqsimal uri kl aknil i mil akis amomfeni epiTel uri uj redebis bazal ur nakecebSi?
- \\ \\ endopl azmuri bade
- \\ \\ mitoqondria
- \\ \\ l izosoma
- \\ \\ peroqsisoma

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia didi raodenobiT kuWis fundusis jirkvl ebis pariesul uj redebSi?
- \\ \\ gol j is aparati
- \\ \\ l izosoma
- \\ \\ mitoqondria
- \\ \\ proteasoma

- \\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia Zal ian kargad ganviTarebul i fibroblastSi?

- \\ I izosoma
- \\ peroqsisoma
- \\ mitoqondria
- \\ endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i gv xvdeba Tirkml is distal uri kl aknil i mil akis bazal ur invaginaciebSi?

- \\ mitoqondria
- \\ I izosoma
- \\ peroqsisoma
- \\ centriol i

\\ \\ \\ qvemoT CamoTvl il i struqtorebidan romel ia didi raodenobiT al veol aTaSorisi kapil arebis endoTel ur uj redebSi?

- \\ sekreciul i granul ebi
- \\ pinocitozuri buStukebi
- \\ fagocitozuri buStukebi
- \\ cximis wveTebi

\\ \\ \\ qvemoT CamoTvl il i struqtorebidan romel i gv xvdeba Tirkml is proqsimal uri kl aknil i mil akis apikal ur zedapirze?

- \\ wamwami
- \\ stereocil ia
- \\ cocxisebri yaeTani
- \\ invaginaciebi

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel ia yvel aze aqtiuri Tirkml is proqsimal uri kl aknil i mil akis amomfeni epiTel uri uj redebis citopl azmaSi?

- \\ cil is sinTezi
- \\ proteol izi
- \\ uj redSida transporti
- \\ atf-s sinTezi

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i uqmni s sayrdens ganivzol ian miofibril as?

- \\ sqel i fil amentebi
- \\ Txel i fil amentebi
- \\ Sual eduri fil amentebi
- \\ mikromil akebi

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia didi raodenobiT miokardiumis SemkumSav kardiomioci tebSi?

- \\ I izosoma
- \\ mitoqondria
- \\ peroqsisoma
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i Sual eduri fil amentebidan romel i uqmni s sayrdens sayl apavis amomfen epiTel ur uj redebs?

- \\ desmini
- \\ citokeratini
- \\ vimentini
- \\ vinkul ini

\\ \\ \\ qvemoT CamoTvl il i motorul i cil ebidan roml is meSveobiT gadaadgil deba sinafsuri buStukebi aqsonSi?

- \\ dineini
- \\ miozini
- \\ kinezini
- \\ aqtini

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia upiratesad ganviTarebul i kanis I angerhansis uj redebSi?

- \\ \\ peroqsisoma
- \\ \\ endopl azmuri bade
- \\ \\ l izosoma
- \\ \\ gol j is aparati

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia upiratesad ganviTarebul i l imfuri kvanZis dendritul uj redebSi?

- \\ \\ peroqsisoma
- \\ \\ endopl azmuri bade
- \\ \\ l izosoma
- \\ \\ gol j is aparati

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia upiratesad ganviTarebul i osteokl astebSi?

- \\ \\ l izosomebi
- \\ \\ peroqsisomebi
- \\ \\ endopl azmuri bade
- \\ \\ mitoqondriebi

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia upiratesad ganviTarebul i osteokl astebSi?

- \\ \\ peroqsisomebi
- \\ \\ l izosomebi
- \\ \\ gl uvi endopl azmuri bade
- \\ \\ proteasoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia yvel aze kargad ganviTarebul i neitrofil ur l eikocitSi?

- \\ \\ ribosoma
- \\ \\ gol j is aparati
- \\ \\ mitoqondria
- \\ \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia yvel aze kargad ganviTarebul i osteobl astSi?

- \\ \\ marcvl ovani endopl azmuri bade
- \\ \\ umarcvl o endopl azmuri bade
- \\ \\ gol j is aparati
- \\ \\ mitoqondria

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel s Seicavs didi raodenobiT uj redi, romel ic MHC II-iT awarmoebis antigenis wardgenas?

- \\ \\ mitoqondria
- \\ \\ l izosoma
- \\ \\ peroqsisoma
- \\ \\ proteasoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia didi raodenobiT Tirkmel zeda j irkvl is qerqovani nivTierabis gorgl ovani zonis uj redebSi?

- \\ mitoqondria
- \\ l izosoma
- \\ marcvl ovani endopl azmuri bade
- \\ peroqsisoma

- \\ \\ qvemoT CamoTvl il i nivTierebebidan roml is grovebia didi raodenobiT Tirkmel zeda jirkvl is qerqovani nivTierebis gorgl ovani zonis uj redebSi?
- \\ gl ikogenis
- \\ cximis
- \\ pigmentis
- \\ cil ebis

- \\ \\ qvemoT CamoTvl il i organel ebidan romel ia didi raodenobiT ruxi cximovani qsovil is adipocitSi?
- \\ l izosoma
- \\ endopl azmuri bade
- \\ mitoqondria
- \\ peroqsisoma

- \\ \\ qvemoT CamoTvl il Tagan romel ia didi raodenobiT kanis mel anocitebSi?
- \\ cximis wveTebi
- \\ gl ikogenis granul ebi
- \\ pigmentis CanarTebi
- \\ cil ovani CanarTebi

- \\ \\ qvemoT CamoTvl il i naerTebidan romel s warmoadgens mel aninis granul ebi kanis mel anocitebSi?
- \\ sekreciul granul ebs
- \\ CanarTebs
- \\ pinocitozur buStukebs
- \\ fagosomebs

- \\ \\ qvemoT CamoTvl il i organoebidan roml is peroqsisomebi monawil eobs toqsikuri nivTierebebis gauvnebel yofaSi?
- \\ fil tvi
- \\ Tirkmel i
- \\ kuWi
- \\ gul i

- \\ \\ qvemoT CamoTvl il i organoebidan roml is peroqsisomebi monawil eobs organizmSi warmoqmnil i toqsikuri nivTierebebis gauvnebel yofaSi?
- \\ pankreasi
- \\ el enTa
- \\ Tirkmel zeda jirkval i
- \\ RviZl i

- \\ \\ qvemoT CamoTvl il i organel ebidan romel i gvxxvdeba saSvil osnos l ul is amomfeni epiTel iumis zedapirze?
- \\ Sol ti
- \\ mikroxaoebi
- \\ wamwamebi
- \\ cocxisebri yaeTani

- \\ \\ wvri l i nawl avis epiTel uri firfritis qvemoT CamoTvl il i uj redebidan romel ia mitozurad yvel aze ufro aqtiuri?
- \\ fial isebri

- \\ yaeTnovani
- \\ paneTis
- \\ uyaetno

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i xasiaTdeba maRal i prol iferaciul i aqtivobIT?

- \\ neironi
- \\ kardiomiociti
- \\ hepatociti
- \\ eriTrociti

\\ \\ \\ nervul i uj redis qvemoT CamoTvl il i organel ebidan roml is danaxva SeiZl eba sinaTl is mikroskopSi?

- \\ gol j is aparati
- \\ mitogondria
- \\ l izosoma
- \\ endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i ionuri arxebidan roml is gaxsna ganapirobebs ConCxis kunTis membranis depol arizaciis dawyebas?

- \\ natriumis
- \\ kal iumis
- \\ kal ciumis
- \\ wyal badis

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel s ar gaaCnia prol iferaciul i aqtivoba?

- \\ neironi
- \\ uyaetno uj redi
- \\ hepatociti
- \\ gl uvi miociti

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel s ar gaaCnia prol iferaciul i aqtivoba?

- \\ gl uvi miociti
- \\ kardiomiociti
- \\ hepatociti
- \\ l imfociti

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel s ar gaaCnia prol iferaciul i aqtivoba?

- \\ proeritrobl asti
- \\ monobl asti
- \\ l imfobl asti
- \\ eriTrociti

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i qmnis nisl is bazofil ur nivTierebas?

- \\ marcvl ovani endopl azmuri bade
- \\ l izosoma
- \\ gol j is aparati
- \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel ia ganpirobepul i membranal i integral uri cil ebis mozaikuri ganl agebit?

- \\ sisqe

- \\ asimetriul oba
- \\ SerCeviT ganvl adoba
- \\ receptorul i T visebebi

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel ia membranul i Senebis?

- \\ l izosoma
- \\ mikromil aki
- \\ mikrofil amenti
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel ia membranul i Senebis?

- \\ peroqsisoma
- \\ centriol i
- \\ mikromil aki
- \\ Sual eduri fil amenti

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel ia membranul i Senebis?

- \\ mitoqondria
- \\ uj redis centri
- \\ bazal uri sxeul aki
- \\ mikromil aki

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel i ar aris membranul i Senebis?

- \\ l izosoma
- \\ mitoqondria
- \\ endopl azmuri bade
- \\ centriol i

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel i ar aris membranul i Senebis?

- \\ mitoqondria
- \\ l izosoma
- \\ peroqsisoma
- \\ bazal uri sxeul aki

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel i ar aris membranul i Senebis?

- \\ endopl azmuri bade
- \\ gol j is aparati
- \\ mikrofil amenti
- \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel i ar aris membranul i Senebis?

- \\ gol j is aparati
- \\ centriol i
- \\ l izosoma
- \\ birTvis garsi

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtur ebidan romel ia membranul i Senebis?

- \\ gol j is aparati

- \\ bazal uri sxoul aki
- \\ centriol i
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs energiis warmoqmnaSi?

- \\ endopl azmuri bade
- \\ gol j is aparati
- \\ mitoqondria
- \\ l izosoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs daSl is procesSi?

- \\ l izosoma
- \\ mitoqondria
- \\ peroqsisoma
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs cil is sinTezSi?

- \\ gol j is aparati
- \\ l izosoma
- \\ peroqsisoma
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i struqtorebidan romel i monawil eobs citopl azmuri cil ebis daSl aSi?

- \\ gol j is aparati
- \\ proteasoma
- \\ centriol i
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs uj redSi warmoqmnil i nivTierebebis daxarisxebaSi?

- \\ ribosoma
- \\ l izosoma
- \\ mitoqondria
- \\ gol j is aparati

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtorebidan romel i monawil eobs uj redis simZimis centris SeqmnaSi?

- \\ mitoqondria
- \\ l izosoma
- \\ peroqsisoma
- \\ uj redis centri

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqtorebidan romel i monawil eobs Jangvis procesSi?

- \\ ribosoma
- \\ centriol i
- \\ peroqsisoma
- \\ l izosoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel Si warmoqmneba l izosomebi?

- \\ endopl azmuri bade
- \\ gol j is aparati
- \\ mitoqondria
- \\ ribosoma

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs gol j is aparati?
\\ gayofis TiTistaras warmoqmna
\\ uj redidan Warbi wyl is gamoyofa
\\ atf-s sinTezi
\\ saeqsporto nivTierebaTa daxarisxeba

\\\\ qvemoT CamoTvl il i organel ebidan roml is nawil ia centriol i?
\\ mitoqondria
\\ peroqsisoma
\\ ribosoma
\\ uj redis centri

\\\\ qvemoT CamoTvl il i organel ebidan romel i iqmneba mikromil akebiT?
\\ centriol i
\\ mitoqondria
\\ endopl azmuri bade
\\ gol j is aparati

\\\\ qvemoT CamoTvl il i organel ebidan romel i iqmneba mikromil akebiT?
\\ bazal uri sxel aki
\\ peroqsisoma
\\ mitoqondria
\\ l izosoma

\\\\ qvemoT CamoTvl il i uj redul i struqturubidan romel i iqmneba mikromil akebiT?
\\ wamwami
\\ proteasoma
\\ transportul i buStukebi
\\ Sual eduri fil amentebi

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs mikromil akebi?
\\ uj redidan Warbi wyl is mocil eba
\\ gayofis TiTistaras warmoqmna
\\ atf-s sinTezi
\\ saeqsporto nivTierebaTa daxarisxeba

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs mitoqondria?
\\ uj redidan Warbi wyl is mocil eba
\\ gayofis TiTistaras warmoqmna
\\ atf-s sinTezi
\\ saeqsporto nivTierebaTa daxarisxeba

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs ribosoma?
\\ proteol izi
\\ atf-s warmoqmna
\\ l ipidebis Jangva
\\ cil ebis sinTezi

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs birTvaki?
\\ citopl azma
\\ mitoqondria
\\ birTvi
\\ endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs gol j is aparati?
\\ \\ kariopl azma
\\ \\ mitoqondria
\\ \\ citopl azma
\\ \\ birTvi

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs qromosomebi?
\\ \\ citopl azma
\\ \\ birTvi
\\ \\ gol j is aparati
\\ \\ mitoqondria

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mikromil akebi?
\\ \\ birTvi
\\ \\ citopl azma
\\ \\ mitoqondria
\\ \\ uj redis garsi

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mitoqondriebi?
\\ \\ birTvi
\\ \\ citopl azma
\\ \\ endopl azmuri bade
\\ \\ uj redis garsi

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mikrofil amentebi?
\\ \\ citopl azma
\\ \\ birTvi
\\ \\ gol j is aparati
\\ \\ endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs proteasomebi?
\\ \\ birTvi
\\ \\ citopl azma
\\ \\ mitoqondria
\\ \\ endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs l izosomebis
warmoqmnaSi?
\\ \\ mitoqondria
\\ \\ uj redis centri
\\ \\ gol j is aparati
\\ \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i struqtuebidan romel i qmnis gayofis TiTistaras?
\\ \\ mikromil akebi
\\ \\ mikrofil amentebi
\\ \\ Sual eduri fil amentebi
\\ \\ proteasomebi

\\ \\ \\ randeni uj redi mi iReba mitozis Semdeg?
\\ \\ erTi
\\ \\ ori
\\ \\ sami
\\ \\ oTxi

\\ \\ \\ qvemoT CamoTvl il i el ementebidan romel i qmnis qromosomebs?

- \\ rnm da dnm
- \\ dnm da cil a
- \\ cil a da rnm
- \\ rnm da l ipidebi

- \\ \\ qvemoT CamoTvl il i cil ebidan romel i qmnis mikromil akebs?
- \\ tubul ini
- \\ aqtini
- \\ desmini
- \\ vimentini

- \\ \\ qvemoT CamoTvl il i cil ebidan romel i qmnis mikrofil amentebis?
- \\ aqtini
- \\ desmini
- \\ miozini
- \\ tubul ini

- \\ \\ qvemoT CamoTvl il i struqtur ebidan romel i monawil eobs ribosomebis warmoqmnaSi?
- \\ mitoqondria
- \\ birTvaki
- \\ gol j is aparati
- \\ endopl azmuri bade

- \\ \\ ramdeni membrana qmnis birTvis garss?
- \\ erTi
- \\ ori
- \\ sami
- \\ oTxi

- \\ \\ ramdeni membrana qmnis mi toqondriis safarvel s?
- \\ erTi
- \\ ori
- \\ sami
- \\ oTxi

- \\ \\ qvemoT CamoTvl il i organel ebidan romel i iqmneba ori membraniT?
- \\ l izosoma
- \\ peroqsisoma
- \\ mi toqondria
- \\ endopl azmuri bade

- \\ \\ qvemoT CamoTvl il i struqtur ebidan roml is meSveobiT xorciel deba nivTierebaTa cvl a birTvsa da citopl azmas Soris?
- \\ mikromil akebi
- \\ mikrofil amentebi
- \\ forebi
- \\ cil ovani arxebi

- \\ \\ qvemoT CamoTvl il i organel ebidan roml is membrana qmnis kristebis?
- \\ mi toqondria
- \\ l izosoma
- \\ peroqsisoma
- \\ endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs gl uvi endopl azmuri bade?

- \\ cil is sinTezi
- \\ fosfol ipidebis sinTezi
- \\ atf-s sinTezi
- \\ rnm-s sinTezi

\\ \\ \\ qvemoT CamoTvl il i el ementebidan romel i qmnis ribosomas?

- \\ rnm da dnm
- \\ dnm da cil a
- \\ cil a da rnm
- \\ rnm da l ipidebi

\\ \\ \\ mitoqondriis qvemoT CamoTvl il i ubnebidan sad mdebareobs mitoqondriul i dnm?

- \\ matriqsi
- \\ gareTa membrana
- \\ SigniTa membrana
- \\ membranaTaSorisi sivrce

\\ \\ \\ qvemoT CamoTvl il i organel ebidan roml is Semadgenl obaSi Sedis didi da mcire suberteul i?

- \\ ribosoma
- \\ proteasoma
- \\ l izosoma
- \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS pl azmur membranas?

- \\ gayofis unari
- \\ SerCeviTi ganvl adoba
- \\ denadoba
- \\ mozaikuri Seneba

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ar aris mitozis faza?

- \\ interfaza
- \\ profaza
- \\ tel ofaza
- \\ anafaza

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ar gvxxvdeba mitoqondriis matriqsSi?

- \\ ribosoma
- \\ dnm
- \\ rnm
- \\ proteasoma

\\ \\ \\ qvemoT CamoTvl il Tagan romel i gvxxvdeba mitoqondriis matriqsSi?

- \\ l izosoma
- \\ ribosoma
- \\ peroqsisoma
- \\ nukl eosoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan roml is membranas ukavSirdeba ribosomebi?

- \\ gol j is aparati
- \\ endopl azmuri bade

- \\ l izosoma
- \\ peroqsi soma

\\ \\ \\ qvemoT CamoTvl il i struqturedan roml is membranas ukavSirdeba ribosomebi?

- \\ gol j is aparati
- \\ birTvis garsi
- \\ uj redis garsi
- \\ birTvaki

\\ \\ \\ transportis qvemoT CamoTvl il i saxeebidan romel i saWiroebs energiis xarj vas?

- \\ aqtiuri transporti
- \\ difuzia
- \\ osmosi
- \\ uniporti

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs cil as, romel ic membranis mTel sisqes ikavebs?

- \\ transportul i
- \\ integral uri
- \\ periferiul i
- \\ transmembranul i

\\ \\ \\ qvemoT CamoTvl il i xerxebidan roml iT xorciel deba Txieri nawil akebis SeRweva uj redSi?

- \\ pinocitozi
- \\ fagocitozi
- \\ gaadvil ebul i difuzia
- \\ receptorebiT gaSual ebul i fagocitozi

\\ \\ \\ qvemoT CamoTvl il i xerxebidan roml iT xorciel deba uj redSi mkvrivi nawil akebis SeRweva?

- \\ pinocitozi
- \\ fagocitozi
- \\ difuzia
- \\ gaadvil ebul i difuzia

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar warmoqmnis uj redSorismatriqss?

- \\ epiTel iociti
- \\ gl uvi miociti
- \\ neironi
- \\ fibroblasti

\\ \\ \\ qvemoT CamoTvl il i cil ebidan roml is meSveobiT xorciel deba proteasomebis mier dasaSl el i cil ebi gamocnoba?

- \\ histoni
- \\ ubiqitini
- \\ kl aTrini
- \\ speqtrini

\\ \\ \\ qvemoT CamoTvl il i cil ebidan roml is daSl a ar xdeba proteasomebSi?

- \\ metabol uri cil ebi
- \\ dazianebul i cil ebi

\\ antigenuri cil ebi
\\ endocitozis gziT STanTqmul i

\\ \\ endopl azmur badeze agebul i qvemoT CamoTvl il i cil ebidan romel s ara aqvs sasignal o Tanmimdevroba?

\\ \\ l izosomuri fermentebi

\\ \\ Ncitolpl azmuri da Cegzopl azmuri bol oebis mqone integral uri cil a

\\ \\ Negzopl azmuri da Ccitolpl azmuri bol oebis mqone integral uri cil a

\\ \\ sekreciul i cil ebi

\\ \\ \\ endopl azmur badeze agebul i cil ebidan romel s aqvs rogorc sasignal o, ise topogenuri Tanmimdevroba?

\\ \\ \\ l izosomuri fermentebi

\\ \\ \\ Ncitolpl azmuri da Cegzopl azmuri bol oebis mqone integral uri cil a

\\ \\ \\ Negzopl azmuri da Ccitolpl azmuri bol oebis mqone integral uri cil a

\\ \\ \\ sekreciul i cil ebi

\\ \\ \\ sasqeso uj redebis ganviTarebis procesSi meiozis romel i fazaa ufro xangrZl ivi qal is organizmSi mamakacTan SedarebiT?

\\ \\ \\ profaza I

\\ \\ \\ anafaza I

\\ \\ \\ metafaza II

\\ \\ \\ tel ofaza II

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel i ar gv xvdeba spermiogenzis procesSi?

\\ \\ \\ spermatidebi citopl azmis udides nawil s kargavs da maT Sol ti uviTardebaT

\\ \\ \\ akrosoma yal ibdeba

\\ \\ \\ sabol ood momwifebul i spermatozoidi yal ibdeba

\\ \\ \\ kapacitacia

\\ \\ \\ erTi spermatocitidan warmoqnil i 4 spermatozoididan ramdeni Seicavs Y qromosomas?

\\ \\ \\ 2

\\ \\ \\ 4

\\ \\ \\ 1

\\ \\ \\ 3

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i warmoadgens morul as uSual o winamorbeds?

\\ \\ \\ oociti

\\ \\ \\ zigota

\\ \\ \\ blastocista

\\ \\ \\ gastrul a

\\ \\ \\ kvercxuj redis ganayofierebis SemTxvevaSi spermatozoidis qvemoT CamoTvl il i qromosomul i Semcvel obidan romel i ganapirobebs mamrobiTi sqesis organizmSi warmoqmnas?

\\ \\ \\ 22,X

\\ \\ \\ 22,Y

\\ \\ \\ 23,Y

\\ \\ \\ 23,X

\\ \\ \\ spermatozoidis qvemoT CamoTvl il i struqturebidan romel i Seicavs ganayofierebisaTvis saWi ro fermentebis nakrebs?

- \\ Tavi
- \\ kudi
- \\ akrosoma
- \\ birTvaki

\\ \\ qvemoT CamoTvl il i mamrobiTi sasqeso uj redebidan romel i ganicdis meore meiozur gayofas?

- \\ spermatogonia
- \\ I rigis spermatociti
- \\ II rigis spermatociti
- \\ spermatida

\\ \\ qvemoT CamoTvl il i mamrobiTi sasqeso uj redebidan romel i ganicdis I meiozur gayofas?

- \\ spermatogonia
- \\ I rigis spermatociti
- \\ II rigis spermatociti
- \\ spermatida

\\ \\ qvemoT CamoTvl il i mamrobiTi sasqeso uj redebidan romel i miireba zrdis fazis dasrul ebis Semdeg?

- \\ spermatogonia
- \\ I rigis spermatociti
- \\ II rigis spermatociti
- \\ spermatida

\\ \\ qvemoT CamoTvl il i mamrobiTi sasqeso uj redebidan romel i miireba II meiozuri gayofis Semdeg?

- \\ spermatogonia
- \\ I rigis spermatociti
- \\ spermatida
- \\ spermatozoidi

\\ \\ oocitis qvemoT CamoTvl il i saxeebidan romel s Seicavs mzardi fol ikul i?

- \\ oogonia
- \\ I rigis oociti
- \\ II rigis oociti
- \\ mwife kvercxuj redi

\\ \\ qvemoT CamoTvl il i ubnebidan sad warmoiqmneba amnionis Rru?

- \\ Canasaxgare mezodermis viscerul da lateral ur furcl ebs Soris
- \\ embrionul pol usze, SigniTa uj redul masasa da trofobl asts Soris
- \\ SigniTa uj redul masaSi
- \\ preqordul firfitaSi

\\ \\ qvemoT CamoTvl il i struqtirebidan roml is arseboba ar aris damaxasiaTebli bl astocistisaTvis ganviTarebis me-14-e dReze?

- \\ meoradi yviTris parki
- \\ preqordul i firfita
- \\ pirvel adi xaoebi
- \\ pirvel adi zol i

\\ \\ qvemoT CamoTvl il i struqtirebidan roml is arseboba aris damaxasiaTebel i bl astocistisaTvis ganviTarebis me-14-e dReze?

- \\ pirvel adi zol i
- \\ Canasaxis cel omi

- \\ pirvel adi xaoebi
- \\ meoreul i xaoebi

\\ \\ \\ qvemoT CamoTvl il i struqturidan romel i ar aris warmoqmnil i embrionul i ganviTarebis me-10-s dReze?

- \\ \\ amnionis Rru
- \\ \\ pirvel adi yviTris parki
- \\ meoradi yviTris parki
- \\ \\ Canasaxgare mezoderma

\\ \\ \\ rodis amTavrebs pirvel i rigis oociti pirvel meiozur gayofas?

- \\ \\ ovul aciis Semdeg
- \\ \\ ovul aciis win
- \\ \\ ganayofierebis dros
- \\ \\ dabadebamde

\\ \\ \\ qvemoT CamoTvl il i mamrobiTi sasqeso uj redebidan romel s aqvs mitozuri gayofis unari?

- \\ \\ I rigis spermatociti
- \\ \\ II rigis spermatociti
- \\ \\ spermatida
- \\ \\ spermatogonia

\\ \\ \\ qvemoT CamoTvl il i periodebidan rodis amTavrebs meore rigis oociti meore meiozur gayofas?

- \\ \\ ovul aciamde
- \\ \\ ganayofierebis procesSi
- \\ \\ sqesobrivi momwifebis periodSi
- \\ \\ embrionul i ganviTarebis periodSi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar Seicavs qromosomebis dipl oidur raodenobas?

- \\ \\ II rigis oociti
- \\ \\ spermatogonia
- \\ \\ I rigis oociti
- \\ \\ oogonia

\\ \\ \\ ra ewodeba mitozur gayofas, romel sac ganicdis zigota?

- \\ \\ dayofa
- \\ \\ impl antacia
- \\ \\ embriogenezi
- \\ \\ pl acentacia

\\ \\ \\ qvemoT CamoTvl il i struqturidan romel i aZl evs dasabams samive Canasaxovan furcel s?

- \\ \\ epibl asti
- \\ \\ hipobl asti
- \\ \\ citotrofobl asti
- \\ \\ sincitiotrofobl asti

\\ \\ \\ qvemoT CamoTvl il i procesebidan roml is intensivoba mcirdeba uj redebis diferenciaciis procesSi?

- \\ \\ special izacia
- \\ \\ prol iferacia
- \\ \\ zrda
- \\ \\ ganviTareba

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i ar aris warmoqmnil i embrionul i ganviTarebis me-12 dReze?

\\ \\ amnionis Rru

\\ \\ citotrofobl asti

\\ \\ sincitiotrofobl asti

\\ \\ Canasaxis cel omis Rru

\\ \\ \\ embrionul i ganviTarebis romel dReze warmoiqmneba preqordul i firfita?

\\ \\ me-8-e

\\ \\ me-10-e

\\ \\ me-12-e

\\ \\ me-14-e

\\ \\ \\ dasaxel eT qorionis kedl is garsebis swori Tanmimdevroba garedan SigniT:

\\ \\ citotrofobl asti, Canasaxgare somaturi mezoderma, sincitiotrofobl asti

\\ \\ Canasaxgare spl anqnuri mezoderma, sincitiotrofobl asti, citotrofobl asti

\\ \\ sincitiotrofobl asti, citotrofobl asti, Canasaxgare spl anqnuri mezoderma

\\ \\ sincitiotrofobl asti, citotrofobl asti, Canasaxgare somaturi mezoderma

\\ \\ \\ embrionul i ganviTarebis romel kviras iwyeba utero-pl acenturi sisxl is mimoqcevis Camoyal ibeba?

\\ \\ I

\\ \\ II

\\ \\ III

\\ \\ IV

\\ \\ \\ embrionul i ganviTarebis romel i dRidan gadadis Canasaxi hematroful kvebaze?

\\ \\ me-6-e

\\ \\ me-7-e

\\ \\ me-10-e

\\ \\ me-14-e

\\ \\ \\ qvemoT CamoTvl il i struqturebidan roml is warmoqmnasTan aris dakavSirebul i Canasaxis gadasvl a hematroful kvebaze?

\\ \\ yviTris parki

\\ \\ pirvel adi xaoebi

\\ \\ mesameul i xaoebi

\\ \\ sincitiotrofobl astis I akunebi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis sincitiotrofobl asts?

\\ \\ mraval birTvianoba

\\ \\ uj redSorisi sazRvrebis ararseboba

\\ \\ maRal i invaziuri aqtivoba

\\ \\ maRal i prol iferaciul i aqtivoba

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel Si xdeba qorionul i gonadotropinis gamomuSaveba?

\\ \\ sincitiotrofobl asti

\\ \\ citotrofobl asti

\\ \\ pirvel adi zol i

\\ \\ Canasaxgare somaturi mezoderma

\\ \\ \\ qvemoT CamoTvl il i struqturedan romel Si xdeba pirvel adi sasqeso uj redebis gametebis Senaxva gonadebis warmoqmnamde?

\\ \\ amnionis membrana

\\ \\ epibl asti

\\ \\ yviTris parki

\\ \\ al antoisi

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel s ar ganapirobebs ganayofierebis procesi?

\\ \\ astimul irebs meore rigis oocitSi meore meiozuri gayofis dasrul ebas

\\ \\ aRadgens zigotaSi qromosomebis dipl oidur raodenobas

\\ \\ gansazRvavs embrionis sqess

\\ \\ ganapirobebs genebis 'arevas- da genetikuri masal is axal i kombinaciebis warmoqmnas

\\ \\ \\ qvemoT CamoTvl il i struqturedan roml is warmoqmnas ewodeba gastrul acia?

\\ \\ citotrofobl asti da sincitiotrofobl asti

\\ \\ amnionis Rrus da yviTris parki

\\ \\ eqtoderma, mezoderma da endoderma

\\ \\ Canasaxgare da Canasaxis cel omis Rru

\\ \\ \\ qvemoT CamoTvl il i struqturedan romel i ar aris pirvel adi zol is warmonaqmi?

\\ \\ qordul i morCi

\\ \\ Canasaxis mezoderma

\\ \\ Canasaxis endoderma

\\ \\ nervul i firfita

\\ \\ \\ qvemoT CamoTvl il i struqturedan roml ebs Soris mdebareobs qordul i morCi?

\\ \\ pirvel adi ormo da kl oakis membrana

\\ \\ kl oakis membrana da pir-xaxis membrana

\\ \\ kl oakis membrana da Canasaxovani fexi

\\ \\ pirvel adi ormo da pir-xaxis membrana

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad ar warmoiqmneba embrionul i ganviTarebis III kvi raze Canasaxis mezoderma?

\\ \\ kraniul nawil Si

\\ \\ nervul i Raris irgvl iv

\\ \\ kl oakisa da pir-xaxis membranis midamoSi

\\ \\ gani vi Zgidis midamoSi

\\ \\ \\ embrionul i ganviTarebis romel dReze xdeba pirvel i somi tomerebis warmoqmna?

\\ \\ me-10-11-e

\\ \\ me-20-30-e

\\ \\ me-15-16-e

\\ \\ me-18-19-e

\\ \\ \\ somi tomerebis qvemoT CamoTvl il i wyvil ebidan romel i ar warmoqmnis somi tebs?

\\ \\ gul mkerdis midamos 12 wyvil i

\\ \\ gavis midamos 4 wyvil i

\\ \\ Tavis midamos pirvel i 7 wyvil i

\\ kisris midamos 8 wyvil i

\\\ somitomerebis qvemoT CamoTvl il i wyvil ebidan romel i warmoqmni s I, II da III somitebis wyvil s?

\\ I, II da III

\\ VIII, IX da X

\\ II, III da IV

\\ V, VI da VII

\\\ embrionul i ganvitarebis romel dReze xdeba somitebis pirvel is sami wyvil is warmoqmna?

\\ 15-16-e

\\ 18-19-e

\\ 20-e

\\ 24-e

\\\ Canasaxis qvemoT CamoTvl il i ubnebidan sad iqmneba somitebis pirvel i 4 wyvil i?

\\ pirvel adi ormos win

\\ uSual od kl oakis membranis win

\\ momaval i kefis midamoSi

\\ wina tvinis midamoSi

\\\ ramdeni wyvil i somiti warmoiqmneba kisris midamoSi?

\\ 7

\\ 8

\\ 9

\\ 12

\\\ embrionul i ganvitarebis romel dReze iwyeba nervul i firfitis warmoqmna?

\\ 15-e

\\ 16-e

\\ 17-e

\\ 18-e

\\\ qvemoT CamoTvl il i embrionul i nergebidan romel i aZl evs dasabams angiobl astebs?

\\ eqtoderma

\\ endoderma

\\ mezenqima

\\ mezoderma

\\\ qvemoT CamoTvl il i uj redebidan romel i warmoqmni sisxl is kunZul akebs?

\\ mezobl astebi

\\ endoTel uri uj redebi

\\ angiobl astebi

\\ gonobl atebs

\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel s miaqvs sisxl i primitiul gul Si Canasaxis sxel idan?

\\ wina kardinal uri venebi

\\ ukana kardinal uri venebi

\\ vitel inuri vena

\\ Wipl aris vena

\\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel s miqvs primitiul gul Si sisxl i Canasaxis sxeul isa da Tavis midamodan?
\\ wina kardinal uri vena
\\ ukana kardinal uri vena
\\ saerTo kardinal uri vena
\\ vitel inuri vena

\\\\ qvemoT CamoTvl il i sisxl ZarRvebidan roml is gaerTianebiT warmoiqmneba saerTo kardinal uri vena?
\\ wina da ukana kardinal uri venebi
\\ wina, Sua da ukana kardinal uri venebi
\\ vitel inuri da ukana kardinal uri vena
\\ Wipl aris vena, vitel inuri vena da wina kardinal uri vena

\\\\ embrionul i ganviTarebis romel vadaze warmoiqmneba al antoisi?
\\ me-14-e
\\ me-16-e
\\ me-18-e
\\ 21-e

\\\\ qvemoT CamoTvl il i funqciebidan romel Si ar monawil eobs al antoisi adami aniS CanasaxSi?
\\ sisxl is warmoqmna
\\ Sardis buStis Camoyal ibeba
\\ Wipl aris arteriebisa da venebis warmoqmna
\\ sunTqva

\\\\ qvemoT CamoTvl il i uj redebidan uSual od romel i warmoqmniS sisxl is pirvel ad uj redebs - hemocitobl astebs?
\\ angiobl astebi
\\ endoTel uri uj redebi
\\ mezobl astebi
\\ amniobl astebi

\\\\ embrionul i ganviTarebis romel vadaze iwyeba sisxl is uj redebis warmoqmna uSual od embrionSi?
\\ III kvira
\\ V kvira
\\ VI kvira
\\ IX kvira

\\\\ SearCieT embrionul i hemopoezis dawyebis swori Tanmimdevroba sxvadasxva organoSi.
\\ el enTa, I imfuri kvanZi, Zvl is tvini, RviZl i
\\ RviZl i, el enTa, Zvl is tvini, I imfuri kvanZi
\\ Zvl is tvini, el enTa, RviZl i, I imfuri kvanZi
\\ I imfuri kvanZi, el enTa, RviZl i, Zvl is tvini

\\\\ qvemoT CamoTvl il i procesebidan roml is aRmniSvnel ia termini neirul acia?
\\ nervul i firfitis warmoqmna
\\ nervul i sistemis warmoqmna
\\ nervul i I ul is warmoqmna
\\ nervul i xveul ebis warmoqmna

\\ \\ \\ qvemoT CamoTvl il i struqturēbidan romel Tan inarCunebs kavSirs nervul i I ul a Tavisā da kudis neuroforebis daxurvamde?
\\ \\ \\ yvitrīs parkis Rru
\\ \\ \\ bl astocistas Rru
\\ \\ \\ qorionis Rru
\\ \\ \\ amnionis Rru

\\ \\ \\ qvemoT CamoTvl il i struqturēbidan romel i ar ris nervul i qedis warmonaqmni?
\\ \\ \\ Tirkmel zeda jirkvl is tvinovani nivTiereba
\\ \\ \\ kanis mel anocitebi
\\ \\ \\ odontobl astebi
\\ \\ \\ hipofizis adenocitebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar aris nervul i qedis warmonaqmni?
\\ \\ \\ Tavisā da zurgis tvinis mgrZnobiare gangl iebis neironebi
\\ \\ \\ simpātikuri da parasimpātikuri gangl iebis motoneironebi
\\ \\ \\ periferiul i aqsonebis Svanis uj redebi
\\ \\ \\ central uri aqsonebis ol igodendrogl iocitebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar aris nervul i qedis warmonaqmni?
\\ \\ \\ periferiul i gangl iebis satel iti uj redebi
\\ \\ \\ mgrZnobiare gangl iebis neironebi
\\ \\ \\ motorul i gangl iebis neironebi
\\ \\ \\ zurgis tvinis motoneironebi

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel i ar mimdinareobs embrionul i ganviTarebis IV kviris ganmavl obaSi?
\\ \\ \\ morfogenezi
\\ \\ \\ neirul acia
\\ \\ \\ pirvel adi nawl avis warmoqmna
\\ \\ \\ mezodermis diferenciacia

\\ \\ \\ qvemoT CamoTvl il i struqturēbidan roml is warmoqmna xdeba Canasaxis lateral uri moxris procesSi?
\\ \\ \\ al antoisi
\\ \\ \\ wina nawl avi
\\ \\ \\ Wipl ari
\\ \\ \\ Sua nawl avi

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel i ganapirobebs ukana (kudis) naxvevis warmoqmnas?
\\ \\ \\ nervul i I ul is kraniul i nawil is gamsxvil eba
\\ \\ \\ somitebis ganviTareba
\\ \\ \\ nervul i I ul is kaudal uri nawil is sigrZeSi zrda
\\ \\ \\ pirvel adi zol is ukuganviTareba

\\ \\ \\ embrionul i ganviTarebis romel dReze iwyeba sal ayuCe rkal ebis warmoqmna?
\\ \\ \\ 22-e
\\ \\ \\ 28-e
\\ \\ \\ 24-e
\\ \\ \\ 30-e

\\\\ embrionul i ganviTarebis romel dReze gani rCeva pirvel ad zemo kiduris Canasaxi?

\\ 22-e

\\ 28-e

\\ 27-e

\\ 30-e

\\\\ embrionul i ganviTarebis romel kviras xdeba smenis ormoebisa da brol is pl akodebis warmoqmna?

\\ III

\\ IV

\\ V

\\ VII

\\\\ embrionul i ganviTarebis romel kviras iwyeba zemo kiduris diferenciacia?

\\ III

\\ IV

\\ V

\\ VI

\\\\ embrionul i ganviTarebis romel kviras warmoiqmneba mezonefral uri xidaki da romel i organos warmoqmnaSi monawil eobs igi?

\\ III / gul i

\\ IV / gonadebi

\\ V / Tirkmel i

\\ VI / TiTis sxivebi

\\\\ qvemoT CamoTvl il i wyvil ebidan romel i asaxavs sworad Sesabamisi struqturis ganviTarebis dawyebis vadas?

\\ TiTis sxivebi - III kvira

\\ zemo kiduris Canasaxi - V kvira

\\ qvemo kiduris gaZval eba - VIII kvira

\\ zeda kiduris TiTebis gancal keveba - VI kvira

\\\\ sal ayuCe rkal ebis qvemoT CamoTvl il i wyvil ebidan romel i warmoqmnis qveda da zedaybas?

\\ I

\\ II

\\ III

\\ IV

\\\\ qvemoT CamoTvl il i ubnebidan sad warmoiqmneba Canasaxis cel omis Rru?

\\ paraqsiul i mezoderma

\\ Suamdebare mezoderma

\\ I ateral uri mezodermis wina nawil i

\\ I ateral uri mezodermis kaudal uri nawil i

\\\\ qvemoT CamoTvl il i struqturibidan romel i warmoqmnis diafragmas?

\\ gul mkerdis midamos somitebi

\\ spl anqnopl evra

\\ somatopl evra

\\ ganivi Zgide

\\\\ qvemoT CamoTvl il i struqturibidan romel i ar viTardeba qordi saxl o mezodermisagan?

\\ ConCxis ganivzol iani kunTebi

- \\ ConCxi
- \\ kanis derma
- \\ gul is kunTi

\\ \\ \\ qvemoT CamoTvl il i organoebidan romel i viTardeba Suamdebare mezodermidan?

- \\ el enTa
- \\ Tirkmel i
- \\ Tirkmel zeda jirkvl is tvinovani nivTiereba
- \\ I imfuri kvanZebi

\\ \\ \\ axal Sobil s aReniSneba gava-kudusunis (sakrokokcigeul i) simsiwnis arseboba. simsiwnis Semadgenl obaSi sxvadasxva embrionul i qsovil is arsebobaa damaxasiaTebel i. simsiwne keTil Tvisebiana da misi mocil eba qirurgiul i wesiT unda moxdes. qvemoT CamoTvl il Tagan romel i ganapirobebs aRniSnul i simsiwnis warmoqmnas?

- \\ somitebis formirebis darRveva
- \\ pirvel adi zol is warmoqmnis procesis darRveva
- \\ pirvel adi zol is regresiis arasrul fasovneba
- \\ qordis warmoqmnis darRveva

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel Si SeiZl eba gamovl indes endodermul i qsovil is arseboba?

- \\ pirvel adi ormo
- \\ somiti
- \\ al antoisi
- \\ qorda

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i amofens qorionis Rrus?

- \\ spl anqnuri da somaturi mezoderma
- \\ endoderma
- \\ eqtoderma
- \\ qorionul i membrana

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis sincitiotrofobl asts?

- \\ kargad gamoxatul i uj redul i sazRvrebis arseboba
- \\ dabal i invaziuri aqtivoba
- \\ hipobl asturi warmoSoba
- \\ maRal i invaziuri aqtivoba

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel ia bl astocistas uSual owinamorbedi?

- \\ zigota
- \\ morul a
- \\ gastrul a
- \\ neirul a

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel Si viTardeba I akunebi embrionul i ganviTarebis II kviras?

- \\ eqstraembrionul i mezoderma
- \\ embriobl asti
- \\ citotrofobl asti
- \\ sincitiotrofobl asti

\\ \\ qvemoT CamoTvl il i struqturēbidan romel i viTardeba somi tis ventromedial uri nawil idan?

\\ skl erotomi

\\ dermatomi

\\ hipomeri

\\ miotomi

\\ \\ qvemoT CamoTvl il i struqturēbidan romel i ainducirebs paraqsiul mezodermaSi somi tebis warmoqmnas?

\\ qorda

\\ pirvel adi zol i

\\ nervul i firfita

\\ Suamdebare mezoderma

\\ \\ qvemoT CamoTvl il i struqturēbidan romel i aZl evs dasabams qordul morCs?

\\ qorda

\\ mezoderma

\\ qordul i firfita

\\ pirvel adi ormo

\\ \\ qvemoT CamoTvl il i struqturēbidan roml is warmoqmnis Semdeg iwyeba gastrul acia?

\\ pirvel adi zol is

\\ hipobl astis

\\ citotrofobl astis

\\ endodermis

\\ \\ embrionul i ganviTarebis romel vadaze warmoiqmneba amnionis Rru?

\\ I kviris bol os

\\ II kviris bol os

\\ gastrul aciis proceSi

\\ me-8 dReze

\\ \\ qvemoT CamoTvl il i struqturēbidan romel i viTardeba Canasaxis mezodermi dan?

\\ epidermisi

\\ ConCxis ganivzoli ani kunTebi

\\ nervul i firfita

\\ frCxili

\\ \\ nervul i firfitis qvemoT CamoTvl il i ubnebidan sad iwyeba neirul acia?

\\ momaval i Tavis tvinis midamoSi

\\ momaval i zurgis tvinis midamoSi

\\ Tavisada zurgis tvinis sazRvarze, momaval i kefis midamoSi

\\ nervul i firfitis yvel a nawil Si erTdroul ad

\\ \\ Canasaxis qvemoT CamoTvl il i ubnebidan sad warmoiqmneba preqordul i firfita?

\\ epibl astSi

\\ I kviris bol os citotrofobl astSi

\\ sincitiotrofobl astSi

\\ II kviris bol os hipobl astSi

\\ \\ embrionul i ganviTarebis I kviris dasawyisSi Canasaxis kveba xorciel deba:

\\ histotroful i gziT

- \\ hematroful i gziT
- \\ utero-placenturi sisxl ismimoqcevis meSveobiT
- \\ Canasaxis sisxl ZarRvebis meSveobiT

\\ \\ \\ qvemoT CamoTvl il i struqturidan romel Tan inarCunebs kavSirs nervul i l ul is nawil i Tavisa da kudis neiro-porebis srul daxurvamde?

- \\ amnionis RrusTan
- \\ yviTris parkTan
- \\ qordasTan
- \\ Canasaxis cel omis RrusTan

\\ \\ \\ Canasaxovani faris qvemoT CamoTvl il i cvl il ebebidan romel i ganapirobebs Sua nawl avis warmoqmna?

- \\ Tavis naxvevis warmoqmna
- \\ kudis naxvevis warmoqmna
- \\ Canasaxis lateral uri moxra
- \\ qorionis Rrus warmoqmna

\\ \\ \\ qvemoT CamoTvl il i cvl il ebebidan romel s ganicdis qorda mal ebis warmoqmna Semdeg?

- \\ srul ukuganviTarebas
- \\ mal is sxeul is Semadgenl obaSi rCeba
- \\ mal TaSua diskos fibrozul rgol s warmoqmna
- \\ mal TaSua diskos pul pozuri birTvis saxiT rCeba

\\ \\ \\ qvemoT CamoTvl il i struqturidan romel Si iwyeba pirvel ad sisxl is warmoqmna?

- \\ paraqsiul mezodermaSi
- \\ yviTris parkis mezodermaSi
- \\ qorionis somatur mezodermaSi
- \\ Canasaxis lateral ur mezodermaSi

\\ \\ \\ Wipl aris venebs embrionis gul Si sisxl i miaqvs:

- \\ placentidan
- \\ yviTris parkidan
- \\ embrionis Tavidan
- \\ embrionis sxeulidan

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel i ganapirobebs uSual od TiTebis warmoqmna?

- \\ diferenciacia
- \\ zrda
- \\ apoptozi
- \\ proliferacia

\\ \\ \\ somitis qvemoT CamoTvl il i nawil ebidan romel i aZl evs dasabams zurgis kunTebis?

- \\ skl erotomi
- \\ hipomeri
- \\ dermatomi
- \\ epimeri

\\ \\ \\ qvemoT CamoTvl il i Rruebidan romel i aZl evs dasabams perikardiumis, pl evrisa da peritoneumis Rrus?

- \\ Canasaxgare cel omis
- \\ Canasaxis cel omis

- \\ amnionis
- \\ yviTris parki

\\ \\ qvemoT CamoTvl il i struqturedan romel i ar ganviTardeba Tu embrions amokveTen qordas?

- \\ nervul i firfita
- \\ promitiul i gul i
- \\ kl oakis membrana
- \\ meoradi yviTris parki

\\ \\ SearCieT qordis ganviTarebis procesis swori Tanmimdevroba.

- \\ qordul i morCi, qorda, qordul i firfita
- \\ pirvel adi kvanZi, qordul i firfita, qordul i morCi, qorda
- \\ qordul i firfita, qordul i morCi, qorda, pirvel adi ormo
- \\ qordul i morCi, qordul i firfita, qorda

\\ \\ embrionul i ganviTarebis romel vadaze ixureba nervul i l ul is Tavis nawil i (Tavis neiropori)?

- \\ III kviras
- \\ V kviras
- \\ 26-28-e dReze
- \\ 24-25-e dReze

\\ \\ qvemoT CamoTvl il i Rruebidan romel i aZl evs dasabams saWml is momnel ebel i sistemis Rrus?

- \\ amnionis
- \\ Canasaxgare cel omis
- \\ Canasaxis cel omis
- \\ yviTris parkis

\\ \\ qvemoT CamoTvl il i embrionul i nergebidan romel i warmoqmnis mal ebs?

- \\ dermatomi
- \\ miotomi
- \\ skl erotomi
- \\ mezenqima

\\ \\ embrionul i ganviTarebis romel kviraze Cndeba zeda kiduris Canasaxi?

- \\ IV
- \\ V
- \\ VI
- \\ VII

\\ \\ ra cvl il ebebs ganicdis Canasaxis l ateral uri moxris procesSi Canasaxis cel omis Rru?

- \\ dorzal urad gadainacvl ebs
- \\ Canasaxis ventral ur zedapirze gadainacvl ebs
- \\ amnionis RrusTan amyarebs kavSirs
- \\ yviTris parkis RrusTan amyarebs kavSirs

\\ \\ qvemoT CamoTvl il i cvl il ebebidan romel s iwevs CanasaxSi pirvel adi zol is darCena?

- \\ zurgis tvinis kaudal uri nawil is warmoqmnas
- \\ dermis warmoqmnas
- \\ gava-kudusunis teratomis ganviTarebas
- \\ kidurebis ganviTarebas

- \\ \\ \\ sad mdebareobs kardiogenul i are, roml idanac gul i viTardeba?
- \\ \\ \\ kl oakis membranis win mezodermaSi
- \\ \\ \\ pirvel adi ormos win eqtodermaSi
- \\ \\ \\ pirxaxis membranis ukan l ateral ur mezodermaSi
- \\ \\ \\ pirxaxis membranis win l ateral ur mezodermaSi

- \\ \\ \\ qveda kidurebis romel i Zval i ganicdis pirvel ad gaZval ebis process?
- \\ \\ \\ barZayis
- \\ \\ \\ TiTis
- \\ \\ \\ wviviS
- \\ \\ \\ koWiS

- \\ \\ \\ qvemoT CamoTvl il i struqturidan roml is ganviTarebas ainducirebs Canasaxgare mezoderma?
- \\ \\ \\ pirvel adi yviTris parki
- \\ \\ \\ meoradi yviTris parki
- \\ \\ \\ Canasaxovani fari
- \\ \\ \\ trofobl asti

- \\ \\ \\ embrionul i ganviTarebis meramdene kviras iwyeba CanasaxSi hemopoeziS procesi?
- \\ \\ \\ III
- \\ \\ \\ IV
- \\ \\ \\ V
- \\ \\ \\ VI

- \\ \\ \\ CamoTvl il Tagan ramdeni wyvil i somiti warmoiqmneba embrionul i ganviTarebis me-20-e dRes CanasaxSi?
- \\ \\ \\ 2
- \\ \\ \\ 3
- \\ \\ \\ 4
- \\ \\ \\ 10

- \\ \\ \\ embrionul i ganviTarebis romel vadebs moicavs somituri periodi?
- \\ \\ \\ me-10-20-e dRe
- \\ \\ \\ me-20-30-e dRe
- \\ \\ \\ 35-40-e dRe
- \\ \\ \\ me-40-50-e dRe

- \\ \\ \\ romel Canasaxovan SreSi iwyeba nei rul acia?
- \\ \\ \\ eqtoderma
- \\ \\ \\ endoderma
- \\ \\ \\ mezoderma
- \\ \\ \\ mezenqima

- \\ \\ \\ qvemoT CamoTvl il i struqturidan romel i monawil eobs Wipl aris warmoqmnaSi?
- \\ \\ \\ Canasaxovani fexi da al antoisi
- \\ \\ \\ qorionis xaoebi
- \\ \\ \\ sincitiotrofobl asti
- \\ \\ \\ amnionis Rru

- \\ \\ \\ qvemoT CamoTvl il i procesebidan romel s ganicdis spermatozoidi qal is sasqeso sistemaSi?
- \\ \\ \\ spermiogenezi
- \\ \\ \\ kapacitacia

- \\ di ferenciacia
- \\ Il meiozuri gayofa

- \\ \\ qvemoT CamoTvl il i organoebidan romel i viTardeba endodermidan?
- \\ Tirkmel zeda jirkvl is qerqovani nivTiereba
- \\ el enTa
- \\ RviZl i
- \\ Sardis buSti

- \\ \\ qvemoT CamoTvl il i struqtorebidan romel i viTardeba eqtodermidan?
- \\ gamomyofi da sasqeso sistemis didi nawil i
- \\ epidermisi da nervul i sistema
- \\ gul -sisxl ZarRvTa sistema
- \\ gul mkerdis da mucl is Rrus serozul i garsebi

- \\ \\ ra ewodeba bl astocistaSi Rrus, romel ic Canasaxovan fars trofobl astisgan gamoyofs?
- \\ bl astocel e
- \\ amnionis Rru
- \\ qorionis Rru
- \\ yviTris parki

- \\ \\ qvemoT CamoTvl il i procesebidan romel i iwyeba epi bl astidan uj redebis migraci iT hipobl astisken?
- \\ dayofa
- \\ organogenezi
- \\ gastrul acia
- \\ neirul acia

- \\ \\ romel i Canasaxovani furcl ebis urTierTinduqciis Sedegia neirul acia?
- \\ eqtoderma da mezoderma
- \\ eqtoderma da endoderma
- \\ endoderma da mezoderma
- \\ eqtoderma da Canasaxgare mezoderma

- \\ \\ qvemoT CamoTvl il i periodebidan romel i srul deba bl astocistis impl antaci iT?
- \\ prenatal uri
- \\ adreul i embrionul i
- \\ Canasaxovani
- \\ nayofis

- \\ \\ qvemoT CamoTvl il i struqtorebidan roml is winamorbedia Canasaxovani fexi?
- \\ qorionis xaoebi
- \\ Wipl ari
- \\ yviTris parki
- \\ Wipl aris vena

- \\ \\ qvemoT CamoTvl il Tagan, central uri nervul i sistemis romel ubanSi warmoiqmneba pirvel ad bazal uri svetebi?
- \\ tvinis Rero
- \\ umaRl esi centrebi
- \\ zurgis tvini
- \\ nervul i qedi

\\\ qvemoT CamoTvl il i cvl il ebebidan romel s ganapirobebs rombencefal onSi
ventral uri da dorzal uri svetebis paral el uri mdebareoba? M
\\ Zal ian farTo da Txel i saxuravis firfitis warmoqmna
\\\ neironebis migracia saxuravis firfitaSi
\\\ ganieri da sqel i fuZis firfitis warmoqmna
\\\ neironebis migracia fuZis firfitaSi

\\\ qvemoT CamoTvl il i Sreebidan romel i aZl evs dasabams naTxemis birTvebis
neironebs?
\\\ metencefal onis saxuravis firfita
\\\ gareTa Canasaxovani Sre
\\ SigniTa Canasaxovani Sre
\\\ metencefal onis fuZis firfita

\\\ qvemoT CamoTvl il Tagan, diencefal onis romel i ubani warmoqmnis Tal amusis
da hipoTal amusis birTvebs?
\\\ bazal uri svetebi
\\ frTisebri svetebi
\\\ saxuravis firfita
\\\ fuZis firfita

\\\ qvemoT CamoTvl il i embrionul i nergebidan romel i warmoqmnis zurgis
tvinis avtonomiur gangl iebis?
\\\ nervul i qedi
\\\ pl akodebi
\\ gverdiTi svetebi
\\\ bazal uri svetebi

\\\ qvemoT CamoTvl il Tagan, Tavis tvinis hemisferoebis romel i wil ebi
viTardeba pirvel ad?
\\\ kefis
\\\ Subl is
\\ safeTql is
\\\ lateral uri

\\\ Tavis tvinis qvemoT CamoTvl il i nawil ebidan romel i warmoadgens zurgis
tvinis usual o gagrZel ebas?
\\\ mezencefal oni
\\\ tel encefal oni
\\\ metencefal oni
\\ miel encefal oni

\\\ qvemoT CamoTvl il Tagan, romel i struqturis warmoqmna aris cnobil i
neirul aciis saxel iT?
\\\ nervul i firfitis
\\ nervul i mil is
\\\ nervul i qedis
\\\ nervul i xveul ebis

\\\ qvemoT CamoTvl il Tagan, nervul i l ul is romel ubanSi mdebareobs Tavis
naxvevi?
\\\ rombencefal oni
\\\ metencefal onSi
\\\ mezencefal oni
\\ prozencefal oni

\\\\ Tavis tvinis qvemoT CamoTvl il i nawil ebidan romel ia ganviTarebul i sambuStukovan stadiaze?

- \\ miel encefal oni
- \\ rombencefal oni
- \\ diencefal oni
- \\ tel encefal oni

\\\\ ra mimarTul ebiT gadainacvl ebs metencefal oni xidis nadreki s warmoqmni s Semdeg?

- \\ diencefal onis qveS da win
- \\ mezencefal onis qveS da win
- \\ miel encefal onis qveS da ukan
- \\ prozencefal onis ukan da zemoT

\\\\ qvemoT CamoTvl il Tagan, nervul i sistemis romel i nawil i viTardeba miel encefal onidan?

- \\ oTxgoraki
- \\ mogrZo tvini
- \\ xidi
- \\ naTxemi

\\\\ qvemoT CamoTvl il Tagan, Tavis tvinis romel i nawil i aZl evs dasabams metencefal ons?

- \\ rombencefal oni
- \\ mezencefal oni
- \\ prozencefal oni
- \\ diencefal oni

\\\\ nervul i l ul is qvemoT CamoTvl il i Sreebidan romel i aZl evs dasabams ol igodendrogl iocitebs?

- \\ marginal uri
- \\ mantiuri
- \\ ventrikul uri
- \\ gangl iuri

\\\\ qvemoT CamoTvl il Tagan, romel i tipis neironebi viTardeba bazal uri svetebis neirobl astebidan?

- \\ somaturi motorul i
- \\ avtonomiuri motorul i
- \\ CarTul i
- \\ mgrZnobiare

\\\\ nervul i l ul is qvemoT CamoTvl il i ubnebidan romel Si mimdinareobs yvel aze bol os neironebis diferenciacia?

- \\ mediol ateral ur svetebSi
- \\ frTisebr svetebSi
- \\ bazal ur svetebSi
- \\ nervul qedSi

\\\\ qvemoT CamoTvl il Tagan, Tavis tvinis romel ubanSi viTardeba mxol od dorzal uri svetebi?

- \\ miel encefal oni
- \\ metencefal oni
- \\ mezencefal oni
- \\ diencefal oni

\\ \\ nervul i l ul is romel i nawil is Rru warmogmnis sil viis wyal sadens?
\\ \\ miel encefal onis
\\ \\ mezencefal onis
\\ \\ tel encefal onis
\\ \\ diencefal onis

\\ \\ qvemoT CamoTvl il Tagan, nervul i l ul is kedl is romel i Sre aZl evs dasabams TeTr nivTierebas?
\\ \\ ventrikul uri
\\ \\ marginal uri
\\ \\ mantiuri
\\ \\ gangl iuri

\\ \\ qvemoT CamoTvl il i kavSirebidan romel i saWiroebs adheziis ganxorciel ebisaTvis kal ciumis ionebs?
\\ \\ imunogl obul inebis zeoj axi
\\ \\ integrinebi
\\ \\ kadherinebi
\\ \\ mucinebi

\\ \\ qvemoT CamoTvl il i qsovil ebidan roml is funcioni rebisTvis aris aucil ebel i uj redSorisi uj redSorisi sivrceebis hermetizacia?
\\ \\ epiTel uri
\\ \\ cximovani
\\ \\ xrtil ovani
\\ \\ Zvl ovani

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel Si gvxxvdeba brma sartyel i?
\\ \\ epiTel uri
\\ \\ SemaerTebel i
\\ \\ xrtil ovani
\\ \\ kunTovani

\\ \\ qvemoT CamoTvl il Tagan romel s uzrunvel yofs Sewebebis sartyel i?
\\ \\ qsovil ebSi uj redebis mowesrigebul i struqturul i integracia
\\ \\ uj redSorisi sivrcis srul i hermetizacia
\\ \\ uj redebis matriqsTan dakavSireba
\\ \\ uj redebs Soris nivTierebaTa cvl a

\\ \\ qvemoT CamoTvl il i kavSirebidan romel i uzrunvel yofs uj redebs Soris ionebis moZraobas?
\\ \\ Sewebebis sartyel i
\\ \\ desmosoma
\\ \\ neqsusi
\\ \\ hemidesmosoma

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel s axasiaTebis sartyl isebri kavSirebis arseboba?
\\ \\ epiTel uri qsovil i
\\ \\ sakuTriv SemaerTebel i qsovil i
\\ \\ Zvl ovani qsovil i
\\ \\ cximovani qsovil i

\\ \\ qvemoT CamoTvl il i cil ebidan romel i Sedis terminal uri badis Semadgenl obaSi?
\\ \\ desmogI eini

\\ al fa-aqtinini
\\ \\ desmini
\\ \\ tubul ini

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i Sedis neqsusis Semadgenl obaSi?
\\ \\ kl atrini
\\ \\ desmogI eini
\\ \\ desmopl akini
\\ \\ koneqsoni

\\ \\ \\ qvemoT CamoTvl il i uj redSorisi kavSirebidan romel i uzrunvel yofs
uj redSorisi sivrcis srul hermetizacias?
\\ \\ desmosoma
\\ \\ Sewebebis sartyel i
\\ \\ mkvrivi kontakti
\\ \\ hemidesmosoma

\\ \\ \\ qvemoT CamoTvl il i adheziuri mol ekul ebidan romel s ukavSirdeba
matriqsis struqturul i gl ikoproteinebi?
\\ \\ integrinebi
\\ \\ sel eqtinebi
\\ \\ kadherinebi
\\ \\ imunogl obul inebis zeoj axi

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i akavSirebs bazal ur membranas
uj redis membranis integrinebTan?
\\ \\ desmogI eini
\\ \\ desmopl akini
\\ \\ I aminini
\\ \\ III tipis kol ageni

\\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel s axasiaTebis yvel aze didi
raodenobiT uj redSorisi nivTierabis arseboba?
\\ \\ epiTel uri
\\ \\ SemaerTebel i
\\ \\ kunTovani
\\ \\ nervul i

\\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i faravs organizms garedan da
amofens Rru organoebs?
\\ \\ epiTel uri
\\ \\ SemaerTebel i
\\ \\ kunTovani
\\ \\ nervul i

\\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i ar Seicavs si xI ZarRvebs?
\\ \\ faSari SemaerTebel i
\\ \\ Zvl ovani qsovil i
\\ \\ cximovani
\\ \\ xrtil ovani

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar warmoqmni uj redSorisi
matriqss?
\\ \\ epiTel iociti
\\ \\ gl uvi miociti
\\ \\ neironi

\\ fibroblasti

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis epiTel ur qsovil s?

\\ uj redebis fenebad ganl ageba

\\ didi raodenobiT uj redSorisi nivTierebis arseboba

\\ sisxl ZarRvebis ararseboba

\\ pol aroba

\\ \\ qvemoT CamoTvl il i niSnebidan romel ia damaxasiaTebel i epiTel uri qsovil is im tipisaTvis, romel is upiratesad damcvel obiT funqcias asrul ebs?

\\ mraVal Srianoba

\\ cocxisebri yaeTani

\\ mraVal rigianoba

\\ pol aroba

\\ \\ qvemoT CamoTvl il i struqturbeidan roml is naxva ar aris SesaZl ebel i epiTel uri uj redis apikal ur zedapirze?

\\ mikroxaobi

\\ wamwamebi

\\ desmosomebi

\\ stereocil iebi

\\ \\ qvemoT CamoTvl il i struqturbeidan roml is naxvaa SesaZl ebel i epiTel uri da SemaerTebel i qsovil ebis sazRvarze?

\\ mkvrivi kontakti

\\ bazal uri membrana

\\ cocxisebri yaeTani

\\ desmosomebi

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ar aris damaxasiaTebel i epiTel uri qsovil isaTvis, romel ic upiratesad damcvel obiT funqcias asrul ebs?

\\ mraVal Srianoba

\\ garqovaneba

\\ maRal i regeneraciis unari

\\ cocxisebri yaeTani

\\ \\ qvemoT CamoTvl il i organoebidan sad mdebareobs cocxisebri yaeTaniS Semcvel i epiTel uri uj redebi?

\\ sasunTqi gzebi

\\ nefronis proqsimal uri kl aknil i mil aki

\\ saSvil osnos I ul a

\\ kani

\\ \\ qvemoT CamoTvl il Tagan romel i ar monawil eobs I orwos sekreciaSi?

\\ fialisebri uj redi

\\ kuWis mfaravi epiTel iumi

\\ ybayura jirkval i

\\ ybiskeSa jirkval i

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gv xvdeba mraVal rigiani epiTel iumis Semadgenl obaSi?

\\ cilindrul i wamwamiani

\\ cilindrul i yaeTnovani

\\ bazal uri

\\ fialisebri

\\\\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i mdebareobs yovel Tvis epiTel uri qsovil is qveS?

\\\\ mkvrivi formiani

\\\\ mkvrivi uformo

\\ faSari uformo

\\\\ retikul uri

\\\\ qvemoT CamoTvl il i Tavisburebebidan romel i ar axasiaTebis epiTel ur qsovil s?

\\\\ uj redebis mWidro ganl ageba

\\\\ apikal uri da bazal uri nawil ebis gansxvavebul i Seneba

\\ sisxl ZarRvebis arseboba

\\\\ bazal ur membranaze mdebareoba

\\\\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens Sardis gamomtan gzebs?

\\\\ mraval Sriani brtyel i garqovanebul i

\\\\ mraval rigiani cil indrul i

\\ mraval Sriani gardamaval i

\\\\ erTSriani brtyel i

\\\\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens gul mkerdis da mucl is Rrus?

\\\\ erTSriani kuburi

\\ mezoTel iumi

\\\\ endoTel iumi

\\\\ erTSriani cil indrul i

\\\\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i gv xvdeba Tirkml is mil akebSi?

\\ erTSriani kuburi

\\\\ erTSriani mraval rigiani

\\\\ mraval Sriani brtyel i

\\\\ mraval Sriani gardamaval i

\\\\ kanis romel i nawil i iqmneba mraval Sriani brtyel i garqovanebul i epiTel iumiT?

\\ epidermisi

\\\\ derma

\\\\ hipoderma

\\\\ jirkvl ebi

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs mraval Sriani brtyel i garqovanebul i epiTel uri qsovil i?

\\\\ sekrecia

\\\\ absorbcia

\\ dacva

\\\\ trofika

\\\\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i gv xvdeba Tirkml is mil akebSi?

\\ erTSriani kuburi

\\\\ erTSriani mraval rigiani

\\\\ mraval Sriani brtyel i

\\\\ mraval Sriani gardamaval i

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan roml isTvis aris
damaxasiaTebel i wamwamebis arseboba?

- \\ ertSriani brtyel i
- \\ ertSriani mraval rigiani
- \\ mraval Sriani gardamaval i
- \\ mraval Sriani brtyel i

\\ \\ qvemoT CamoTvl il i Tavi seburebebidan romel i axasiaTebis epiTel ur
qsovil s?

- \\ mdebareobs bazal ur membranaze
- \\ ara aqvs metapl aziis unari
- \\ mxol od eqtodermul i warmoSobisaa
- \\ didi raodenobiT sisxl ZarRvebs Seicavs

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ar axasiaTebis bazal ur firfitas?

- \\ gvxdება mxol od epiTel uri da SemaerTebel i qsovil is sazRvarze
- \\ Cans mxol od el eqtronul mikroskopSi
- \\ Sedgeba mkvrivi da naTel i firfitebisagan
- \\ SemaerTebel qsovil s Ruza fibril ebiT ukavSirdeba

\\ \\ qvemoT CamoTvl il i nivTiererebebidan romel i gvxdება didi raodenobiT
bazal uri membranis Semadgenl obaSi?

- \\ fibroneqtini
- \\ I aminini
- \\ hial uronis mJava
- \\ II tipis kol ageni

\\ \\ qvemoT CamoTvl il i organoebidan romel ia amofenil i jirkvl ovani
epTel iumiT?

- \\ sayl apavi
- \\ kuWi
- \\ wvri i nawl avi
- \\ msxvil i nawl avi

\\ \\ qvemoT CamoTvl il i funqciebidan romel i ar axasiaTebis epiTel ur
qsovil s?

- \\ sekrecia
- \\ absorbacia
- \\ SekumSva
- \\ dacva

\\ \\ qvemoT CamoTvl il i niSnebidan romel i gamoiyeneba epiTel uri qsovil is
kl asifikaciisaTvis?

- \\ bazal uri Sris uj redebis forma
- \\ epiTel uri uj redebis Sreebis raodenoba
- \\ bazal uri firfitis arseboba
- \\ birTvebis zoma

\\ \\ sekreciis qvemoT CamoTvl il i tipebidan roml is dros iSl eba uj redi
mTl ianad?

- \\ merokrinul i
- \\ apokrinul i
- \\ hol okrinul i
- \\ autokrinul i

- \\ \\ \\ sekreciis qvemoT CamoTvl il i tipebidan roml is dros xdeba uj redis citopl azmis apikal uri nawil is kargva?
- \\ \\ merokrinul i
- \\ \\ apokrinul i
- \\ \\ hol okrinul i
- \\ \\ autokrinul i

- \\ \\ \\ egzokrinul i jirkvl ebis martiv da rTul jirkvl ebad kl asifikacia xdeba:
- \\ \\ sadinrebis raodenobis mixedviT
- \\ \\ terminal uri nawil is formis mixedviT
- \\ \\ sadinrebis datotvis xarisxis mixedviT
- \\ \\ terminal uri nawil ebis raodenobis mixedviT

- \\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs egzokrinul jirkval s, romel sac erTi sadinari da mrgval i terminal uri nawil i aqvs?
- \\ \\ martivi mil akovani
- \\ \\ rTul i mil akovani
- \\ \\ martivi al veol uri
- \\ \\ rTul i al veol uri

- \\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba terminal ur nawil s, roml is uj redebi l orwos gamoimuSaveben?
- \\ \\ serozul i
- \\ \\ mukozuri
- \\ \\ al veol uri
- \\ \\ fol ikul uri

- \\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba terminal ur nawil s, roml is uj redebi cil ovani bunebis sekrets gamoimuSaveben?
- \\ \\ serozul i
- \\ \\ mukozuri
- \\ \\ qonis
- \\ \\ fial iseбри

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis epiTel ur qsovil s?
- \\ \\ uj redebis fenebad ganl ageba
- \\ \\ didi raodenobiT uj redSorisi nivTierebis arseboba
- \\ \\ sisxl ZarRvebis ararseboba
- \\ \\ pol aroba

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis epiTel ur qsovil s?
- \\ \\ uj redebis mWidro ganl ageba
- \\ \\ apikal uri da bazal uri nawil ebis gansxvavebul i Seneba
- \\ \\ sisxl ZarRvebis arseboba
- \\ \\ bazal ur membranaze mdebareoba

- \\ \\ \\ qvemoT CamoTvl il i organoebidan romel s axasiaTebis yaeTnovani epiTel iumis arseboba?
- \\ \\ wvri l i nawl avi
- \\ \\ Sardis buSti
- \\ \\ sisxl ZarRvi
- \\ \\ l imfuri ZarRvi

- \\ \\ qvemoT CamoTvl il i egzokrinul i jirkvl ebidan romel s ar aqvs gamomtani sadinari?
- \\ \\ martivi mil akovani
- \\ \\ martivi serozul i
- \\ \\ fial isebri
- \\ \\ rTul i al veol uri

- \\ \\ qvemoT CamoTvl il i fibril uri cil ebidan romel i Sedis mraval Sriani brtyel i garqovanebul i epiTel iumis Semadgenl obaSi?
- \\ \\ kol ageni
- \\ \\ el astini
- \\ \\ keratini
- \\ \\ el eidini

- \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel s aZl evs dasabams eqtoderma?
- \\ \\ rqovanas mraval Sriani gaurqovanebel i epiTel iumi
- \\ \\ Tirkml is mil akebis epiTel iumi
- \\ \\ mezoTel iumi
- \\ \\ traqeis mraval rigiani mocimcime epiTel iumi

- \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel s aZl evs dasabams endoderma?
- \\ \\ mraval Sriani brtyel i garqovanebul i
- \\ \\ mraval Sriani brtyel i gaurqovanebel i
- \\ \\ mraval rigiani cil indrul i mocimcime
- \\ \\ ertSriani brtyel i

- \\ \\ qvemoT CamoTvl il i organoebis amomfeni epiTel iumidan romel i warmoiqmneba mezenqimidan?
- \\ \\ Tirkml is mil akebis
- \\ \\ sisxl ZarRvebis
- \\ \\ sayl apavis
- \\ \\ saSvil osnos

- \\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs epiTel uri qsovil is pol arobas?
- \\ \\ sekreciis unari
- \\ \\ uj redebis fenebad ganl ageba
- \\ \\ mosazRvre mdebareoba
- \\ \\ sisxl ZarRvebis ararseboba

- \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis mikroxaos?
- \\ \\ uZravi wamwamia
- \\ \\ uj redis bazal ur zedapirze mdebareobs
- \\ \\ zrdis uj redis zedapiris farTobs
- \\ \\ iqmneba mikromil akebis 9 tripl etiT

- \\ \\ qvemoT CamoTvl il i struqturebidan romel i ar gv xvdeba epiTel uri uj redebis apikal ur zedapirze?
- \\ \\ mikroxaoebi
- \\ \\ hemidesmosomebi
- \\ \\ stereocil iebi
- \\ \\ wamwamebi

- \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis martiv jirkval s?

- \\ mxol od erTi terminal uri nawil is arseboba
- \\ mxol od erTi sadinris arseboba
- \\ sadinris ararseboba
- \\ intraepitel uri mdebareoba

- \\ \\ \\ qvemoT CamoTvl il i nivTierebebidan romel s gamoyofs fial iseбри
uj redebi?
- \\ serozul i siTxe
- \\ mucini (l orwo)
- \\ nerwyvi
- \\ hormonebi

- \\ \\ \\ epitel uri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens
egzokrinul i jirkvl ebis gamomtan sadinrebs?
- \\ mraval Sriani gardamaval i
- \\ mraval Sriani cil indrul i
- \\ erTSriani mraval rigiani
- \\ erTSriani brtyel i

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis merokrinul sekrecias?
- \\ ar gvxdaba endokrinul jirkvl ebSi
- \\ egzocitozis gziT mmdinareobs
- \\ jirkvl ovari uj redebis apikal uri nawil ebis kargvas iwvevs
- \\ endocitozis nairsaxeobaa

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i ganasxvavebs egzokrinul jirkvl ebs
endokrinul i jirkvl ebisagan?
- \\ epitel uri warmoSoba
- \\ sekreciis unari
- \\ sadinris arseboba
- \\ gl andul ocitebis bazal ur membranaze mdebareoba

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis stereocilias
- \\ uj redis grZel i umozrao morcia
- \\ gvxdaba haergamtar gzebSi
- \\ uzravi wamwamia
- \\ Seicavs aqsonemas

- \\ \\ \\ qvemoT CamoTvl il i funqciebidan romel Si monawil eobs mioepitel uri
uj redi?
- \\ fagocitozi
- \\ sekretis gamodevna gl andul ocitidan
- \\ gl andul ocitebis regeneracia
- \\ bazal uri membranis komponentebis warmoqmna

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis martiv jirkvals?
- \\ mxol od erTi terminal uri nawil is arseboba
- \\ mxol od erTi sadinris arseboba
- \\ sadinris ararseboba
- \\ mraval i sadinris arseboba

- \\ \\ \\ sasignal o mol ekul ebis moqmedebis qvemoT CamoTvl il i tipebidan roml is
meSveobit xdeba Sors mdebare samizne uj redebis moqmedebis regulacia?
- \\ autokrinul i
- \\ parakrinul i
- \\ neirokrinul i

\\ endokrinul i

\\\ jirkvl ebis qvemoT CamoTvl il i tipebidan romel s ekuTvnis kuWis fundusis jirkvl ebi?

\\ martivi mil akovani
\\\ martivi al veol uri
\\\ rTul i al veol uri
\\\ rTul i mil akovani

\\\ jirkvl ebis qvemoT CamoTvl il i tipebidan romel s ekuTvnis Tormetgoj a nawl avis bruneris jirkvl ebi?

\\ martivi mil akovani
\\\ martivi al veol uri
\\\ rTul i al veol uri
\\ rTul i mil akovani

\\\ jirkvl ebis qvemoT CamoTvl il i tipebidan roml is anal ogs warmoadgens nawl avis kriptebi?

\\ martivi mil akovani
\\\ martivi al veol uri
\\\ rTul i al veol uri
\\\ rTul i mil akovani

\\\ jirkvl ebis qvemoT CamoTvl il i tipebidan romel s ekuTvnis ybayura jirkval i?

\\ martivi mil akovani
\\\ martivi al veol uri
\\ rTul i al veol uri
\\\ rTul i mil akovani

\\\ jirkvl ebis qvemoT CamoTvl il i tipebidan romel s ekuTvnis ybಿಸqueSa jirkval i?

\\\ martivi al veol uri datotvil i
\\\ rTul i al veol uri
\\ rTul i al veol ur-mil akovani
\\\ martivi mil akovani dautotvel i

\\\ jirkvl ebis qvemoT CamoTvl il i tipebidan romel s ekuTvnis enisqveSa jirkval i?

\\\ martivi al veol uri datotvil i
\\\ rTul i al veol uri
\\ rTul i al veol ur-mil akovani
\\\ martivi mil akovani dautotvel i

\\\ sanerwyve jirkvl ebis qvemoT CamoTvl il i tipebidan romel i warmoadgens rTul al veol ur-mil akovan jirkval s?

\\\ ybayura da ybಿಸqueSa
\\\ ybayura da enisqveSa
\\ ybಿಸqueSa da enisqveSa
\\\ ybayura, ybಿಸqueSa da enisqveSa

\\\ qvemoT CamoTvl il i sanerwyve jirkvl ebidan romel i gamoimuSavebs Sereul , I orwovan-serozul sekrets?

\\\ ybayura da ybಿಸqueSa
\\\ ybayura da enisqveSa
\\ ybಿಸqueSa da enisqveSa

\\ ybayura, ybi sqveSa da eni sqveSa

\\ \\ qvemoT CamoTvl il i jirkvl ebidan roml isTvis aris damaxasiaTebel i mikroapokrinul i sekrecia?

\\ pankreasi

\\ sarZeve jirkval i

\\ ybayura jirkval i

\\ kuWis fundusis jirkvl ebi

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs SemaerTebel i qsovil i?

\\ trofikul i

\\ damcvel obiTi

\\ regeneraciul i

\\ absorbciul i

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs SemaerTebel i qsovil i?

\\ absorbcia

\\ el eqtrul i impul sis generacia

\\ damcvel obiTi

\\ SekumSva

\\ \\ qvemoT CamoTvl il Tagan romel i ar ekuTvnis sakuTriv SemaerTebel qsovil s?

\\ faSari

\\ mkvrivi formiani

\\ mkvrivi uformo

\\ retikul uri

\\ \\ qvemoT CamoTvl il i boWkoebidan romel i ar gvxxvdeba sakuTriv SemaerTebel qsovil Si?

\\ kol agenuri

\\ el astikuri

\\ retikul uri

\\ qondrinis

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gvxxvdeba faSar SemaerTebel qsovil Si?

\\ fibrobl asti

\\ qondrobl asti

\\ makrofagi

\\ I imfociti

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gvxxvdeba faSar SemaerTebel qsovil Si?

\\ pl azmuri uj redi

\\ makrofagi

\\ cximovani uj redi

\\ gl iuri makrofagi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i warmoqmnis SemaerTebel i qsovil is uj redSor is matriqss?

\\ makrofagi

\\ fibrobl asti

\\ fibrociti

\\ pl azmuri uj redi

\\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTebis fibrobl asts?
\\ ZiriTadi nivTierebis sinTezi
\\ \\ antisxeul ebis warmoqmna
\\ \\ metaqromaziul i granul ebis warmoqmna
\\ \\ fagocitozSi monawil eoba

\\ \\ qvemoT CamoTvl il i uj redebidan roml is winamorbedia Bl imfociti?
\\ \\ makrofagi
\\ \\ pl azmuri uj redi
\\ \\ poxieri uj redi
\\ \\ fibrobl asti

\\ \\ qvemoT CamoTvl il i uj redebidan romel i aZl evs dasabams makrofags?
\\ \\ monociti
\\ \\ mezenqimociti
\\ \\ l imfociti
\\ \\ fibrobl asti

\\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs antisxeul ebis
warmoqmnaSi?
\\ \\ fibrobl asti
\\ \\ makrofagi
\\ \\ pl azmuri
\\ \\ poxieri

\\ \\ qvemoT CamoTvl il i uj redebidan roml is winamorbedi uj redebi ar
warmoiqmneba Zvl is wiTel tvinSi?
\\ \\ fibrobl asti
\\ \\ l imfociti
\\ \\ pl azmuri
\\ \\ makrofagi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i Seicavs hepariniTa da histaminiT
mdidar granul ebs?
\\ \\ fibrobl asti
\\ \\ l imfociti
\\ \\ makrofagi
\\ \\ poxieri

\\ \\ qvemoT CamoTvl il i ubnebidan sad xdeba poxieri uj redebis winamorbedebis
warmoqmna?
\\ \\ faSari SemaerTebel i qsovil i
\\ \\ mezenqima
\\ \\ Zvl is wiTel i tvini
\\ \\ mkvrivi SemaerTebel i qsovil i

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i uj redebidan romel i
monawil eobs al ergiul reaqciebSi?
\\ \\ fibrobl asti
\\ \\ fibrociti
\\ \\ poxieri
\\ \\ cximovani

\\ \\ qvemoT CamoTvl il i struqturebidan romel s Seicavs didi raodenobiT
mkvrivi SemaerTebel i qsovil i?

- \\ uj redebi
- \\ ZiriTadi nivTiereba
- \\ el astikuri boWkoebi
- \\ kol agenuri boWkoebi

\\ \\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i mdebareobs uSual od epiTel uri qsovil is qveS?

- \\ retikul uri qsovil i
- \\ mkvrivi formiani SemaerTebel i qsovil i
- \\ faSari SemaerTebel i qsovil i
- \\ cximovani qsovil i

\\ \\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i monawil eobs siTbos warmoqmnaSi?

- \\ xrtil ovani qsovil i
- \\ ruxi cximovani qsovil i
- \\ retikul uri qsovil i
- \\ el astikuri qsovil i

\\ \\ \\ qvemoT CamoTvl il i niSnebidan roml is didi raodenobiT arseboba ganapirobebs ruxi cximovani qsovil is Seferil obas?

- \\ cximovani wveTebis
- \\ sisxl ZarRvebis
- \\ I izosomebis
- \\ peroqsisomebis

\\ \\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis sisxl mbad organoebs?

- \\ cximovani
- \\ I orwovani
- \\ retikul uri
- \\ el astikuri

\\ \\ \\ kol agenis qvemoT CamoTvl il i tipebidan romel ia yvel aze mtkice da mraval ricxovani organizmSi?

- \\ I
- \\ II
- \\ III
- \\ IV

\\ \\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i boWkoebidan romel s ewodeba argirofil uri?

- \\ kol agenuri
- \\ el astikuri
- \\ retikul uri
- \\ oqsital anis

\\ \\ \\ romel i tipis kol ageni qmnis retikul ur boWkoebs?

- \\ I
- \\ II
- \\ III
- \\ IV

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i gv xvdeba mkvriv SemaerTebel qsovil Si?

- \\ fibroblasti
- \\ fibrocyti
- \\ adipociti
- \\ retikuluri ujredi

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romelia gansakuTrebit mtkice?

- \\ faSari
- \\ mkvrivi formiani
- \\ mkvrivi uformo
- \\ retikuluri qsovil i

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i nivTierebebidan romel sar iyenebs adipociti cximovani mJavebis warmosaqmnel ad?

- \\ gl ukoza
- \\ qil omikronebi
- \\ Zalian dabal i simkvrivis l ipoproteinebi
- \\ maRali simkvrivis l ipoproteinebi

\\ \\ qvemoT CamoTvl il i organel ebidan romelia yvel aze kargad ganviTarebul i pl azmur uj redsi?

- \\ mitoqondria
- \\ l izosoma
- \\ marcvl ovani endopl azmuri bade
- \\ umarcvl o endopl azmuri bade

\\ \\ qvemoT CamoTvl il i niSnebidan romel i udevs safuZvl ad sakuTriv SemaerTebel i qsovil is kl asifikacias?

- \\ uj redebis raodenoba
- \\ uj redebis tipebi
- \\ matriqsisel ementebis ganawil ebis Tavisebureba
- \\ uj redebis ganawil ebis Tavisebureba

\\ \\ qvemoT CamoTvl il i uj redebidan romel is winamorbedi uj redebi ar warmoiqmneba Zvl is wiTel tvins?

- \\ fibroblasti
- \\ pl azmuri ujredi
- \\ poxieri ujredi
- \\ makrofagi

\\ \\ qvemoT CamoTvl il i Tagan romel is maRali Semcvel oba ganapirobebs poxieri uj redebis granul ebis metaqromaziis unars?

- \\ l izosomuri fermentebi
- \\ gl ikozaminoglikanebi
- \\ Jangviti fermentebi
- \\ cximovani mJavebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis pl azmur uj reds?

- \\ kargad ganviTarebul i marcvl ovani endopl azmuri bade
- \\ golj is aparatis central uri mdebareoba
- \\ citopl azmis bazofilia
- \\ sxvadasxva antigenis mamarT antisxeul ebis sintezi

\\ \\ qvemoT CamoTvl il i niSnebidan romel iT gansxvavdeba mkvrivi SemaerTebel i qsovil i faSarisagan?

\ \ iSviaTi boWkoebis mowesrigebul i ganl agebiT
 \ \ didi raodenobiT kol agenuri boWkoebis arsebobiT
 \ \ pl azmuri uj redebis maRal i Semacvel obiT
 \ \ ZiriTadi nivTierebis SedarebiT maRal i Semcvel obiT

\ \ \ \ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i mdebareobs yovel Tvis epiTel uri qsovil is qveS?

\ \ mkvrivi formiani
 \ \ mkvrivi uformo
 \ \ faSari uformo
 \ \ retikul uri

\ \ \ \ qvemoT CamoTvl il i boWkoebidan romel i uqmnis natif sayrdens rbil qsovil ebs?

\ \ el astikuri boWkoebi
 \ \ retikul uri boWkoebi
 \ \ I tipis kol agenuri boWkoebi
 \ \ II tipis kol agenuri boWkoebi

\ \ \ \ qvemoT CamoTvl il i ubnebidan romel Si gvxxvdeba hial inuri xrtil i?

\ \ boqvenis simfizi
 \ \ mal TaSua diskoebi
 \ \ sasaxsre zedapi rebi
 \ \ yuris niJara

\ \ \ \ qvemoT CamoTvl il i ubnebidan romel Si gvxxvdeba kol agenurboWkovani xrtil i?

\ \ sasaxsre zedapi rebi
 \ \ xorxsarqvel i
 \ \ boqvenis simfizi
 \ \ Tavis qal as nakerebi

\ \ \ \ qvemoT CamoTvl il i qsovil ebidan roml is Semadgenl obaSi gvxxvdeba didi raodenobiT II tipis kol agenuri fibril ebi?

\ \ Zvl ovani qsovil i
 \ \ hial inuri xrtil i
 \ \ faSari SemaerTebel i qsovil i
 \ \ cximovani qsovil i

\ \ \ \ qvemoT CamoTvl il i ubnebidan romel Si gvxxvdeba kol agenurboWkovani xrtil i?

\ \ mal TaSua disko
 \ \ sasaxsre zedapi rebi
 \ \ qal as nakerebi
 \ \ neknebis dabol oebebi

\ \ \ \ qvemoT CamoTvl il i uj redebidan romel i warmoqmnis xrtil ovani qsovil is uj redSor is matriqss?

\ \ fibrobl asti
 \ \ qondrociti
 \ \ qondrobl asti
 \ \ fibrociti

\ \ \ \ qvemoT CamoTvl il i structurebidan romel Si ar gvxxvdeba hial inuri xrtil i?

\ \ xorxsarqvel i

\\ sasaxsre zedapi rebi
\\ traqea
\\ bronqebi

\\ \\ qvemoT CamoTvl il i struqturidan romel Si gvxdaba el astikuri xrtil i?
\\ xorxsarqvel i
\\ boqvenis simfizi
\\ traqea
\\ mal TaSua disko

\\ \\ qvemoT CamoTvl il i struqturidan romel Si ar gvxdaba el astikuri
xrtil i?
\\ xorxsarqvel i
\\ xorxi
\\ yuris niJara
\\ bronqebi

\\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs hial inur xrtil Si
qondrocitebi?
\\ izogenur j gufebSi
\\ xrtil is periferiaze
\\ kafsul ur matriqsSi
\\ kafsul aTaSor is matriqsSi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnava uj redSor is
nivTierebas, romel ic izogenur j gufebSi mdebareobs?
\\ kafsul uri matriqsi
\\ teritoriul i matriqsi
\\ interkafsul uri matriqsi
\\ xrtil sazrdel a

\\ \\ qvemoT CamoTvl il i romel i gziT xorciel deba sasaxsre zedapi rebis
xrtil ovani qsovil is regeneracia?
\\ apoziciuri zrda
\\ intersticiul i zrda
\\ mezenqimocitebis gamravl eba
\\ sasaxsre CanTis fibrobl astebis gamravl eba

\\ \\ qvemoT CamoTvl il Tagan, romel i organul i nivTiereba ganapirobebs
kafsul uri matriqsis bazofil ias?
\\ gl ikozaminogl ikanebi
\\ qondroneqtini
\\ fibroneqtini
\\ kol ageni

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis kol agenur-boWkovan
xrtil s?
\\ el astikuri boWkoebis didi raodenoba
\\ qondrocitebis izogenur j gufebs ar arseboba
\\ I tipis kol agenuri boWkoebis arseboba
\\ epifizur firfitaSi mdebareoba

\\ \\ hial inuri xrtil is qvemoT CamoTvl il i ubnebidan romel i Seicavs yvel aze
didi raodenobiT gl ikozaminogl ikanebs?
\\ xrtil sazrdel a
\\ kafsul uri matriqsi

\\ kafsul aTaSorisi matriqsi
\\ qondrobl astebis Semcvel i ubani

\\ \\ qvemoT CamoTvl il i struqturidan roml is arseboba ar aris
damaxasiaTebel i sasaxsre zedapirebis xrtil isTvis?

\\ qondrocitebis izogenuri j gufebi
\\ xrtil sazrdel a
\\ kafsul uri matriqsi
\\ kafsul aTaSorisi matriqsi

\\ \\ proteogl ikanis mol ekul aSi qvemoT CamoTvl il i
gl ikozaminogl ikanebidan romel i ar ukavSirdeba RerZul cil as?

\\ dermatan sul fati
\\ qondroitin gogirdmJava
\\ keratan sul fati
\\ hial uronis mJava

\\ \\ qvemoT CamoTvl il i organul i nivTierebebidan romel ia didi raodenobiT
kafsul ur matriqsSi?

\\ kol ageni
\\ el astini
\\ struqturul i gl ikoproteinebi
\\ gl ikozaminogl ikanebi

\\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs xrtil is zrdis Sewyvetas
momwifebul xrtil Si?

\\ xrtil is matriqss ara aqvs gafarToebis unari
\\ momwifebis Semdeg xrtil i ganicdis enqondrul gaZval ebas
\\ sixl ZarRvebis arqonis gamo, xrtil ovani uj redebis metabol izmis xarisxi
Zal ian dabal ia
\\ qondrocitebis kvdomis xarisxi Zal ian maRal ia

\\ \\ xrtil ovani da Zvl ovani qsovil is qvemoT CamoTvl il i saxeebidan romel i
ar aris dafarul i mkvrivi SemaerTebel i qsovil iT (xrtil sazrdel aTi an
Zvl isazrdel aTi?)

\\ kompakturi Zval i
\\ el astikuri xrtil i
\\ kol agenurboWkovani xrtil i
\\ hial inuri xrtil i

\\ \\ qvemoT CamoTvl il i Tvissebidan romel i axasiaTebis xrtil ovan qsovil s?

\\ dabal i metabol uri aqtivoba
\\ l imfuri ZarRvebisa da nervebis arseboba
\\ sasaxsre zedapirebze xrtil sazrdel as arseboba
\\ maRal i regeneraciis unari

\\ \\ qvemoT CamoTvl il i Zvl ovani uj redebidan romel s aqvs Zvl is matriqsis
daSl is unari?

\\ osteobl asti
\\ osteokl asti
\\ osteociti
\\ osteoprogeni tori

\\ \\ qvemoT CamoTvl il Tagan romel i termini aRniSnavs Rrus, romel Sic
osteociti mdebareobs?

\\ foso

- \\ I akuna
- \\ \\ ormo
- \\ \\ Rru

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i warmomnis Zvl ovani qsovil is uj redSor is nivTierebas?

- \\ osteobl asti
- \\ \\ osteociti
- \\ \\ osteokl asti
- \\ \\ oteoprogeni tori

\\ \\ \\ qvemoT CamoTvl il i romel s ar asrul ebs Zvl ovani qsovil i?

- \\ \\ sayrdeni
- \\ \\ kal ciumis depo
- \\ \\ damcvel obiTi
- \\ \\ trofikul i

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTeb s osteokl astebs?

- \\ \\ mcire zoma
- \\ \\ gl uvi zedapiri
- \\ \\ osteonis RruSi mdebareoba
- \\ \\ kal citoninis receptorebis arseboba

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTeb s tl anqboWkovan Zvl ovan qsovil s?

- \\ \\ mineral izaciis maRal i xarisxi
- \\ \\ uj redebis mcirericxovneba
- \\ \\ boWkoebis uwesrigo ganl ageba
- \\ \\ boWkoebis mowesrigebul i ganl ageba

\\ \\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i struqturebidan romel i uzrunvel yofs grZel i Zvl ebis sigrZeSi zrda s?

- \\ \\ sasaxsre zedapirebis xrtil i
- \\ \\ epifizuri firfita
- \\ \\ gaZval ebis pirvel adi centri
- \\ \\ gaZval ebis meoradi centri

\\ \\ \\ qvemoT CamoTvl il i iTagan romel i ar mimdinareobs pirdapiri osteogenezi s gziT?

- \\ \\ brtyel i Zvl ebis warmomna
- \\ \\ mokl e Zvl ebis sigrZeSi zrda
- \\ \\ grZel i Zvl ebis sigrZeSi zrda
- \\ \\ grZel i Zvl ebis gamsxvil eba

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs Zval Si osteokl astebi?

- \\ \\ osteonis RruSi
- \\ \\ houSifis I akunebSi
- \\ \\ vol kmanis arxSi
- \\ \\ endosteumSi

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTeb s osteocitebs?

- \\ \\ I akunebSi mdebareoba
- \\ \\ cil indrul i forma
- \\ \\ monocituri warmoSoba
- \\ \\ Tavisufal i zonis arseboba

\\ \\ \\ qvemoT CamoTvl il i Zvl ovani uj redebidan roml is funqciis darRveva ganapirobebs osteopetrozis ganviTarebas?

- \\ \\ osteobl astebe
- \\ \\ osteocitebe
- \\ \\ osteokl astebe
- \\ \\ osteoprogeni torebe

\\ \\ \\ qvemoT CamoTvl il i Zvl ovani uj redebidan roml is zedapirze gvxxvdeba kal citoninis receptorebe?

- \\ \\ osteobl astebe
- \\ \\ osteocitebe
- \\ \\ osteokl astebe
- \\ \\ osteoprogeni torebe

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i akavSirebs erTmaneTTan osteonebs?

- \\ \\ intersticiul i firfitebe
- \\ \\ endosteumi
- \\ \\ houSifis I akunebe
- \\ \\ SigniTa general uri firfitebe

\\ \\ \\ qvemoT CamoTvl il i uj redebidan roml is funqciur aqTivobasTan aris dakavSirebul i Rrubl isebr Zvl ebis warmoqmna?

- \\ \\ mezenqimociti
- \\ \\ makrofagi
- \\ \\ monociti
- \\ \\ osteokl asti

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ganasxvavebs upiratesad Rrubl isebr Zval s kompaqturi Zvl isagan?

- \\ \\ mezenqimuri warmoSoba
- \\ \\ osteonebis arseboba
- \\ \\ hidroqsiapatitis marcvl ebis ararseboba
- \\ \\ Rruebis arseboba

\\ \\ \\ qvemoT CamoTvl il Tagan romel i dasaxel eba Seesabameba vitamin D-s nakl ebobiT gamowveul Zvl ovani matriqsis mineral izaciis procesis darRvevas?

- \\ \\ osteomal acia
- \\ \\ osteoporoz
- \\ \\ raqiti
- \\ \\ sqol iozi

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i ar Sedis haversis sistemis Semadgenl obaSi?

- \\ \\ osteonis Rru
- \\ \\ osteocitebe
- \\ \\ cil indrul i Zvl ovani firfitebe
- \\ \\ intersticiul i firfitebe

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i warmoadgens ConCxis kunTis individual uri uj redis saxel wodebas?

- \\ \\ miotomi
- \\ \\ miofil amenti
- \\ \\ kunTovani boWko
- \\ \\ miofibril a

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba mkvriV SemaerTebel qsovil s, romel ic gars akravs kunTs?

- \\ \\ sarkol ema
- \\ \\ perimiziumi
- \\ \\ epimiziumi
- \\ \\ endimiziumi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba mkvriV SemaerTebel qsovil s, romel ic gars akravs kunTovani boWkoebis konas?

- \\ \\ sarkol ema
- \\ \\ perimiziumi
- \\ \\ epimiziumi
- \\ \\ endimiziumi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba faSar SemaerTebel qsovil s, romel ic gars akravs individual ur kunTovan boWkos?

- \\ \\ sarkol ema
- \\ \\ perimiziumi
- \\ \\ epimiziumi
- \\ \\ endimiziumi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs kunTovani uj redi s garss?

- \\ \\ sarkol ema
- \\ \\ endimiziumi
- \\ \\ perimiziumi
- \\ \\ epimiziumi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTeb s ConCxis kunTovan qsovil s?

- \\ \\ mraVal birTvi anoba
- \\ \\ ganivzol i anoba
- \\ \\ wagrZel ebul i forma
- \\ \\ birTvis central uri mdebareoba

\\ \\ qvemoT CamoTvl il i struqturebidan roml is arseboba damaxasiaTebel i ganivzol i ani kunTovani boWkosaTvis?

- \\ \\ CarTul i disko
- \\ \\ mkvriVi sxeul akebi
- \\ \\ motorul i bal Ta
- \\ \\ ganivi anastomozebi

\\ \\ qvemoT CamoTvl il i cil ebidan romel i monawil eobs upiratesad kunTovani uj redebis SekumSvis procesSi?

- \\ \\ aqtini da miogl obini
- \\ \\ aqtini da miozini
- \\ \\ miogl obini da kol ageni
- \\ \\ miozini da miogl obini

\\ \\ qvemoT CamoTvl il i struqturebidan romel i warmoadgens uSual od ConCxis ganivzol i ani kunTovani boWkos SemkumSav aparats?

- \\ \\ sarkol emis Canadrekebi
- \\ \\ miofibril ebi
- \\ \\ ganivi mil akebi
- \\ \\ sarkosomebi

\\ \\ qvemoT CamoTvl il i qimiuri nivTiererebidan roml is gamoyofa xdeba nervul i impul sis sapasuxod nerv-kunTovan sinafsSi (ConCxis kunTSi?)
\\ acetil qol ini
\\ adrenal ini
\\ dofamini
\\ noradrenal ini

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba aqsonis dabol oebas nerv-kunTovan sinafsSi (ConCxis kunTSi?)
\\ sinafsuri napral i
\\ motorul i bal Ta
\\ sinafsuri buStuki
\\ terminal uri bal Ta

\\ \\ qvemoT CamoTvl il i struqtirebidan romel i uzrunvel yofs nervul i impul sis Sesvl as ConCxis kunTovani boWkos siRrmeSi?
\\ endomiziumi
\\ sarkopl azmis T mil akebi
\\ sarkopl azmuri bade
\\ miofibril ebi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba erTi motorul i neironisa da mis mier inervirebul i kunTovani boWkoebis erTobl iobas?
\\ motorul i bal Ta
\\ motorul i erTeul i
\\ sarkomeri
\\ sinafsuri dabol oeba

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs kunTovani qsovil i?
\\ sxedul is moZraoba
\\ pozis SenarCuneba
\\ Sinagan organoebSi sxvadasxva nivTiererebebis gadaadgil eba
\\ organizmSi sxvadasxva nivTiererebebis maragis Seqmna

\\ \\ qvemoT CamoTvl il i cil ebidan romel i Sedis sqel i fil amentis Semadgenl obaSi?
\\ aqtini
\\ miozini
\\ troponini
\\ kol ageni

\\ \\ qvemoT CamoTvl il i cil ebidan romel i ar Sedis Txel i fil amentis Semadgenl obaSi?
\\ aqtini
\\ troponini
\\ tropomiozini
\\ kal modul ini

\\ \\ qvemoT CamoTvl il i cil ebidan romel i ar Sedis Txel i fil amentebis Semadgenl obaSi?
\\ aqtini
\\ troponini
\\ tropomiozini
\\ kol ageni

\\\\ qvemoT CamoTvl il i struqturidan romel i warmoadgens ganivzol iani miofibril as struqturul -funqciur erTeul s?

\\\\ sarkopl azmuri bade

\\\\ sarkomeri

\\\\ sarkol emis ganivi Canadrekebi

\\\\ sarkosoma

\\\\ qvemoT CamoTvl il i struqturidan romel i warmoadgens kal ciumis depos ConCxis ganivzol ian kunTovan boWkoSi?

\\\\ mitoqondria

\\\\ gol j is aparati

\\\\ gl uvi endopl azmuri bade

\\\\ l izosoma

\\\\ qvemoT CamoTvl il i kavSirebidan romel i ar Sedis CarTul i diskos Semadgenl obaSi?

\\\\ Sewebabis fascia

\\\\ Sewebabis sar tyel i

\\\\ desmosoma

\\\\ neqsusi

\\\\ CarTul i diskos qvemoT CamoTvl il i kavSirebidan romel i uzrunvel yofs impul is gavr cel ebas kardiomiocitebs Soris?

\\\\ Sewebabis fascia

\\\\ desmosoma

\\\\ neqsusi

\\\\ mkvrivi kontakti

\\\\ qvemoT CamoTvl il i kavSirebidan romel i Sedis CarTul i diskos Semadgenl obaSi?

\\\\ mkvrivi kontakti

\\\\ Sewebabis sar tyel i

\\\\ Sewebabis fascia

\\\\ hemidesmosoma

\\\\ CarTul i diskos qvemoT CamoTvl il i kavSirebidan romel i uzrunvel yofs miofibril ebis dakavSirebas sarkol emasTan?

\\\\ Sewebabis fascia

\\\\ desmosoma

\\\\ neqsusi

\\\\ mkvrivi kontakti

\\\\ qvemoT CamoTvl il i kunTovani uj redebidan romel i ukavSirdeba erTmaneTs CarTul i diskoebis meSveobiT?

\\\\ ConCxis ganivzol iani kunTovani boWko

\\\\ gul is kunTovani uj redebi

\\\\ gl uvi kunTovani uj redebi

\\\\ mioepiTel uri uj redebi

\\\\ kunTovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis Sinagani organoebis kunTovan garss umetes SemTxvevaSi?

\\\\ ConCxis ganivzol iani

\\\\ gul is ganivzol iani

\\\\ gl uvi

\\\\ mioepiTel uri

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS endomi zi ums?
\\ iqmneba bazal uri firfitiTa da retikul uri boWkoebiT
\\ \\ ar Seicavs I imfur kapil arebs
\\ \\ ar Seicavs sisxl ZarRevbs
\\ \\ iqmneba mkvrivi formiani SemaerTebel i qsovil iT

\\ \\ \\ qvemoT CamoTvl il i niSnebidan roml is arseboba axasiaTebS gul is kunTs?
\\ \\ mkvrivi sxoul akebi
\\ \\ gverdiTi anastomozebi
\\ \\ triadebi
\\ \\ motorul i bal Ta

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS gl uv miocits?
\\ \\ aqtinisa da miozinis fil amentebis mowesrigebul i ganl ageba
\\ \\ mkvrivi sxoul akebis arseboba
\\ \\ sarkomerebis arseboba
\\ \\ CarTul i diskoebis arseboba

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i ar axasiaTebS ConCxis ganivzol ian kunTovan boWkos?
\\ \\ miobl astebis SerwymiT warmoqmna
\\ \\ simpl asturi Seneba
\\ \\ mraVal birTvianoba
\\ \\ desmosomebi

\\ \\ \\ Txel i fil amentis Semadgenel i cil ebidan romel s aqvs miozinis TavTan dakavSirebis unari?
\\ \\ aqtini
\\ \\ tropomiozini
\\ \\ tropomodul ini
\\ \\ troponini

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs ganivzol ian miofibril aSi titini?
\\ \\ uzrunvel yofs miozinis Tavis fosforil ebas
\\ \\ sqel i da Txel i fil amentebS Soris ganiv kavSirebs warmoqmniS
\\ \\ akavSirebs sqel fil amentebS Zzol Tan
\\ \\ uzrunvel yofs sqel i fil amentebis srial s

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs ConCxis kunTis sarkopl azmuri retikul umi?
\\ \\ warmoadgens kal ciumis depos
\\ \\ depol arizaciis tal Ra Semoaqvs boWkos SigniT
\\ \\ aqtinisa da miozinis sinTezs axorciel ebs
\\ \\ Seicavs acetil qol inis receptorebs

\\ \\ \\ qvemoT CamoTvl il i struqturebidan roml is erTobl iobas warmoadgens CarTul i disko?
\\ \\ Sewebebis fascia, desmosoma da neqsusebi
\\ \\ desmosoma, mkvrivi kontakti, neqsusi
\\ \\ desmosoma, Sewebebis sar tyel i, hemidesmosoma
\\ \\ Sewebebis sar tyel i, brma sar tyel i, desmosoma

\\ \\ \\ gl uv kunTovan qsovil Si miozinis Tavis msubuqi j aWvis fosforil ebas ganapi robebs:
\\ \\ aqtini

- \\ troponini
- \\ Ca²⁺-kal modul ini
- \\ desmini

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mxol od gul isa da ConCxis kunTovan qsovil s?

- \\ desmosomebi
- \\ birTvis central uri mdebareoba
- \\ ganivzol iani miofibril a
- \\ mkvrivi sxeul akebi

\\ \\ mezoderms qvemoT CamoTvl il i ubnebidan romel i aZl evs dasabams gul is ganivzol ian kunTovan qsovil s?

- \\ Suamdebare mezoderma
- \\ Canasaxis kaudal uri nawil is lateral uri mezoderma
- \\ pir-xaxis mimdebare lateral uri mezoderma
- \\ gul mkerdis midamos somituri mezoderma

\\ \\ qvemoT CamoTvl il i embrionul i nergebidan romel i aZl evs dasabams gl uv kunTovan qsovil s?

- \\ eqtoderma
- \\ mezoderma
- \\ mezenqima
- \\ endoderma

\\ \\ qvemoT CamoTvl il i embrionul i nergebidan romel i aZl evs uSual od dasabams ConCxis ganivzol ian kunTovan qsovil s?

- \\ pirvel adi zol i
- \\ qorda
- \\ neiromezenqima
- \\ qordisaxl o mezoderma

\\ \\ qvemoT CamoTvl il i komponentebidan roml is Semadgenel i nawil ia bazal uri membrana?

- \\ endomizi umi
- \\ epimizi umi
- \\ fascia
- \\ perimizi umi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS Tmil akebs?

- \\ sarkopl azmuri retikul umis Canadrekebia
- \\ SekumSvis procesSi kal ciumis ionebis sekvestracias axdens
- \\ depol arizaciis tal Ra Seaqvs kunTovani boWkos siRmeSi
- \\ Seicavs acetil qol inis receptorebis did raodenobas

\\ \\ qvemoT CamoTvl il Tagan ra gziT ukavSirdeba gl uv kunTovan qsovil Si miozini aqtins?

- \\ damoukidebl ad
- \\ troponin-tropomioziniS kompl eqsis kal ciuTan dakavSirebis Semdeg
- \\ aqtinis fosforil ebis Semdeg
- \\ mioziniS Tavis msubuqi j aWvis fosforil ebis Semdeg

\\ \\ qvemoT CamoTvl il Tagan ra gziT axorciel ebs mioziniS Tavi atf-s hidrol izz?

- \\ damoukidebl ad
- \\ aqtinTan dakavSirebis Semdeg

- \\ kal ciumis ionTan dakavSirebis Semdeg
- \\ tropomiozinTan dakavSirebis Semdeg

\\ \\ daasaxel eT struqturabis swori Tanmimdevroba, romel sac gaivl is depol arizaciis tal Ra mas Semdeg rac acetil qol ini gamoTavisufi deba sinafsur napral Si.

- \\ T mil aki, terminal uri cisterna, presinafsuri membrana, sarkol ema
- \\ sarkopl azmuri retikul umi, T mil aki, presinafsuri membrana, sarkopl azma
- \\ terminal uri cisterna, sarkol ema, sarkopl azmuri retikul umi, kaveol ebi
- \\ sarkol ema, T mil aki, terminl uri cisterna, sarkopl azmuri retikul umi

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis mxol od gl uv kunTovan qsovil s?

- \\ T mil akebis Z zol ebis gaswvri mdebareoba
- \\ Txel i fil amentebi mkvri sxeul akebis ukavSirdeba
- \\ uj redebis mraval birTvianoba
- \\ birTvis central uri mdebareoba

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis gul isa da gl uv kunTovan qsovil ebs da ar gvxdება ConCxis kunTovan qsovil Si?

- \\ sarkomerebi
- \\ miofibril ebis arseboba
- \\ birTvis central uri mdebareoba
- \\ ramdenime birTvis arseboba

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons romel sac mxol od ori morci aqvs?

- \\ unipol arul i
- \\ bipol arul i
- \\ mul tipol arul i
- \\ fsevdounipol arul i

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons romel sac mraval i morci gaaCnia?

- \\ unipol arul i
- \\ bipol arul i
- \\ mul tipol arul i
- \\ fsevdounipol arul i

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons, romel ic mgrZnobiare da mamozravebel neironebs erTmaneTTan akavSirebs?

- \\ motorul i
- \\ endokrinul i
- \\ asociaciuri
- \\ sensorul i

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons, roml is sxeul idan erTi morci gamodis da Semdeg T-s magvarad iyofa?

- \\ unipol arul i
- \\ mul tipol arul i
- \\ bipol arul i
- \\ fsevdounipol arul i

\\ \\ neironis qvemoT CamoTvl il i organel ebidan romel i qmnis nisl is bazofil ur nivTierebas?

- \\ mitoqondriebi da gol j is aparati

- \\ \\ marcvl ovani da gl uvi endopl azmuri bade
- \\ Tavisufal i pol isomebi da marcvl ovani endopl azmuri bade
- \\ I izosomebi da peroqsisomebi

- \\ \\ \\ qvemoT CamoTvl il i kavSirebidan romel i gvxxvdeba nervul uj redebs Soris?
- \\ \\ desmosomebi
- \\ \\ mkvrivi kontakti
- \\ neqsusi
- \\ \\ Sewebebis sartyel i

- \\ \\ \\ qvemoT CamoTvl il i kavSirebidan roml is meSveobiT ukavSirdeba erTmaneTs nervul i uj redebi?
- \\ \\ desmosoma
- \\ \\ sinafsi
- \\ \\ mkvrivi kontakti
- \\ \\ hemidesmosoma

- \\ \\ \\ nervul i uj redis qvemoT CamoTvl il i nawil ebidan roml is irgvl iv iqmneba miel inis garsi?
- \\ \\ perikarioni
- \\ \\ aqsoni
- \\ \\ aqsonis dabol oeba
- \\ \\ dendriti

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis miel inis garss central ur nervul sistemaSi?
- \\ \\ ol igodendrogl iocitebi
- \\ \\ astrocitebi
- \\ \\ ependimocitebi
- \\ \\ mikrogl ia

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis miel inis garss periferiul nervul sistemaSi?
- \\ \\ ol igodendrogl iocitebi
- \\ \\ Svanis uj redebi
- \\ \\ astrocitebi
- \\ \\ ependimocitebi

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis ranvies Seviwroebas?
- \\ \\ didi raodenobiT natriumis arxebs Seicavs
- \\ \\ Txel i miel inis garsiT aris dafarul i
- \\ \\ mxol od dendritebSi gvxxvdeba
- \\ \\ astrocitebis morCebiT iqmneba

- \\ \\ \\ qvemoT CamoTvl il i struqturebidan romel s axasiaTes ranvies Seviwroebebis arseboba?
- \\ \\ perikarioni
- \\ \\ umiel ino nervul i boWko
- \\ \\ miel inuri nervul i boWko
- \\ \\ aqso-somaturi sinafsi

- \\ \\ \\ qvemoT CamoTvl il Tagan ra daniSnul eba aqvs ranvies Seviwroebas?
- \\ \\ impul sis swraf gavrcel ebas uwyobs xel s

- \\ impul sis warmoqmnis ubania
- \\ uj redis trofikul i centria
- \\ aqsonis zr das ganapirobebs

\\ \\ nervul i uj redis qvemoT CamoTvl il i funqciuri tipebidan romel s ekuTvnis fsevdounipol arul i neironebi?

- \\ motorul i
- \\ asociaciuri
- \\ mgrZnobiare
- \\ endokrinul i

\\ \\ nervul i uj redis qvemoT CamoTvl il i funqciuri tipebidan romel s ekuTvnis ufro xSirad bipol arul i neironebi?

- \\ motorul i
- \\ asociaciuri
- \\ mgrZnobiare
- \\ endokrinul i

\\ \\ nervul i uj redis qvemoT CamoTvl il i funqciuri tipebidan romel s ekuTvnis ZiriTadad mul tipol arul i neironebi?

- \\ motorul i
- \\ asociaciuri
- \\ mgrZnobiare
- \\ endokrinul i

\\ \\ qvemoT CamoTvl il i daxasiaTebebidan romel i Seesabameba yvel aze zustad gol j is l tipis neironebs?

- \\ didi zomis, mul tipol arul i da motorul i
- \\ didi zomis, mul tipol arul i da asociaciuri
- \\ mcire zomis, bipol arul i da asociaciuri
- \\ mcire zomis, fsevdounipol arul i da mgrZnobiare

\\ \\ qvemoT CamoTvl il i neironebidan romel i miekuTvneba gol j is l tipis neironebs?

- \\ naTxemis purkinies
- \\ zurgis tvinis asociaciuri
- \\ naTxemis marcvl ovani Sris
- \\ naTxemis varskvl avisebri Sris

\\ \\ neirogl iis qvemoT CamoTvl il i uj redebidan romel s aqvs monocituri warmoSoba?

- \\ ol igodendrogl ia
- \\ astrocitebi
- \\ mikrogl ia
- \\ ependimocitebi

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs ol igodendrogl iocitebi?

- \\ nervul i impul sis generireba
- \\ sayrdeni
- \\ miel inis garsis Seqmna
- \\ fagocitozi

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs astrocitur i gl ia?

- \\ sayrdeni
- \\ hema-encefal uri barrieris Seqmna

\\ miel inis garsis warmoqmna
\\ fagocitozi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs astrocitur i gl ia?
\\ miel inis garsis Seqmna
\\ nervul i impul sis gener ireba
\\ Tavzurgtvinis siTxis absorbcia
\\ sayrdeni

\\ \\ \\ qvemoT CamoTvl il i gl iuri uj redebidan romel i qmnis hema-encefal ur
bariers?
\\ ol igodendrogl iociti
\\ astrociti
\\ endimociti
\\ gl iuri makrofagi

\\ \\ \\ qvemoT CamoTvl il i gl iuri uj redebidan romel i amofens Tavis tvinis
parkuWebs da zurgis tvinis arxs?
\\ ol igodendrogl iociti
\\ astrociti
\\ endimociti
\\ mikrogl ia

\\ \\ \\ gl iis qvemoT CamoTvl il i uj redebidan roml is saxel ia gl iuri
makrofagi?
\\ ol igodendrogl iocitis
\\ astrocitis
\\ endimocitis
\\ mikrogl iis

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ar Sedis ruxi nivTierebis
Semadgenl obaSi?
\\ neironebis sxeul ebi
\\ miel inuri nervul i boWkoebi
\\ umiel ino nervul i boWkoebi
\\ neirogl ia

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ar gv xvdeba TeTr nivTierebaSi?
\\ miel inuri nervul i boWkoebi
\\ astrocitebi
\\ ol igodendrogl iocitebi
\\ perikarionebi

\\ \\ \\ zurgis tvinis qvemoT CamoTvl il i ubnebidan sad mdebareobs ruxi
nivTiereba?
\\ periferiaze
\\ wina fesvSi
\\ ukana fesvSi
\\ central ur ubanSi, zurgis tvinis arxis irgvl iv

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i gamoiyeneba periferiul
nervul sistemaSi funqciurad dakavSirebul i neironebis perikarionebis
grovebis aRsani Snavad?
\\ traqtebi
\\ kvanZebi
\\ birTvebi

\\ groovebi

\\ \\ \\ neironebis ramdeni Sre qmnis Tavis tvinis didi hemisferoebis qerqs?

\\ \\ 3

\\ \\ 4

\\ \\ 6

\\ \\ 7

\\ \\ \\ neironebis ramdeni Sre qmnis naTxemis qerqs?

\\ \\ 5

\\ \\ 3

\\ \\ 7

\\ \\ 4

\\ \\ \\ qvemoT CamoTvl il i neironebidan romel i qmnis mal TaSua kvanZs?

\\ \\ unipol arul i

\\ \\ fsevdounipol arul i

\\ \\ mul tipol arul i

\\ \\ bipol arul i

\\ \\ \\ neironebis qvemoT CamoTvl il i funqciuri tipebidan romel i qmnis mal TaSua kvanZs?

\\ \\ motorul i

\\ \\ sensorul i

\\ \\ asociaciuri

\\ \\ neiroendokrinul i

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ar gadaitaneba aqsonis gaswrviv?

\\ \\ ribosomebi

\\ \\ vezikul bi

\\ \\ neiromediatorebi

\\ \\ mitoqondriebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar viTardeba nervul i l ul idan?

\\ \\ ol igodendrogl iociti

\\ \\ astrociti

\\ \\ ependimociti

\\ \\ mikrogl ia

\\ \\ \\ ra ewodeba gl iur uj redebs, roml ebic mgrZnobiare kvanZebis fsevdounipol arul neironebs akravs gars?

\\ \\ ol igodedrogl iocitebi

\\ \\ astrocitebi

\\ \\ satel ituri uj redebi

\\ \\ Svanis uj redebi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i gamoiyeneba central ur nervul sistemaSi funqciurad dakavSirebul i neironebis perikarionebis grovebis aRsani Snavad?

\\ \\ kvanZebi

\\ \\ traqtebi

\\ \\ birTvebi

\\ \\ gorakebi

\\ \\ qvemoT CamoTvl il Tagan, zurgis tvinis romel ubanSi mdebareobs asociaciuri neironebis birTvebi?

\\ ruxi SesarTavi

\\ gverdiTi rqa

\\ ukana rqa

\\ wina rqa

\\ \\ qvemoT CamoTvl il Tagan, romel i tipis neironebi qmnis Tavis tvinis didi hemisferoebis qerqis gangl iur Sres?

\\ marcvl ovani

\\ TiTistarisebri

\\ mcire piramidul i

\\ giganturi piramidul i

\\ \\ CamoTvl il Tagn, naTxemis qerqis romel i uj redebi ekuTvnis gol j is l tips?

\\ varskvl avisebri neironebi

\\ kal aTisebri neironebi

\\ msxl iseberi uj redebi

\\ marcvl ovani uj redebi

\\ \\ qvemoT CamoTvl il Tagan, Tavis tvinis romel nervebs aqvs mxol od mgrZnobiare funqcia?

\\ mxedvel obis

\\ WaRisebri

\\ samwvera

\\ ganmzidvel i

\\ \\ qvemoT CamoTvl il i variantebidan airCieT Tavis tvinis garsebis ganl agebis (Signidan gareTa mimarTul ebiT) swori Tanmimdevroba:

\\ rbil i garsi, araqnoidi, epidurul i sivrce, magari garsi, subdurul i sivrce, subaraqnoidul i sivrce.

\\ rbil i garsi, subaraqnoidul i sivrce, araqnoidi, subdurul i sivrce, magari garsi

\\ araqnoidi, rbil i garsi, subaraqnoidul i sivrce, magari garsi, subdurul i sivrce

\\ magari garsi, araqnoidi, subdurul i sivrce, rbil i garsi, subaraqnoidul i sivrce

\\ \\ qvemoT CamoTvl il Tagan, neironebis romel morfol ogiur tips miekuTvneba CarTul i neironebis didi nawil i?

\\ mul tipol arul i

\\ bipolar arul i

\\ unipol arul i

\\ fsevdounipol arul i

\\ \\ qvemoT CamoTvl il i romel i meqanizmiT xdeba sinafsuri buStukebis transporti?

\\ retrogradul i swrafi

\\ retrogradul i nel i

\\ anterogradul i swrafi

\\ anterogradul i nel i

\\ \\ qvemoT CamoTvl il Tagan, nervul i sistemis romel ubanSi mdebareobs motorul i neironebis perikarionebi, roml ebic wvavis kunTebSi qmnis motorul bal Tebs?

\\ zurgis tvinis wina rqebi

\\ zurgis tvinis wina fesvi

- \\ zurgis tvinis ukana rqebi
- \\ zurgis tvinis ukana fesvi

\\ \\ ra ewodeba zurgis tvinis nervis monakveTs, romel ic mxol od eferentul boWkoebs Seicavs?

- \\ wina fesvi
- \\ ukana fesvi
- \\ ukana rqa
- \\ gverdiTi rqa

\\ \\ Tavis tvinis qvemoT CamoTvl il i nervebidan roml is birTvebi mdebareobs diencefal onSi?

- \\ sasunTqi
- \\ mxedvel obis
- \\ Tval is mamozravebel i
- \\ cTomil i

\\ \\ qvemoT CamoTvl il Tagan, nervul i uj redis romel ubanSi xdeba sxvadasxva saxis impul sis Sekreba da Sesabamisi pasuxis Camoyal ibeba?

- \\ perikarion
- \\ dendriti
- \\ aqsonis borcvi
- \\ aqsonis sawyisi segmenti

\\ \\ SearCieT SigniTa garsis Sreebis swori Tanmimdevroba kunTovani tipis arteriaSi.

- \\ endoTel iumi, SigniTa el astikuri membrana, subendoTel uri Sre
- \\ endoTel iumi, kunTovani Sre, subendoTel uri Sre
- \\ endoTel iumi, subendoTel iumi, SigniTa el astikuri membrana
- \\ endoTel iumi, subendoTel iumi, gareTa SemaerTebel qsovil ovani Sre

\\ \\ CamoTvl il Tagan, romel i niSnis arseboba ganasxvavebs didi zomis kunTovan da el astikuri tipis arteriebs erTmaneTisagan?

- \\ endoTel uri Sris
- \\ ZarRvTa ZarRvebis
- \\ Sua garsSi fenestrebiani el astikuri membranebis
- \\ adventiciuri garsis

\\ \\ qvemoT CamoTvl il i niSnebidan roml is arsebobaa damaxasiaTebel i gul is tipiuri (SemkumSavi) kardiomioci tebisatvis?

- \\ miofibril ebis simcire
- \\ birTvis periferiul i mdebareoba
- \\ CarTul i diskoebis arseboba.
- \\ sekreciul i granul ebis arseboba

\\ \\ qvemoT CamoTvl il i niSnebidan roml is arsebobaa damaxasiaTebel i gul is tipiuri (SemkumSavi) kardiomioci tebisatvis?

- \\ miofibril ebis mouwesrigebel i ganl ageba
- \\ birTvis periferiul i mdebareoba
- \\ sekreciul i granul ebi
- \\ gverdiTi anastomozebi

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis sisxl ZarRvebis adventiciur garss?

- \\ SemaerTebel i
- \\ cximovani

\\ retikul uri
\\ kunTovani

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis aortis Sua garss?
\\ gl uvi kunTovani
\\ faSari SemaerTebel i
\\ el astikuri SemaerTebel i
\\ mkvrivi formiani SemaerTebel i

\\ \\ qvemoT CamoTvl il i arteriebidan romel i miekuTvneba el astikuri tipis arterias?
\\ Tirkml is
\\ aorta
\\ kuWis
\\ RviZl is

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel s axasiaTebS SigniTa el astikuri membranS arseboba?
\\ kunTovani vena
\\ arteriol o-venul uri anastomozi
\\ saSual o zomis arteria
\\ sinusoiduri kapil ari

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel s axasiaTebS Sua garSSi sarkml ovani el astikuri membranS arseboba?
\\ kunTovani tipis arteria
\\ kunTovani tipis vena
\\ el astikuri tipis arteria
\\ kunTovan-el astikuri tipis arteria

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i axasiaTebS somaturi tipis kapil ars?
\\ farTo sanaTuri
\\ mravl obiTi fenestrebi
\\ cval ebadi diametri
\\ uwyveti endoTel iumi

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i uzrunvel yofs sisxl is pirdapir gadasvl as (kapil arul i qsel is gamotovebiT) arteriul i sistemidan venurSi?
\\ metarteriol ebi
\\ arteriol o-venul uri anastomozebi
\\ prekapil arul i arteriol ebi
\\ postkapil arul i venul ebi

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis gul - sisxl ZarRvTa sistemis SigniTa garsis endoTel ur Sres?
\\ erTSriani kuburi
\\ erTSriani brtyel i
\\ erTSriani mraval rigovani
\\ erTSriani cil indrul i

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i Seicavs yvel aze didi raodenobiT el astins Sua garSSi?
\\ aorta
\\ arteriol a

\\ sisxl is kapil ari
\\ Rru venebi

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i monawil eobs hema-encefal uri barrieris Camoyal ibebaSi?

\\ somaturi
\\ sinusoiduri
\\ viscerul i
\\ maRal endoTel iumiani

\\ \\ qvemoT CamoTvl il i procesebidan romel Si monawil eobs maRal endoTel iumiani venul ebi?

\\ I imfocitebis recirkul acia
\\ gl omerul uri fil trcia
\\ I imfocitebis diferneciacia
\\ airTa cvl a

\\ \\ ra formis endoTel uri uj redebi qmnis maRal endoTel iumian venul ebs?

\\ kuburi
\\ brtyel i
\\ cil indrul i
\\ mrgval i

\\ \\ qvemoT CamoTvl il i adheziuri mol ekul ebis romel j gufs ekuTvnis maRal endoTel iumiani venul ebis 'houmingis- mol ekul ebi?

\\ integrinebs
\\ imunogl obul inebis znoj axs
\\ sel eqtinebs
\\ kadherinebs

\\ \\ qvemoT CamoTvl il i organoebidan romel Si gv xvdeba somaturi kapil arebi?

\\ egzokrinul i j irkvl ebi
\\ ConCxis kunTi
\\ Tirkmel i
\\ Tavis tvini

\\ \\ qvemoT CamoTvl il i organoebidan romel Si gv xvdeba maRal endoTel iumiani venul ebi?

\\ RviZl i
\\ I imfuri kvanZi
\\ Tirkmel i
\\ fil tvi

\\ \\ gul is gamtari sistemis qvemoT CamoTvl il i ubnebidan sad mdebareobs purkini es boWkoebi?

\\ sinoatriul i kvanZi
\\ atrioventrikul uri kvanZi
\\ hisis kona
\\ vegetaciuri gangl ia

\\ \\ qvemoT CamoTvl il i organoebidan romel Si ar arsebobs I imfur ZarRvTa sistema?

\\ Tavis tvini
\\ Tirkmel i
\\ RviZl i
\\ fil tvi

\\ \\ ramdeni garsisgan Sedgeba sisxl ZarRvis kedel i?

\\ 3

\\ 4

\\ 2

\\ 5

\\ \\ qvemoT CamoTvl il i cvl il ebebidan romel s ganicdis venebi gul is mimarTul ebiT:

\\ \\ diametri izrdeba, kedl is sisqe mcirdeba

\\ \\ diametri mcirdeba, kedl is sisqe mcirdeba

\\ \\ diametri izrdeba, kedl is sisqe matul obs

\\ \\ diametri mcirdeba, kedl is sisqe matul obs

\\ \\ qvemoT CamoTvl il i organoebidan romel Si gvxdaba portul i sistemis sisxl ZarRvebi?

\\ \\ Tavis tvini

\\ \\ hipofizi

\\ \\ Tirkmel i

\\ \\ kuWi

\\ \\ qvemoT CamoTvl il i organoebidan romel Si iqmneba kapil arul i qsel i or arteriol as Soris?

\\ \\ RviZl i

\\ \\ Tirkmel i

\\ \\ hipofizi

\\ \\ el enTa

\\ \\ CamoTvl il Tagan romel i qsovil is saSual ebiT iqmneba yvel aze xSirad sisxl ZarRvis Sua garsi?

\\ \\ faSari SemaerTebel i

\\ \\ gl uvi kunTovani

\\ \\ el astikuri

\\ \\ mkvrivi SemaerTebel i

\\ \\ qvemoT CamoTvl il i cvl il ebebidan romel s aqvs adgil i arteriebis kedel Si maT datotvasa da diametris SemcirebasTan erTad?

\\ \\ izrdeba

\\ \\ mcirdeba

\\ \\ ar icvl eba

\\ \\ qreba

\\ \\ CamoTvl il Tagan, romel i tipis sisxl ZarRvebSi gvxdaba pericitebi?

\\ \\ kapil arebi

\\ \\ venebi

\\ \\ arteriol ebi

\\ \\ arteriebi

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs CarTul i diskoebi?

\\ \\ gul is SekumSvis iniciacia

\\ \\ gul is fiqsacia SuasayarSi

\\ \\ miofibril ebs Soris moqmedebis potencial is gavr cel eba

\\ \\ fibrozul i Zafebis mimagrebis xel Sewyoba

\\ \\ arteriebis datotvasTan erTad maT kedel Si gl uvkunTovani el ementebis raodenoba:

- \\ izrdeba
- \\ mcirdeba
- \\ greba
- \\ ar icvl eba

\\ \\ SearCieT gul is gamtari sistemis el ementebis ganl agebis swori Tanmimdevroba:

- \\ \\ sinoatriul i kvanZi, hisis kona, atrioventrikul uri kvanZi, hisis konis totebi
- \\ \\ sinoatriul i kvanZi, hisis kona, hisis konis totebi, atrioventrikul uri kvanZi
- \\ \\ atrioventrikul uri kvanZi, sinoatriul i kvanZi, hisis kona, hisis konis totebi
- \\ \\ sinoatriul i kvanZi, atrioventrikul uri kvanZi, hisis kona, hisis konis totebi

\\ \\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel Si gvxddeba gareTa el astikuri membrana?

- \\ \\ mcire zomis arteriebSi
- \\ \\ didi zomis venebSi
- \\ \\ didi zomis arteriebSi
- \\ \\ mcire zomis venebSi

\\ \\ \\ gul is qvemoT CamoTvl il i ubnebidan sad mdebareobs peismeikeri uj redebi?

- \\ \\ sinoatriul i kvanZi
- \\ \\ atrioventrikul uri kvanZi
- \\ \\ hisis kona
- \\ \\ hisis konis totebi

\\ \\ \\ qvemoT CamoTvl il i struqtarebidan romel i ganapirobebs winagul ebis SekumSvas gul is normul i ritmis SemTxvevaSi?

- \\ \\ sinoatriul i kvanZi
- \\ \\ atrioventrikul uri kvanZi
- \\ \\ hisis kona
- \\ \\ cTomil i nervi

\\ \\ \\ qvemoT CamoTvl il i nivTierebebidan romel i gamomuSavdeba endokrinul i kardiomiocitebis mier?

- \\ \\ natriuretul i faqtori
- \\ \\ zrdis faqtorebi
- \\ \\ hemopoetinebi
- \\ \\ adrenal ini

\\ \\ \\ qvemoT CamoTvl il Tagan romel i asaxavs sworad arteriebis tipebs?

- \\ \\ el astikuri, kunTovan-el astikuri, kunTovani
- \\ \\ kunTovani, ukunTo
- \\ \\ somaturi, viscerul i, sinusoiduri
- \\ \\ somaturi, kunTovani, viscerul i

\\ \\ \\ qvemoT CamoTvl il Tagan romel i asaxavs sworad venebis tipebs?

- \\ \\ el astikuri, kunTovani
- \\ \\ kunTovani, somaturi
- \\ \\ kunTovani, ukunTo
- \\ \\ el astikuri, Sereul i

\\ \\ qvemoT CamoTvl il Tagan romel i asaxavs sworad kapil aris tipebs?
\\ somaturi, viscerul i, sinusoiduri
\\ diafragmiani da udiafragmo
\\ kunTovani, SemaerTqsovil ovani da ukunTo
\\ el astikuri, Sereul i da kunTovani

\\ \\ ramdeni garsisgan Sedgeba sisxl ZarRvis kedel i?
\\ 3
\\ 4
\\ 2
\\ 5

\\ \\ SearCieT SigniTa garsis Sreebis swori Tanmimdevroba kunTovani tipis arteriaSi:

\\ \\ endoTel iumi, SigniTa el astikuri membrana, subendoTel uri Sre
\\ \\ endoTel iumi, kunTovani Sre, subendoTel uri Sre
\\ \\ endoTel iumi, subendoTel iumi, SigniTa el astikuri membrana
\\ \\ endoTel iumi, subendoTel iumi, gareTa SemaerTebel qsovil ovani Sre

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel Si gvxxvdeba SigniTa el astikuri membrana?

\\ \\ kunTovani tipis vena
\\ \\ kunTovani tipis arteria
\\ \\ arteriol a
\\ \\ venul a

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel Si gvxxvdeba gareTa el astikuri membrana?

\\ \\ didi zomis kunTovani vena
\\ \\ didi zomis kunTovani tipis arteria
\\ \\ ukunTo vena
\\ \\ arteriol a

\\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis sisxl ZarRvebis SigniTa safarvel s?

\\ \\ gl uvkunTovani
\\ \\ fibrobl astebi
\\ \\ endoTel uri
\\ \\ mezoTel uri

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis sisxl ZarRvebis adventiciur garss?

\\ \\ SemaerTebel i
\\ \\ cximovani
\\ \\ retikul uri
\\ \\ kunTovani

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis aortis Sua garss?

\\ \\ gl uvi kunTovani
\\ \\ faSari SemaerTebel i
\\ \\ el astikuri SemaerTebel i
\\ \\ mkvriivi formiani SemaerTebel i

\\ \\ qvemoT CamoTvl il i arteriebidan romel i miekuTvneba el astikuri tipis arterias?

- \\ Tirkml is
- \\ aorta
- \\ kuWis
- \\ RviZl is

\\ \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis gul _sisxl ZarRvTa sistemis SigniTa garsis endoTel ur Sres?

- \\ erTSriani kuburi
- \\ erTSriani brtyel i
- \\ erTSriani mraVal rigiani
- \\ erTSriani cil indrul i

\\ \\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i Seicavs yvel aze didi raodenobiT el astins Sua garsSi?

- \\ aorta
- \\ arteriol a
- \\ sisxl is kapil ari
- \\ Rru venebi

\\ \\ \\ qvemoT CamoTvl il i struqturEbidan romel i ganapirobebs winagul ebis SekumSvas gul is normul i ritmis SemTxvevaSi?

- \\ sinoatriul i kvanZi
- \\ atrioventrikul uri kvanZi
- \\ hisis kona
- \\ cTomil i nervi

\\ \\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i ar ekuTvnis makrocirkul aciur nawil s?

- \\ arteriebi
- \\ venebi
- \\ didi zomis arteriol ebi
- \\ kapil arebi

\\ \\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i ekuTvnis mikrociirkul aciur nawil s?

- \\ arteria
- \\ vena
- \\ postkapil arul i venul a
- \\ didi zomis arteriol a

\\ \\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i ar ekuTvnis mikrociirkul aciur nawil s?

- \\ metarteriol a
- \\ kapil ari
- \\ postkapil arul i venul a
- \\ didi zomis arteriol a

\\ \\ \\ gul is qvemoT CamoTvl il i garsebidan romel i iqmneba kunTovani qsovil iT?

- \\ endokardiumi
- \\ miokardiumi
- \\ perikardiumi
- \\ epikardiumi

\\ \\ \\ gamtari sistemis qvemoT CamoTvl il i ubnebidan romel Si xdeba gul is riTmis warmoqmna?

- \\ sinoatriul i kvanZi

- \\ atrio-ventrikul uri kvanzi
- \\ hisis kona
- \\ purkinies boWkoebi

- \\ \\ qvemoT CamoTvl il i l eikocitebidan romel i Seicavs heparins da histamins?
- \\ neitrofil ebi
- \\ bazofil ebi
- \\ eozinofil ebi
- \\ l imfocitebi

- \\ \\ CamoTvl il Tagan, ramden dRes Seadgens cirkul aciaSi myofi eriTrocitebis sicocxl is saSual o xangrZl ioba?
- \\ 80
- \\ 120
- \\ 100
- \\ 30

- \\ \\ qvemoT CamoTvl il i structurebidan romel s Seicavs adamianis sisxl is firfitebis central uri nawil i?
- \\ birTvs
- \\ mikromil akebs
- \\ granul omers
- \\ hial omers

- \\ \\ qvemoT CamoTvl il i uj redebidan roml is raodenoba iqneba momatebul i parazitul i infeqciis mqone avadmyofis sisxl is nacxSi?
- \\ eozinofil ebi
- \\ bazofil ebi
- \\ neitrofil ebi
- \\ monocitebis

- \\ \\ qvemoT CamoTvl il i uj redebidan romel s aqvs recirkul aciis unari (sisxl i → SemaerTebel i qsovil i → sisxl i?)
- \\ bazofil i
- \\ eozinofil i
- \\ eriTrociti
- \\ l imfociti

- \\ \\ qvemoT CamoTvl il i uj redebidan romel i ganapirobebs gadanergvis SemTxvevaSi transpl antatis mocil ebas?
- \\ bazofil i
- \\ eozinofil i
- \\ l imfociti
- \\ neitrofil i

- \\ \\ qvemoT CamoTvl il i uj redebidan romel i Warbobs sisxl Si mocirkul ire l eikocitebs Soris?
- \\ bazofil i
- \\ eozinofil i
- \\ l imfociti
- \\ neitrofil i

- \\ \\ qvemoT CamoTvl il i uj redebidan romel i iwyebbs fagocitur aqtivobas sisxl idan SemaerTebel qsovil Si moxvedris Semdeg?
- \\ monociti
- \\ eozinofil i

\\ I imfociti
\\ neitrofil i

\\ \\ qvemoT CamoTvl il i nivTierebebidan upiratesad romel i monawil eobs
sisxl is osmosuri wnevis SenarCunebaSi?

\\ al bumini
\\ fibrinogeni
\\ gl ukoza
\\ imunogl obul inebi

\\ \\ CamoTvl il Tagan, romel i uj redebis xarj ze xdeba baqteriul i infeqciebis
dros sisxl Si I eikocitebis raodenobis mateba?

\\ bazofil ebi
\\ I imfocitebi
\\ eozinofil ebi
\\ neitrofil ebi

\\ \\ qvemoT CamoTvl il i gamonaTqvamebidan romel i axasiaTebis neitrofil ur
I eikocits?

\\ warmoiqmneba el enTaSi
\\ gamoyofs histamins
\\ asinTezebs antisxeul ebs
\\ aqvs fagocitozis unari

\\ \\ qvemoT CamoTvl il i uj redebidan romel s aqvs histaminazuri aqtivoba?

\\ bazofil ebi
\\ monocitebi
\\ eozinofil ebi
\\ I imfocitebi

\\ \\ I imfocitebis qvemoT CamoTvl il i saxeebidan romel i monawil eobs
humorul imunitetSi?

\\ T-hel peri
\\ T-citotoqsikuri
\\ B uj redi
\\ NK uj redi

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i axasiaTebis
monocits?

\\ mraval wil iani hiperqromul i birTvi
\\ azurofil uri granul ebi
\\ metaqromaziul i granul ebi
\\ sada zedapiri

\\ \\ eriTrocitits qvemoT CamoTvl il i formebidan romel ia yvel aze didi
raodenobiT periferiul sisxl Si?

\\ eqinocitebi
\\ sferocitebi
\\ diskocitebi
\\ stomatocitebi

\\ \\ qvemoT CamoTvl il i I eikocitebidan romel ia yvel aze mcire raodenobiT
cirkul aciaSi myof sisxl Si?

\\ I imfocitebi
\\ neitrofil ebi
\\ eozinofil ebi

\\ bazofil ebi

\\\ qvemoT CamoTvl il i I eikocitebidan roml is birTvi xasiaTdeba yvel aze meti wil akebis arsebobiT?

\\ neitrofil i

\\\ bazofil i

\\\ eozinofil i

\\\ monociti

\\\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis bazofil s?

\\\ acidofil uri citopl azma

\\\ 2-5 wil isagan Semdgari birTvi

\\ metaqromaziul i granul ebi

\\\ mravl obiTi citopodia

\\\ I eikocitebis saerTo raodenobis ramden procents Seadgens bazofil i periferiul sisxl Si?

\\\ 45-75%

\\\ 6-8%

\\ 0,5-1%

\\\ 22-28%

\\\ I eikocitebis saerTo raodenobis ramden procents Seadgens NEneitrofil ebi periferiul sisxl Si?

\\ 45-75%

\\\ 6-8%

\\\ 0,5-1%

\\\ 22-28%

\\\ qvemoT CamoTvl il i neitrofil uri I eikocitebis formebidan romel i Cndeba sisxl Si didi raodenobiT baqteriul i infeqciis dros, rasac 'marcxniv gadaxra- ewodeba?

\\ CxirbirTvi ani

\\\ segmentbirTvi ani

\\\ metamiel ociti

\\\ promiel ociti

\\\ qvemoT CamoTvl il i I eikocitebidan romel ia yvel aze didi raodenobiT cirkul aciaSi myof sisxl Si?

\\\ monocitebi

\\\ I imfocitebi

\\ neitrofil ebi

\\\ eozinofil ebi

\\\ maRal mTian raionebsi adami nebs eritrocitebis Semcvel oba Cveul ebrivze bevrad ufro maRal i aqvT. qvemoT CamoTvl il i fizikuri faqtorebidan romel i ganapirobebs aRniSnul s?

\\\ dabal i temperatura

\\ Jangbadis dabal i wneva

\\\ Jangbadis maRal i wneva

\\\ maRal i temperatura

\\\ qvemoT CamoTvl il i uj redebidan romel ia miel oiduri rigis umarcvl o I eikociti?

\\ monociti

\\\ I imfociti

- \\ bazofil i
- \\ neitrofil i

\\ \\ ra ewodeba eriTroci tebis raodenobis matebas?

- \\ eriTroci tozi
- \\ anizoci tozi
- \\ poikil ocitozi
- \\ eriTrope nia

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs hemogl obini?

- \\ icavs eriTroci tebis dnm-s
- \\ warmoqmnis antisxeul ebs
- \\ monawil eobs Jangbadis gadatanaSi
- \\ monawil eobs Sededebis procesSi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis eriTroci ts?

- \\ sisxl Si mxol od srul i momwifebis Semdeg gadadis
- \\ eriTropeoetinis gavl eniT sisxl Si cirkul aciis procesSi mitozurad iyofa
- \\ cirkul aciidan gamodis makrofagebis meSveobiT daaxl oebiT 120 dRis Semdeg
- \\ Seicavs mitoqondriebs da masSi JangviTi fosforil ireba mimdinareobs

\\ \\ qvemoT CamoTvl il i sisxl is formiani el ementebidan romel i warmoadgens megakariocitebis fragmentebs?

- \\ neitrofil ebi
- \\ Trombocitebi
- \\ eriTroci tebi
- \\ pl azmis cil ebi

\\ \\ qvemoT CamoTvl il i pl azmis cil ebidan romel i gv xvdeba yvel aze didi raodenobiT sisxl Si?

- \\ al buminebi
- \\ al fa gl obul ini
- \\ gamagl obul ini
- \\ Sededebis cil ebi

\\ \\ ramdeni wil isgan Sedgeba neitrofil uri l eikocitebis birTvi?

- \\ 1-2
- \\ 2-5
- \\ 5-7
- \\ 4-5

\\ \\ qvemoT CamoTvl il i l eikocitebidan romel i ekuTvnis umarcvl o l eikocits, romel sac fagocitozis unari gaaCnia?

- \\ neitrofil ebi
- \\ monocitebi
- \\ l imfocitebi
- \\ eozinofil ebi

\\ \\ CamoTvl il Tagan, uj redis romel i unaris amsaxvel ia neitrofil ebis birTvSi 5-ze meti wil akis arseboba?

- \\ maRal i metabol uri aqtivoba
- \\ gayofis maRal i unari
- \\ dabereba
- \\ diferenciaciis xarisxi

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs eriTroctitis maRal i deformabel obisa da rezistentobis unars?

\\ \\ citopl azmaSi hemogl obinis 33%-iani xsnaris arseboba

\\ \\ hemogl obinis mier Jangbadis mierTebisa da gacemis unari

\\ \\ citoConCxis Semadgenl obaSi speqtrinis mol ekul ebis arseboba

\\ \\ citoConCxis organizaciis Taviseburebani

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo retikul ocitisa da eriTroctitisaTvis?

\\ \\ mitoqondriebs arseboba

\\ \\ ribosomebs arseboba

\\ \\ birTvis araseboba

\\ \\ ormxrivCazneqil i diskos forma

\\ \\ \\ cirkul aciaSi myofi I eikocitebs saerTo raodenobis ramden procents Seadgens Nneitrofil ebi?

\\ \\ 10%

\\ \\ 30%

\\ \\ 2-4%

\\ \\ 7-8%

\\ \\ \\ qvemoT CamoTvl il i I eikocitebidan romel s uwodeben mikrofagebs?

\\ \\ neitrofil i

\\ \\ monociti

\\ \\ eozinofil i

\\ \\ bazofil i

\\ \\ \\ sisxl is qvemoT CamoTvl il i uj redebidan romel i ar ekuTvnis I eikocitebs?

\\ \\ sisxl is firfitebi

\\ \\ neitrofil ebi

\\ \\ monocitebi

\\ \\ I imfocitebi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i gamoiyeneba sisxl is uj redSorisi nivTierebis aRsani Snavad?

\\ \\ matriqsi

\\ \\ pl azma

\\ \\ I imfa

\\ \\ ZiriTadi nivTiereba

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs eriTroctiti?

\\ \\ antisxeul ebis sinTezi

\\ \\ Jangbadis transporti

\\ \\ fagocitozi

\\ \\ pl azmis cil ebis sinTezi

\\ \\ \\ qvemoT CamoTvl il Tagan rogori forma aqvs momwifebul eriTroctits?

\\ \\ brtyel i

\\ \\ ormxriv Cazneqil i

\\ \\ sferosebri

\\ \\ mraVal kuTxa

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar ekuTvnis marcvl ovan I eikocitebs?

\\ \\ bazofil i

- \\ eozinofil i
- \\ monociti
- \\ neitrofil i

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar ekuTvnis marcvl ovan
I eikocitebs?

- \\ neitrofil i
- \\ bazofil i
- \\ eozinofil i
- \\ I imfociti

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs bazofil uri
I eikociti?

- \\ fagocitozi
- \\ al ergiul reaqciebSi monawil eoba
- \\ antisxeul ebis sinTezi
- \\ pl azmis cil ebis sinTezi

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs neitrofil uri
I eikociti?

- \\ antisxeul ebis sinTezi
- \\ Jangbadis transporti
- \\ parazitul i Wiebisgan dacva
- \\ anTebis procesis regul acia

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs eozinofil uri
I eikociti?

- \\ pl azmis cil ebis sinTezi
- \\ al ergiul reaqciebSi monawil eoba
- \\ antisxeul ebis warmoqmna
- \\ fagocitozi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ekuTvnis umarcvl o I eikocitebs?

- \\ monociti
- \\ neitrofil i
- \\ Trombociti
- \\ bazofil i

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ekuTvnis umarcvl o I eikocitebs?

- \\ eozinofil i
- \\ bazofil i
- \\ makrofagi
- \\ I imfociti

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs monociti?

- \\ warmoqmni makrofags
- \\ asinTezebs antisxeul ebs
- \\ monawil eobs sisxl is SededebaSi
- \\ asinTezebs pl azmis cil ebs

\\ \\ qvemoT CamoTvl il i funciebidan romel s asrul ebs I imfociti?

- \\ imunuri pasuxis Camoyal ibeba
- \\ fagocitozi
- \\ pl azmis cil ebis sinTezi
- \\ sisxl is Sededebis regul acia

\\ \\ I imfocitebis qvemoT CamoTvl il i saxeebidan romel i monawil eobs humorul imunitetSi?

\\ B I imfociti

\\ T hel peri

\\ T citotoqsiuri

\\ NK uj redi

\\ \\ I imfocitebis qvemoT CamoTvl il i saxeebidan romel i monawil eobs uj redul imunitetSi?

\\ B I imfociti

\\ T hel peri

\\ T citotoqsiuri

\\ NK uj redi

\\ \\ qvemoT CamoTvl il Tagan, romel i saxis qsovil i warmoadgens el entis pul pis safuZvel s?

\\ retikul uri

\\ epiTel ur-retikul uri

\\ faSari SemaerTebel i

\\ mkrivi SemaerTebel i

\\ \\ qvemoT CamoTvl il Tagan, el entis romel ubanSi mdebareoben T I imfocitebi?

\\ I imfuri fol ikul ebi

\\ periarteriul i Sal iTebi

\\ marginal uri zona

\\ wiTel i pul pa

\\ \\ qvemoT CamoTvl il Tagan, I imfuri kvanZis romel ubanSi ar mdebareobs B I imfocitebi?

\\ I imfuri fol ikul ebi reaqtiul i centrebi

\\ parakortikul i zona

\\ I imfuri fol ikul ebi periferiul i zona

\\ tvinovani bagirakebi

\\ \\ qvemoT CamoTvl il Tagan, Timusis romel uj reds uwodeben 'ZiZa- uj redebs?

\\ makroFagebs

\\ epiTel ur_retikul ur

\\ fibrobl astebs

\\ dendritul

\\ \\ qvemoT CamoTvl il Tagan, romel i uj redi uzrunvel yofs uj redul imunitetSi antigenuri uj redis ganadgurebas?

\\ T citotoqsiuri

\\ poxieri

\\ pl azmuri

\\ fibrobl asti

\\ \\ qvemoT CamoTvl il i uj redebidan roml is irgvl iv yal ibdeba eriTrobl asturi kunZul i Zvl is wiTel tvinSi?

\\ retikul ociti

\\ adipociti

\\ makrofagi

\\ Rerovani

\\ \\ \\ qvemoT CamoTvl il i organoebidan roml is l imfuri fol ikul i Seicavs arterias?

\\ \\ l imfuri kvanZi

\\ \\ Timusi

\\ \\ Wiayel a danamati

\\ \\ el enTa

\\ \\ \\ qvemoT CamoTvl il Tagan, l imfuri kvanZis romel ubanSi mdebareobs T l imfocitebi?

\\ \\ l imfuri fol ikul ebs reaqtul i centrebi

\\ \\ l imfuri fol ikul ebs periferiul i zona

\\ \\ parakortikul i zona

\\ \\ tvinovani bagirakebi

\\ \\ \\ qvemoT CamoTvl il Tagan, romel i uj redi qmnis TimusSi l imfocitebisaTvis samganzomil ebian bades?

\\ \\ retikul uri

\\ \\ epiTel uri

\\ \\ fibroblasturi

\\ \\ cximovani

\\ \\ \\ qvemoT CamoTvl il Tagan rogori ganawil ebaa damaxasiaTebel i Timusis wil akSi l imfocitebisaTvis?

\\ \\ Tanabari

\\ \\ Warbobs qerqovan nivTierebaSi

\\ \\ Warbobs tvinovan nivTierebaSi

\\ \\ Warbobs hasal is sxeul akebSi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar miekuTvneba antigenwarmdgen uj redebs?

\\ \\ l angerhansis

\\ \\ dendritul i

\\ \\ purkinies

\\ \\ Timusis epiTel ur-retikul uri

\\ \\ \\ qvemoT CamoTvl il Tagan, eriTroidul i rigis romel uj redebSi Cndeba pirvel ad hemogl obinis mol ekul a?

\\ \\ proeriTroblasti

\\ \\ bazofil uri eriTroblasti

\\ \\ pol iqromatofil uri eriTroblasti

\\ \\ normobl asti

\\ \\ \\ qvemoT CamoTvl il Tagan, romel i niSnis arseboba ganasxvavebs el enTis l imfur fol ikul ebs sxva l imfoiduri organoebis l imfuri fol ikul ebsagan?

\\ \\ reaqtul i centris

\\ \\ periferiul zonaSi B l imfocitebis

\\ \\ central uri arteriis

\\ \\ retikul uri boWkoebis

\\ \\ \\ qvemoT CamoTvl il i ubnebidan romel i ekuTvnis Timus-damokidebul zonebs?

\\ \\ l imfuri kvanZis tvinovani bagirakebi

\\ \\ hasal is sxeul akebi

\\ \\ peieris fol aqebis gamravl ebs centrebi

\\ \\ el enTis periarteriul i mufta

- \\\ qvemoT CamoTvl il i organoebidan romel i ekuTvnis imunopoezis central ur organos?
- \\ Zvl is wiTel i tvini
- \\\ el enTa
- \\\ I imfuri kvanZi
- \\\ nuSebi

- \\\ qvemoT CamoTvl il i uj redebidan roml is markeria CD4+?
- \\\ B I imfocitebis
- \\\ T citotoqsiuri I imfocitis
- \\\ NKuj redis
- \\ T hel peris

- \\\ qvemoT CamoTvl il i uj redebidan romel s ara aqvs antigenur epitopTan damakavSirebel i receptorebi?
- \\\ T hel perebi
- \\ bunebrivi mkvl el ebi (NK)
- \\\ T citotoqsikuri uj redi
- \\\ B I imfociti

- \\\ qvemoT CamoTvl il i procesebidan roml is meSveobiT aaqtivebs kompl ementis cil ebi fagocitozs?
- \\\ anergia
- \\ ofsonizacia
- \\\ citol izi
- \\\ proteol izi

- \\\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis megakariobl asts?
- \\ giganturi zoma
- \\\ hiperqromul i birTvi
- \\\ pol ipl oiduri erTi birTvi
- \\\ eozinofil uri citopl azma

- \\\ qvemoT CamoTvl il Tagan, nei trofil ebis romel i granul a Cndeba promiel ocitis stadiaze?
- \\ azurofil uri
- \\\ spesifikuri
- \\\ fosfosomebi
- \\\ proteasomebi

- \\\ SemaerTebel i qsovil is qvemoTCamoTvl il i uj redebidan romel ia bazofil is msgavsi?
- \\\ makrofagi
- \\\ pl azmuri
- \\ poxieri
- \\\ fibrobl asti

- \\\ qvemoT CamoTvl il i niSnebidan roml is arsebobaa saerTo retikul ocitisa da eriTrocitisaTvis?
- \\\ mitoqondriebi
- \\\ ribosomebi
- \\ hemogl obini
- \\\ citopl azmuri granul ebi

- \\\ qvemoT CamoTvl il i I eikocitebidan romel s aqvs recirkul aciis unari?

- \\ neitrofil i
- \\ monociti
- \\ eozinofil i
- \\ limfociti

\\ \\ qvemoT CamoTvl il Tagan, romel i nivTiereba qmnis eozinofil ebis specifikuri granul ebis kristal oidis gul s?

- \\ histamini
- \\ Jel atinaza
- \\ l izocimi
- \\ mTavari bazisuri cil a

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel i ganapi robebs Rerovani uj redidan proerit Trobl astis Camoyal ibebas?

- \\ feritini
- \\ katefsini C
- \\ eri Tropoetini
- \\ somatotropul i hormoni

\\ \\ qvemoT CamoTvl il Tagan, Canasaxis romel ubanSi iwyeba sisxl is uj redebis warmoqmna pirvel ad embrionul i ganviTarebis procesSi?

- \\ amnioni
- \\ yviTris parki
- A. \\ Zvl is tvini
- \\ Timusi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis bunebriv mkvl el ebs?

- \\ cirkul aciaSi myofi limfocitebis daaxl oebiT 65%-s Seadgens
- \\ antigengamomcnobi receptorebi gaaCnia
- \\ umetes SemTxvevaSi didi marcvl ovani limfocitebia
- \\ gamomuSavebs citokinebs

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis Zvl is wiTel i tvinis safuZvel s?

- \\ faSari uformo
- \\ retikul uri
- \\ cximovani
- \\ el astikuri

\\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan romel i ekuTvnis central ur organoebis?

- \\ Zvl is wiTel i tvini da el enTa
- \\ el enTa da limfuri kvanZi
- \\ Zvl is wiTel i tvini da Timusi
- \\ limfuri kvanZi da Timusi

\\ \\ qvemoT CamoTvl il i organoebidan romel i ekuTvnis periferiul sisxl mbad organoebis?

- \\ Zvl is wiTel i tvini da el enTa
- \\ el enTa da limfuri kvanZi
- \\ Zvl is wiTel i tvini da Timusi
- \\ limfuri kvanZi da Timusi

\\ \\ qvemoT CamoTvl il i kapil arebidan romel ia damaxasiaTebel i Zvl is wiTel i tvinisatvis?

\\ somaturi
\\ viscerul i diafragmiT
\\ viscerul i diafragmis gareSe
\\ sinusoiduri

\\ \\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan romel s aqvs wil akovani Seneba?

\\ Zvl is wiTel i tvini
\\ Timusi
\\ el enTa
\\ I imfuri kvanZi

\\ \\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan roml is wil aki Sedgeba qerqovani da tvinovani nivTierebisgan?

\\ Zvl is wiTel i tvini
\\ Timusi
\\ el enTa
\\ I imfuri kvanZi

\\ \\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan roml is safuZvel s ar qmnis retikul uri qsovil i?

\\ Zvl is wiTel i tvini
\\ Timusi
\\ el enTa
\\ I imfuri kvanZi

\\ \\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan romel s aqvs naxebrad Txieri konsistencia?

\\ Zvl is wiTel i tvini
\\ Timusi
\\ el enTa
\\ I imfuri kvanZi

\\ \\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan romel Si mimdinareobs T I imfocitebis warmoqmna?

\\ Zvl is wiTel i tvini
\\ Timusi
\\ el enTa
\\ I imfuri kvanZi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba I imfur kvanZSi arsebul sivrceebis, romel Sic I imfa miadini neba?

\\ ZarRvebi
\\ kapil arebi
\\ sinusebi
\\ sadinrebi

\\ \\ \\ qvemoT CamoTvl il i sinusebidan romel i ar gvxdvdeba I imfur kvanZSi?

\\ subkafsul uri
\\ Suamdebare
\\ karis
\\ venuri

\\ \\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan roml is parenqimas hqvia pul pa?

\\ Zvl is wiTel i tvini

- \\ Timusi
- \\ el enTa
- \\ I imfuri kvanZi

- \\ \\ I imfuri kvanZis qvemoT CamoTvl il i ubnebidan romel Si xdeba T I imfocitebis gamravl eba?
- \\ I imfuri fol ikul ebi
- \\ parakortikul i zona
- \\ tvinovani bagirakebi
- \\ tvinovani sinusebi

- \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis I imfuri kvanZis I imfur fol ikul s?
- \\ qerqovani nivTierebis gareTa SreSi mdebareobs
- \\ reaqtul i centri gaaCnia
- \\ periferiul i zona central ur arterias Seicavs
- \\ Seicavs reaqtul zonas sadac I imfobl astebis gamravl eba xdeba

- \\ \\ qvemoT CamoTvl il i sisxl mbadi organoebidan roml ebs axasiaTebis I imfuri fol ikul ebis arseboba?
- \\ el enTa da Timusi
- \\ Zvl is wiTel i tvini da Timusi
- \\ el enTa da I imfuri kvanZi
- \\ I imfuri kvanZi da Zvl is wiTel i tvini

- \\ \\ el enTis qvemoT CamoTvl il i ubnebidan romel i Seesabameba T zonas?
- \\ I imfuri fol ikul i
- \\ periarteriul i mufta
- \\ marginal uri zona
- \\ venuri sinusebi

- \\ \\ el enTis qvemoT CamoTvl il i ubnebidan romel i Seesabameba B zonas?
- \\ I imfuri fol ikul i
- \\ periarteriul i mufta
- \\ marginal uri zona
- \\ venuri sinusebi

- \\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs el enTa?
- \\ eriTrocitebis daSl a
- \\ I imfocitebis gamravl eba
- \\ I imfis gawmenda
- \\ damcvel obiTi

- \\ \\ qvemoT CamoTvl il Tagan, hipofizis romel i nawil i ekuTvnis neiropofizs?
- \\ wina
- \\ Suamdebare
- \\ infundibul umi
- \\ tuberal uri

- \\ \\ qvemoT CamoTvl il i struqturul i erTeul ebidan romel s ekuTvnis heringis sxoul akebi?
- \\ special uri gl iuri uj redebi
- \\ neirosekretis grovebi
- \\ sinafsuri buStukebi
- \\ special uri jirkvl ovani uj redebi

\\ \\ \\ qvemoT CamoTvl il i embrionul i nergebidan romel i aZl evs dasabams hipofizis fexs?
\\ \\ \\ piris Rrus eqtoderma
\\ \\ \\ ratkes j ibis ukana kedel i
\\ \\ \\ neiromezenqima
\\ \\ \\ diencefal onis fuZe

\\ \\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel s moaqvs adenohipofizSi hipotal amuri hormonebi?
\\ \\ \\ SigniTa saZil e arteria
\\ \\ \\ hipofizis portul i venebi
\\ \\ \\ hipofizis venebi
\\ \\ \\ qveda hipofizuri arteria

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs adenohipofizis fol ikul uri uj redebi?
\\ \\ \\ sekrecia
\\ \\ \\ sayrdeni
\\ \\ \\ regeneracia
\\ \\ \\ trofika

\\ \\ \\ qvemoT CamoTvl il i struqturul -funqciuri Taviseburebebidan romel i ar axasiaTebse epi fizs?
\\ \\ \\ dafarul ia Tavisevnis rbi i garsiT
\\ \\ \\ iqmneba pineal ocitebiTA da astrocitebiT
\\ \\ \\ gamomuSavebs mel atonins
\\ \\ \\ warmoiqmneba piris Rrus eqtodermidan

\\ \\ \\ Tireocitis sekreciul i cikl is qvemoT CamoTvl il i fazebidan romel i mimdinareobs uj redise gareT?
\\ \\ \\ Tireogl obul inis sinTezi
\\ \\ \\ iodis aTviseba
\\ \\ \\ iodis gaaqtiveba
\\ \\ \\ Tirozinul naSTebTan iodis dakavSireba

\\ \\ \\ qvemoT CamoTvl il i cvl il ebebidan romel s ganicdis asakis matebasTan erTad farisebraxl ojirkvl is mTavari uj redebi?
\\ \\ \\ acidofil ur uj redbad gardaiqmneba
\\ \\ \\ raodenobrivad mniSvnel ovnad matul obs
\\ \\ \\ cximovani uj redebiT icvl eba
\\ \\ \\ zomaSi mniSvnel ovnad matul obs

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel Si gamomuSavdeba Tireotropul i hormoni?
\\ \\ \\ fol ikul uri
\\ \\ \\ bazofil uri adenociti
\\ \\ \\ acidofil uri adenociti
\\ \\ \\ parafol ikul uri

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba gorgl ovan zonaSi?
\\ \\ \\ adrenal ini
\\ \\ \\ mineral okortikoidi
\\ \\ \\ androgenebi
\\ \\ \\ noradrenal ini

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ekuTvnis epifizs?

\\ \\ pituicitebi

\\ \\ adenocitebi

\\ \\ pineal ocitebi

\\ \\ folikul ocitebi

\\ \\ \\ qvemoT CamoTvl il Tagan folikul is romel ubanSi mimdinareobs

Tireogl obulinis iodis dakavSireba?

\\ \\ endoplazmur badeSi

\\ \\ koloidSi

\\ \\ golj is aparatSi

\\ \\ lizosomebSi

\\ \\ qvemoT CamoTvl il i uj redebidan romel saqvs paraThormonis hormonis receptorebi?

\\ \\ osteoblastebs

\\ \\ osteoklastebs

\\ \\ osteocytebs

\\ \\ osteoprogenitorul

\\ \\ \\ qvemoT CamoTvl il i organoebidan romel ia damokidebul i hipotalamohipofizur sistemaze?

\\ \\ pankreasi

\\ \\ farisebri jirkvali

\\ \\ Tirkmel zedajirkvlis tvinovani nivTiereba

\\ \\ farisebraxlo jirkvali

\\ \\ \\ Tavis tvinis qvemoT CamoTvl il i nawilebidan romel i aZlevs dasabams neirohipofizs

\\ \\ diencefalonis fuze

\\ \\ metencefaloni

\\ \\ mielencefalonis saxuravis firfita

\\ \\ telencefalonis saxuravis firfita

\\ \\ \\ qvemoT CamoTvl il i embrionul i nergebidan romel i aZlevs dasabams Tirkmel zedajirkvlis tvinovani nivTierebas?

\\ \\ nervuli qedi

\\ \\ celomis epiteliumi

\\ \\ Suamdebare mezoderma

\\ \\ pirveladinawlavis endoderma

\\ \\ \\ qvemoT CamoTvl il i nisnebidan romel i axasiaTebsqromofilur adenocitebs?

\\ \\ sekreciuli aqtivoba

\\ \\ mravlobiTimorCebi

\\ \\ proliferaciuli aqtivoba

\\ \\ dabaliseRebvis unarianoba

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel Si ar monawileobs mineralokortikoidebi?

\\ \\ el eqtrolitebis balansis regulacia

\\ \\ glukoneogenezi

\\ \\ natriumis reabsorbcia Tirkmlis milakebSi

\\ \\ natriumis absorbcia kuWSi

- \\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel i ekuTvnis endokrinul i sistemis central ur nawil s?
- \\ hipofizi
- \\ farisebri
- \\ Tirkmel zeda
- \\ farisebraxl o

- \\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel i ekuTvnis endokrinul i sistemis central ur nawil s?
- \\ farisebri
- \\ farisebraxl o
- \\ pankreas is l angerhans is kunZul ebi
- \\ epi fizi

- \\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel i ar ekuTvnis endikrinul i sistemis central ur nawil s?
- \\ farisebri
- \\ epi fizi
- \\ hipofizi
- \\ hipoTal amusi

- \\ \\ \\ qvemoT CamoTvl il i nawil ebidan romel i ar Sedis adenohipofizis Semadgenl obaSi?
- \\ wina wil i
- \\ Suamdebare wil i
- \\ tuberal uri wil i
- \\ hipofizis fexi

- \\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i ar gamomuSavdeba hipofizSi?
- \\ prol aqtini
- \\ Tireotropul i hormoni
- \\ vazopresini
- \\ mal uTeinizebel i hormoni

- \\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i ar gamomuSavdeba hipofizSi?
- \\ adrenokortikotropul i hormoni
- \\ insul ini
- \\ fol ikul mastimul irebel i hormoni
- \\ prol aqtini

- \\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba adenohipofizSi?
- \\ paraThormoni
- \\ vazopresini
- \\ oqsitocini
- \\ prol aqtini

- \\ \\ \\ qvemoT CamoTvl il i endokrinul i organoebidan roml is funqcias aregul irebs adenohipofizi?
- \\ farisebraxl o jirkval i
- \\ farisebri jirkval i
- \\ Tirkmel zeda jirkvl is tvinovani nivTiereba
- \\ pankreas i

- \\ \\ \\ qvemoT CamoTvl il i endokrinul i organoebidan roml is funqcias ar aregul irebs adenohipofizi?
- \\ farisebri jirkval i

- \\ farisebraxl o jirkval i
- \\ \\ gonadebi
- \\ \\ Tirkmel zeda jirkvl is qerqovani nivTiereba

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gv xvdeba adenohipofizSi?
- \\ \\ bazofil uri adenocitebi
- \\ \\ acidofil uri adenocitebi
- \\ pituitocitebi
- \\ \\ qromofoburi adenocitebi

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i gv xvdeba nei rohipofizSi?
- \\ \\ qromofil uri adenocitebi
- \\ \\ qromofoburi adenocitebi
- \\ pituitocitebi
- \\ \\ nei roendokrinul i uj redebi

- \\ \\ \\ qvemoT CamoTvl il i struqturedan roml is arseboba ar aris damaxasiaTebel i nei rohipofizisaTvis?
- \\ \\ umiel ino nervul i boWkoebi
- \\ \\ pituitocitebi
- \\ \\ heringis sxoul akebi
- \\ fol ikul ebi

- \\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba farisebr jirkval Si?
- \\ \\ prol aqtini
- \\ \\ paraThormoni
- \\ kal citonini
- \\ \\ gl ukagoni

- \\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba farisebr jirkval Si?
- \\ \\ somatotropul i
- \\ Tiroqsini
- \\ \\ prol aqtini
- \\ \\ adrenal ini

- \\ \\ \\ qvemoT CamoTvl il i hormonebidan roml ebi xasiaTdeba antagonisturi moqmedebiT?
- \\ \\ kal citonini da Tiroqsini
- \\ \\ kal citonini da paraThormoni
- \\ \\ adrenal ini da prol aqtini
- \\ \\ al dosteroni da prol aqtini

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs kal citonins farisebr jirkval Si?
- \\ \\ fol ikul uri
- \\ \\ parafol ikul uri
- \\ \\ fibrobl asti
- \\ \\ mTavari

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs Tiroqsins?
- \\ \\ fol ikul uri
- \\ \\ parafol ikul uri
- \\ \\ mTavari
- \\ \\ acidofil uri

\\\ endokrinul i uj redebis organizaciis qvemoT CamoTvl il i tipebidan romel ia damaxasiaTebI i farisebri jirkvl isTvis?

- \\ fol ikul ebi
- \\\ Wimebi
- \\\ grovebi
- \\\ trabekul ebi

\\\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba farisebraxl o jirkval Si?

- \\\ Tiroqsini
- \\\ triiodTironini
- \\ paraThormoni
- \\\ adrenal ini

\\\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs farisebraxl o jirkvl is hormons?

- \\ mTavari uj redebi
- \\\ acidofil uri uj redebi
- \\\ cximovani uj redebi
- \\\ fibrobl astebi

\\\ qvemoT CamoTvl il Tagan uj redebis rogori ganI agebaa damaxasiaTebel i paraTireoidul i jirkvl is uj redebisaTvis?

- \\ Wimebi
- \\\ fol ikul ebi
- \\\ grovebi
- \\\ badisebri

\\\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba epi fizSi?

- \\\ adrenal ini
- \\ mel atonini
- \\\ noradrenal ini
- \\\ dofamini

\\\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba Tirkmel zeda jirkvl is tvinovan nivTierebaSi?

- \\\ al dosteroni da kortizol i
- \\ adrenal ini da noradrenal ini
- \\\ Tiroqsini da kal citonini
- \\\ estrogeni da progesteroni

\\\ Tirkmel zeda jirkvl is qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba gorgl ovan zonaSi?

- \\ al dosteroni
- \\\ kortizol i
- \\\ adrenal ini
- \\\ noradrenal ini

\\\ Tirkmel zeda jirkvl is qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba bagirakovan zonaSi?

- \\\ adrenal ini
- \\\ noradrenal ini
- \\ kortizol i
- \\\ al dosteroni

\\ \\ qvemoT CamoTvl il i hormonebidan romel i ar gamomuSavdeba Tirkmel zeda jirkvl is qerqovani nivTierebis bagirakovan zonaSi?

\\ al dosteroni

\\ kortizoni

\\ kortizol i

\\ androgenebi

\\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba Tirkmel zeda jirkvl is tvinovan nivTierebaSi?

\\ al dosteroni da estrogeni

\\ adrenal ini da noradrenal ini

\\ kortizoni da kortizol i

\\ androgenebi da estrogenebi

\\ \\ piriS Rrus qvemoT CamoTvl il i organoebidan romel i Seicavs I orwqveSa Canafens?

\\ magari sasa

\\ rbiI i sasa

\\ RrZil i

\\ enis zeda zedapiri

\\ \\ kbiI is qvemoT CamoTvl il i nawil ebidan romel i faravs mas fesvis mi damoSi?

\\ minanqri

\\ duRabi

\\ pul pa

\\ dentini

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i axasiaTebS msxvil i nawl avis I orwovan garss?

\\ Zal ian Rrma kriptebi

\\ mcire raodenobiT I imfuri fol i kul ebi

\\ mcire raodenobiT fial isebri uj redebi

\\ sustad datotvil i xaoebi

\\ \\ kuWis jirkvl ebiS qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs maril mJavas?

\\ enteroendokrinul i

\\ pariesul i

\\ mTavari

\\ damatebiTi

\\ \\ qvemoT CamoTvl il i sanerwyve jirkvl ebidan romel s aqvs pankreasiS msgavsi Seneba?

\\ ybayura

\\ ybiSqveSa

\\ enisqveSa

\\ enis

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS kuWis Sesaval s?

\\ kuWsa da sayl apavs Soris gardamaval i nawil ia

\\ rTul datotvil mil akovan jirkvl ebs Seicavs

\\ sayl apavis sakuTari jirkvl ebiS msgavs jirkvl ebs Seicavs

\\ ar Seicavs kunTovan firfitas

\\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs enteroendokrinul i uj redebi, roml ebic pankreozimins (pankreas is maregul irebel faqtors) gamoimuSavebs?

- \\ kuWis fundus is j irkvl ebSi
- \\ Tormetgoj as l orwovan garsSi
- \\ ml ivi nawl avis xaoebSi
- \\ msxvil i nawl avis kriptebsi

\\ \\ fundus is qvemoT CamoTvl il i ubnebidan sad gvxxvdeba upiratesad enteroendokrinu-l i uj redebi?

- \\ yel i
- \\ sxeul i
- \\ Ziri
- \\ pil orusi

\\ \\ qvemoT CamoTvl il Tagan, romel i struqtorebi Sedis portul i triadis Semadgenl obaSi?

- \\ wil akSorisi arteria, vena, hepatociti
- \\ wil akSorisi arteria, vena, naRvl is sadinari
- \\ central uri vena, naRvl is kapil ari, hepatociti
- \\ hepatociti, sisxl is da naRvl is kapil ari

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTeb s pariesul uj redebs?

- \\ bazofil uri citopl azma
- \\ didi raodenobiT l izosomebi
- \\ uj redSiga sadinrebi
- \\ sekreciul i granul ebi

\\ \\ qvemoT CamoTvl il Tagan, RviZl is romel struqturul -funqciur erTeul s aqvs samkuTxa forma?

- \\ kl asikur wil aks
- \\ acinuss
- \\ portul wil aks
- \\ wil s

\\ \\ qvemoT CamoTvl il i organoebidan roml is l orwovani garsi ar Seicavs fial isebr uj redebs?

- \\ kuWi
- \\ Tormetgoj a nawl avi
- \\ ml ivi nawl avi
- \\ TeZos nawl avi

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTeb s RviZl is sinusoidur kapil arebs?

- \\ kargad gamoxatul bazal ur membrana
- \\ wyvetil i bazal ur membrana
- \\ uwyveti endoTel iumi
- \\ kupferis uj redebi

\\ \\ qvemoT CamoTvl il i gzebidan roml iT axorciel ebs mikronaoWi ani uj redi antisxeul is transports?

- \\ sekrecia
- \\ receptorebiT warmoebul i endocitozi
- \\ fagocitozi
- \\ pinocitozi

\\ \\ \\ qvemoT CamoTvl il i kavSirebidan romel i gvxxvdeba naRvl is kapil arebis midamoSi?

\\ \\ desmosomebi

\\ \\ neqsusebi

\\ \\ mkvrivi kontaktebi

\\ \\ hemidesmosomebi

\\ \\ \\ qvemoT CamoTvl il Tagan, nawl avis romel i ubani Seicavs yvel aze meti raodenobiT I imfur fol ikul ebs?

\\ \\ ml ivi nawl avi

\\ \\ TeZos nawl avi

\\ \\ Tormetgoj a nawl avi

\\ \\ Wiayel a danamati

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis hepatocitebis vaskul ur zedapirebs?

\\ \\ kavSiri sinusoidur kapil arebTan

\\ \\ sada konturi

\\ \\ kavSiri dises sivrcesTan

\\ \\ kargad gamoxatul i bazal uri membrana

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i ar aris saerTo pankreasisa da ybayura jirkvl isaTvis?

\\ \\ wil akovani Seneba

\\ \\ bazofil uri jirkvl ovani uj redebi

\\ \\ CarTul i sadinari

\\ \\ zol iani sadinari

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs I izocims?

\\ \\ mikronaoWi ani

\\ \\ panetis

\\ \\ fial isebri

\\ \\ enteroendokrinul i

\\ \\ \\ qvemoT CamoTvl il Tagan, romel i tipis uj redebi aris yvel aze mraval ricxovani I angerhansis kunZul ebSi?

\\ \\ A

\\ \\ B

\\ \\ D

\\ \\ F

\\ \\ \\ qvemoT CamoTvl il i pl azmis cil ebidan romel i ar warmoiqmneba hepatocitebSi?

\\ \\ al buminebi

\\ \\ imunogl obul inebi

\\ \\ fibrinogeni

\\ \\ proTrombini

\\ \\ \\ saWml is momnel ebel i sistemis qvemoT CamoTvl il i organoebidan romel Si iqmneba kunTovani garsi sami SriT?

\\ \\ kuWSi

\\ \\ Tormetgoj a nawl avSi

\\ \\ TeZos nawl avSi

\\ \\ msxvil nawl avSi

\\ \\ qvemoT CamoTvl il Tagan, fundusis romel ubanSi gv xvdeba upiratesad
pariesul i uj redebi?
\\ \\ yel sa da ZirSi
\\ \\ yel sa da sxeul Si
\\ \\ sxeul sa da ZirSi
\\ \\ mxol od ZirSi

\\ \\ qvemoT CamoTvl il i struqturibidan romel i mdebareobs portul i
wil akis centrSi?
\\ \\ central uri vena
\\ \\ naRvl is kapil ari
\\ \\ portul i triada
\\ \\ dises sivrce

\\ \\ kbil is qvemoT CamoTvl il i nawil ebidan romel ia yvel aze mtkice?
\\ \\ minanqari
\\ \\ dentini
\\ \\ duRabi
\\ \\ pul pa

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar Sedis pul pis Semadgenl obaSi?
\\ \\ pl azmuri uj redebi
\\ \\ fibrobl astebi
\\ \\ odontobl atebi
\\ \\ cementocitebi

\\ \\ qvemoT CamoTvl il i struqturibidan romel i iTvl eba RviZl is
struqturul -funqciur erTeul ad?
\\ \\ hepatociti
\\ \\ RviZl is firfita
\\ \\ portul i triada
\\ \\ wil aki

\\ \\ pankreasis qvemoT CamoTvl il i ubnebidan sad mdebareobs centroacinozuri
uj redebi?
\\ \\ acinozur uj redebs Soris
\\ \\ CarTul i sadinris sanaTurSi Cadrekis ubnebSi
\\ \\ wil akSiga sadinris kedel Si
\\ \\ mioepiTel uri uj redebis gverdiT

\\ \\ qvemoT CamoTvl il Tagan, wvril i nawl avis epiTel uri firfitis romel i
uj redebis qveS mdebareobs didi raodenobIT I imfocitebi?
\\ \\ yaeTnovani
\\ \\ paneTis
\\ \\ mikronaoWi ani
\\ \\ fial isebri

\\ \\ nawl avis qvemoT CamoTvl il i nawil ebidan romel i Seicavs I orwqveSa
CanafenSi j irkvl ebs?
\\ \\ Tormetgoj a
\\ \\ ml ivi
\\ \\ kol inj i
\\ \\ Wiayel a danamati

\\ \\ kbil is qvemoT CamoTvl il i nawil ebidan romel s aqvs epiTel uri warmoSoba?
\\ \\ dentini

\\ duRabi
\\ pul pa
\\ mi nanqari

\\ \\ \\ qvemoT CamoTvl il Tagan, enis romel i dvril is epiTel iumi ganicdis
nawil obriv garqovanebas?

\\ Zafisebri
\\ sokosebri
\\ SemozRudul i
\\ foTI isebri

\\ \\ \\ qvemoT CamoTvl il Tagan, saWml is momnel ebel i arxis kedl is romel garsSi
mdebareobs meisneris wnul i?

\\ I orwovan
\\ I orwqveSa
\\ kunTovan
\\ adventiciur

\\ \\ \\ upiratesad romel i kl asis imunogl obul inebis gamoimuSavebs nawl avis
I orwovani garsis sakuTari firfitis pl azmuri uj redebi?

\\ IgA
\\ IgG
\\ IgD
\\ IgE

\\ \\ \\ qvemoT CamoTvl il Tagan, RviZI is romel ubanSi mdebareobs pirvel adi
sanaRvl e kapil arebi?

\\ portul sivrceebSi
\\ RviZI is firfitaSi
\\ dises sivrceSi
\\ triadaSi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS RviZI is
kapil arebs?

\\ somaturi tipisaa
\\ sqel bazal ur membranaze mdebareobs
\\ mravl obiT forebs Seicavs
\\ portul sivrceebSi mdebareobs

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel ia yvel aze mraval ricxovani
msxvil i nawl avis kriptebsi?

\\ fial isebri
\\ paneTis
\\ mikronaoWi ani
\\ enteroendokrinul i

\\ \\ \\ qvemoT CamoTvl il i struqturul -funqciuri Taviseburebebidan romel i
axasiaTebS paneTis uj reds?

\\ gvxdaba xaos Semadgenl obaSi
\\ gamoimuSavebs I orwos
\\ eozinofil ur granul ebs Seicavs
\\ IgA-s transportSi monawil eobs

\\ \\ \\ qvemoT CamoTvl il i struqturul -funqciuri Taviseburebebidan romel i
axasiaTebS yaeTnovan uj reds?

\\ brtyel i forma

\\ wamwamebi
\\ absorbciiis unari
\\ I orwos warmoqmna

\\ \\ kuWis mTavari j irkvl ebis qvemoT CamoTvl i-l i uj redebidan romel i xasiaTdeba maRal i prol iferaciul i aqtivobiT?

\\ mTavari uj redebi
\\ yel is uj redebi
\\ pariesul i uj redebi
\\ I orwovani uj redebi

\\ \\ ramdeni garsia saWml is momnel ebel i mil is kedl is Semadgenl obaSi?

\\ 2
\\ 3
\\ 4
\\ 5

\\ \\ qvemoT CamoTvl il Tagan romel i aRniSnavs sworad I orwovani garsis firfitebis dasaxel ebebs?

\\ epiTel uri, I orwovani, nervul i
\\ epiTel uri, sakuTari, kunTovani
\\ epiTel uri, I orwqveSa, kunTovani
\\ epiTel uri, j irkvl ovani, marcvl ovani

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis I orwovani garsis sakuTar firfitas?

\\ faSari uformo
\\ mkvrivi uformo
\\ mkvrivi formiani
\\ retikul uri

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis I orwqveSa garss?

\\ faSari uformo
\\ mkvrivi uformo
\\ mkvrivi formiani
\\ retikul uri

\\ \\ kunTovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis sayl apavis dasawyis nawil Si kunTovan garss?

\\ ganivzol iani ConCxis
\\ ganivzol iani gul is
\\ gl uvi
\\ mioepiTel uri

\\ \\ kunTovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis sayl apavis bol o nawil Si kunTovan garss?

\\ ganivzol iani ConCxis
\\ ganivzol iani gul is
\\ gl uvi
\\ mioepiTel uri

\\ \\ saWml is momnel ebel i sistemis qvemoT CamoTvl il i organoebidan romel i ar Seicavs I orwqveSa garss?

\\ sayl apavi
\\ ena

\\ kuWi
\\ wvriL i nawl avi

\\ \\ saWml is momnel ebel i sistemis qvemoT CamoTvl il i organoebidan romel i Seicavs dvril ebs?

\\ RrZil i
\\ ena
\\ sasa
\\ l oya

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i amofens piriS Rrus, xaxas da sayl apavs?

\\ erTSriani kuburi
\\ erTSriani brtyel i
\\ mraVal Sriani brtyel i gaurqovanebul i
\\ mraVal Sriani brtyel i garqovanebul i

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i amofens kuWs?

\\ erTSriani brtyel i
\\ erTSriani cil indrul i jirkvl ovani
\\ erTSriani cil indrul i wamwamovani
\\ erTSriani kuburi

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i amofens wvriL nawl avs?

\\ erTSriani cil indrul i jirkvl ovani
\\ erTSriani cil indrul i yaeTnovani
\\ mraVal Sriani brtyel i garqovanebul i
\\ mraVal Sriani brtyel i gaurqovanebul i

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel s gamoimuSavebs fundusis jirkvl ebis mTavari uj redebi?

\\ maril mJavas
\\ l orwos
\\ pepsinogens
\\ l izocims

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel s gamoimuSavebs fundusis jirkvl ebis pariesul i uj redebi?

\\ maril mJavas
\\ l orwos
\\ pepsinogens
\\ l izocims

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel s gamoimuSavebs paneTis uj redi?

\\ maril mJavas
\\ l orwos
\\ pepsinogens
\\ l izocims

\\ \\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs l izocims?

\\ yaeTnovani
\\ paneTis
\\ fial isebri
\\ pariesul i

\\\\ wvri l i nawl avis epiTel uri firfitis qvemoT CamoTvl il i uj redebidan romel i monawil eobs Sewovis procesSi?
\\ fial ise b ri
\\ yaeTnovani
\\ paneTis
\\ enteroendokrinul i

\\\\ wvri l i nawl avis epiTel uri firfitis qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs l orwos?
\\ fial ise b ri
\\ yaeTnovani
\\ paneTis
\\ enteroendokrinul i

\\\\ qvemoT CamoTvl il i nivTiererebidan romel s gamoimuSavebs fial ise b ri uj redebi?
\\ l izocims
\\ l orwos
\\ gastrins
\\ pankreozi mi ns

\\\\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba pankreas is endokrinul nawil Si?
\\ gl ukagoni
\\ adrenal ini
\\ Tiroqsini
\\ pankreozi mi ni

\\\\ qvemoT CamoTvl il i jirkvl ebidan roml iT iqmneba pankreas is egzokrinul i nawil i?
\\ martivi al veol uri
\\ martivi mil akovani
\\ rTul i al veol uri
\\ rTul i mil akovani

\\\\ qvemoT CamoTvl il Tagan uj redebis rogori ganl agebaa damaxasiaTebel i pankreas is endokrinul i nawil isaTvis?
\\ Wimebi
\\ fol i kul ebi
\\ kunZul ebi
\\ badise b ri

\\\\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba pankreas is endokrinul nawil Si?
\\ somatotropul i
\\ insul ini
\\ al dosteroni
\\ kortizol i

\\\\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs RviZl i?
\\ pl azmi s cil ebi s inTezi
\\ gl ukoneogenezi
\\ anti sxeul ebi s inTezi
\\ naRvel is warmoqmna

\\ \\ qvemoT CamoTvl il i kapil arebis tipebidan romel i gv xvdeba RviZl Si?
\\ \\ somaturi
\\ \\ sinusoiduri
\\ \\ viscerul i diafragmiT
\\ \\ viscerul i diafragmis gareSe

\\ \\ qvemoT CamoTvl il i struqturēbidan romel i mdebareobs portul
sivrceebSi?
\\ \\ RviZl is firfitebi
\\ \\ triadebi
\\ \\ wil akebi
\\ \\ sinusoiduri kapil arebi

\\ \\ qvemoT CamoTvl il Tagan, romel i saxis uj redebi ar gv xvdeba respiraciul
epiTel iumis Semadgenl obaSi?
\\ \\ wamwamiani uj redebi
\\ \\ yaeTnovani uj redebi
\\ \\ respiraciul i al veol ociti
\\ \\ bazal uri uj redebi

\\ \\ qvemoT CamoTvl il i struqturul -funqciuri Taviseburebeidan romel i
axasiaTebis respiraciul i epiTel iumis bazal ur uj redebs?
\\ \\ maRal i cil indrul i forma
\\ \\ maRal i prol iferaciul i aqtivoba
\\ \\ bazal ur zedapirze wamwamebis arseboba
\\ \\ sekreciul i aqtivoba

\\ \\ qvemoT CamoTvl il i cvl il ebebidan romel s ganicdis mraVal rigiani
epiTel iumi bronqul i xis datotvasTan erTad?
\\ \\ icvl eba mraVal Sriani brtyel i epiTel iumiT
\\ \\ icvl eba erTSriani kuburi epiTel iumiT
\\ \\ sul ufro met fial isebr uj reds Seicavs
\\ \\ sul ufro met wamwamian uj reds Seicavs

\\ \\ qvemoT CamoTvl il Tagan, respiraciul i epiTel iumis romel i uj redi
xasiaTdeba maRal i prol iferaciul i aqtivobiT?
\\ \\ fial iseбри
\\ \\ mcire granul ebiani
\\ \\ bazal uri
\\ \\ wamwamiani

\\ \\ qvemoT CamoTvl il Tagan, respiraciul i epiTel iumis romel i uj redi
miekuTvneba difuzur neiroendokrinul sistemas?
\\ \\ fial iseбри
\\ \\ yaeTnovani
\\ \\ bazal uri
\\ \\ mcire granul ebiani

\\ \\ qvemoT CamoTvl il Tagan, respiraciul i epiTel iumis romel i uj redi ver
aRwevs sanaTuris zedapirs?
\\ \\ bazal uri
\\ \\ wamwamiani cil indrul i
\\ \\ fial iseбри
\\ \\ yaeTnovani

\\ \\ qvemoT CamoTvl il i struqturēbidan roml is arseboba ganasxvavebs
pirvel ad bronqs traqēisagan?
\\ \\ respiraciul i epiTel iumi
\\ \\ xrtil ovani rgol ebi
\\ \\ jirkvl ebi
\\ \\ wamwamiani uj redebi

\\ \\ qvemoT CamoTvl il i struqturēbidan romel i ar gvxdēba wil ovani
bronqebis l orwovani garsis sakuTar firfitaSi?
\\ \\ jirkvl ebi
\\ \\ l imfuri fol ikul ebi
\\ \\ xrtil ovani firfitebi
\\ \\ gl uvkunTovani boWkoebis konebi

\\ \\ qvemoT CamoTvl il Tagan, sasunTqi sistemis romel nawil Si ar gvxdēba
jirkvl ebi?
\\ \\ traqea
\\ \\ wil ovani bronqi
\\ \\ segmenturi bronqi
\\ \\ bronqiol a

\\ \\ qvemoT CamoTvl il Tagan, sasunTqi sistemis romel nawil Si aRar gvxdēba
xrtil ovani qsovil i?
\\ \\ pirvel adi bronqi
\\ \\ wil ovani bronqi
\\ \\ segmenturi bronqi
\\ \\ bronqiol a

\\ \\ qvemoT CamoTvl il Tagan, sasunTqi sistemis romel i nawil i aris amofenil i
erTSriani cil indrul i wamwamovani epiTel iumiT?
\\ \\ didi bronqiol a
\\ \\ terminal uri bronqiol a
\\ \\ al veol uri parki
\\ \\ al veol uri saval ebi

\\ \\ qvemoT CamoTvl il Tagan, sasunTqi sistemis romel nawil Si ar gvxdēba
gl uvkunTovani el ementebi?
\\ \\ terminal uri bronqiol a
\\ \\ respiraciul i bronqiol a
\\ \\ al veol uri saval i
\\ \\ al veol uri parki

\\ \\ qvemoT CamoTvl il i struqturēbidan roml is arseboba ganasxvavebs
respiraciul bronqiol as terminal uri bronqiol isagan?
\\ \\ al veol ebi
\\ \\ kuburi formis epiTel uri uj redebi
\\ \\ wamwamiani uj redebi
\\ \\ kl ara uj redebi

\\ \\ ra cvl il ebas ganicdis respiraciul i bronqiol as terminal uri nawil is
mimarTul ebiT al veol ebis ricxvi?
\\ \\ mcirdeba
\\ \\ izrdeba
\\ \\ ar icvl eba
\\ \\ qreba

\\ \\ qvemoT CamoTvl il Tagan, sasunTqi sistemis romel i nawil is kedel Si ar gvxvdeba al veol ebi?
\\ terminal uri bronqiol a
\\ respiraciul i bronqiol a
\\ al veol uri saval i
\\ al veol uri parki

\\ \\ qvemoT CamoTvl il i struqturubidan romel i ar gvxvdeba al veol aTaSor is Zgi deSi?
\\ sisxl is kapil arebi
\\ makrofagebi
\\ el astikuri boWkoebi
\\ l imfuri fol ikul ebi

\\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTeb s l tipis al veol ocits?
\\ airTa cvl aSi monawil eoba
\\ surfaqtantis warmomna
\\ peptidebis sekrecia
\\ l orwos sekrecia

\\ \\ qvemoT CamoTvl il i struqturul -funqciuri Tavis eburebebidan romel i axasiaTeb s l tipis al veol ocits?
\\ dabal i prol iferaciul i aqtivoba
\\ citopl azmaSi firfitovani sx eul ebis arseboba
\\ surfaqtantis sekrecia
\\ hema-haerovani barrieris SeqmnaSi monawil eoba

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs surfaqtanti?
\\ amcirebs al veol ebis zedapiris daWimul obas
\\ xel s uwyobs al veol ebis CafuSvas
\\ zrdis airTa cvl is intensivobas
\\ zrdis al veol ebis zedapiris daWimul obas

\\ \\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs surfaqtants?
\\ fial isebri
\\ didi al veol ociti
\\ mcire granul ebiani
\\ l tipis al veol ociti

\\ \\ qvemoT CamoTvl il i kapil arebidan romel i gvxvdeba al veol aTSor is Zgi deebSi?
\\ somaturi
\\ viscerul i diafrgmi ani
\\ viscerul i diafragmis gareSe
\\ sinusoiduri

\\ \\ qvemoT CamoTvl il i struqturul -funqciuri Tavis eburebebidan romel i axasiaTeb s al veol ur makrofagebs?
\\ monocituri warmoSoba
\\ monawil eobs surfaqtantis ganaxl ebaSi
\\ monawil eobs surfaqtantis warmomnaSi
\\ Sedis hema-haerovani barrieris Semadgenl obaSi

\\ \\ ramdeni garsisgan Sedgeba haergamtari gzebis kedel i?
\\ 1

- \\ 2
- \\ 3
- \\ 4

\\ \\ epiTel iumis qvemoT CamoTvl il i saxeebidan romel i amofens haergamtar gzebs?

- \\ mezoTel iumi
- \\ endoTel iumi
- \\ jirkvl ovani
- \\ respiraciul i

\\ \\ erTSriani epiTel iumis qvemoT CamoTvl il i saxeebidan romel i amofens haergamtar gzebs?

- \\ brtyel i
- \\ kuburi
- \\ cil indrul i
- \\ mraval rigiani wamwamiani

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar Sedis respiraciul i epiTel iumis Semadgenl obaSi?

- \\ didi al veol ociti
- \\ bazal uri
- \\ wamwamiani
- \\ fial isebri

\\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs hema-haerovani barrieris SeqmnaSi?

- \\ didi al veol ociti
- \\ brtyel i al veol ociti
- \\ fial isebri uj redi
- \\ kl ara uj redi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i warmoqmni surfaqtants?

- \\ fial isebri uj redi
- \\ kl ara uj redi
- \\ didi al veol ociti
- \\ bazal uri uj redi

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs brtyel i al veol ociti?

- \\ surfaqtantis sekrecia
- \\ l orwos sekrecia
- \\ airTa cvl aSi monawil eoba
- \\ haergamtari gzebis dasufTaveba

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs didi al veol ociti?

- \\ l orwos sekrecia
- \\ surfaqtantis warmoqmna
- \\ fagocitozi
- \\ airTa cvl a

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs surfaqtanti?

- \\ amcirebs al veol is zedapisis daWimul obas
- \\ xel s uSl is al veol is kedl is CafuSvas
- \\ monawil eobs hema-haerovani barrieris SeqmnaSi
- \\ zrdis al veol is zedapisis farTobs

\\ \\ \\ qvemoT CamoTvl il i struqturubidan romel i ar monawil eobs hema-haerovani barieris SeqmnaSi?

- \\ \\ brtyel i al veol ociti
- \\ \\ didi al veol ociti
- \\ \\ ormagi bazal uri membrana
- \\ \\ endoTel uri uj redi

\\ \\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i axasiaTebis. iuqstamedul ur nefronebs?

- \\ \\ qmnis Tirkml is endokrinul aparats
- \\ \\ qerqovani da tvinovani nivTierEBis sazRvarze mdebareobs
- \\ \\ bevrad ufro mraVal ricxovania, vidre qerqovani nefronebi
- \\ \\ ar Seicavs Tirkml is sxeul akebs

\\ \\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i axasiaTebis qerqovan nefronebs?

- \\ \\ qerqovani da tvinovani nivTierEBis sazRvarze mdebareobs
- \\ \\ nefronebis daaxl oebiT 1/7-s qmnis
- \\ \\ qerqovani nivTierEBis sisqeSi mdebareobs
- \\ \\ Zal ian grZel henl es maryuJs Seicavs

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis boumanis kafsul is SigniTa furcel s?

- \\ \\ nefrociti
- \\ \\ podociti
- \\ \\ mezangiociti
- \\ \\ endoTel iociti

\\ \\ \\ qvemoT CamoTvl il Tagan, nefronis romel ubanSi mimdinareobs fil tracia?

- \\ \\ Tirkml is sxeul aki
- \\ \\ proqsimal uri kl aknil i mil aki
- \\ \\ henl es maryuJi
- \\ \\ distal uri kl aknil i mil aki

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis boumanis kafsul is gareTa furcel s?

- \\ \\ nefrociti
- \\ \\ podociti
- \\ \\ mezangiociti
- \\ \\ endiTel iociti

\\ \\ \\ nefronis romel i nawil is saxecvl il i uj redebi qmnis mkvriV xal s?

- \\ \\ distal uri kl aknil i mil aki
- \\ \\ momtani arteriol a
- \\ \\ gamomtani arteriol a
- \\ \\ proqsimal uri kl aknil i mil aki

\\ \\ \\ nefronis romel i nawil is saxecvl il i uj redebi qmnis iuqstagl omerul ur uj redebs?

- \\ \\ distal uri kl aknil i mil aki
- \\ \\ momtani arteriol a
- \\ \\ gamomtani arteriol a
- \\ \\ proqsimal uri kl aknil i mil aki

\\ \\ \\ qvemoT CamoTvl il Tagan, Tirkml is sxoul akis romel i el ementi asrul ebs safil tracio barrieris rol s?

\\ \\ endoTel iumi

\\ \\ podocitebi

\\ \\ nefrocitebi

\\ \\ bazal uri membrana

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis Tirkml is sxoul akis sixl ZarRvovani gorgal is kapil arebs?

\\ \\ somaturi tipisaa

\\ \\ samSrian bazal ur membranaze mdebareoba

\\ \\ endoTel iumSi didi raodenobiT pinocitozur buStukebis arseboba

\\ \\ bazal uri membranis ararseboba

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis podocitebs?

\\ \\ kafsul is pariesul i furcl is uj redebia

\\ \\ citopodiebiT uSual od gorgl is kapil arebis endoTel ur uj redebs exebea

\\ \\ gorgl is kapil arebisagan sqel i bazal uri membraniT aris gamoyofil i

\\ \\ qmnis Tirkml is endokrinul aparats

\\ \\ \\ qvemoT CamoTvl il i romel i struqturabis gaerTianebiT iqmneba safil tracio barrierSi bazal uri membrana?

\\ \\ kafsul i pariesul i da viscerul i furcl ebi

\\ \\ podocitisa da endoTel iocitis bazal uri firfita

\\ \\ nefrocitisa da podocitis citol ema

\\ \\ nefrocitisa da endoTel iocitebis bazal uri firfita

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis mezangioci tebs?

\\ \\ fil traciul i barrieris Seqmna

\\ \\ fagocitozi

\\ \\ reninis sekrecia

\\ \\ fil traciis procesSi monawil eoba

\\ \\ \\ qvemoT CamoTvl il Tagan, Tirkml is sxoul akis romel ubanSi mdebareobs mezangiocitebi?

\\ \\ kafsul is gareTa furcel i

\\ \\ momtani arteriol as kedel i

\\ \\ gorgl is kapil arebs Soris

\\ \\ kapsul is Rru

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis proqsimal ur kl aknil mil aks?

\\ \\ mdebareobs momtan da gamomtan arteriol as Soris

\\ \\ iwyeba Tirkml is sxoul akis vaskul uri pol usidan

\\ \\ monawil eobs Tirkml is endokrinul i aparatis SeqmnaSi

\\ \\ amofenilia yaeTnovani epiTel iumiT

\\ \\ \\ qvemoT CamoTvl il i struqturabidan roml is arsebobaa damaxasiaTebel i proqsimal uri kl aknil i mil akis amomfeni uj redebis apikal ur zedapirze?

\\ \\ coxisebri yaeTani

\\ \\ stereocilia

\\ \\ wamwami

\\ \\ invaginaciebi

\\ \\ \\ CamoTvl il Tagan, nefronis romel i ubnis uj redebs axasiaTebis bazal uri zol ianobis arseboba?

- \\ distal uri kl aknil i mil aki
- \\ henl es maryuWis aRmaval i toti
- \\ henl es maryuJis daRmaval i toti
- \\ Semkrebi mil aki

\\ \\ \\ CamoTvl il Tagan, nefronis romel i ubnis uj redebs axasiaTebis cocxisebri yaeTanis arseboba?

- \\ distal uri kl aknil i mil aki
- \\ henl es maryuWi
- \\ proqsimal uri kl aknil i mil aki
- \\ Semkrebi mil aki

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i ganasxvavebs distal ur kl aknil mil aks proqsimal urisagan?

- \\ mcire zomis uj redebi
- \\ kargad ganviTarebul i cocxisebri yaeTani
- \\ ganieri sanaTuri
- \\ bazal uri zol ianoba

\\ \\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i ar axasiaTebis distal uri kl aknil i mil akis amomfen uj redebs?

- \\ cocxisebr yaeTanis ar arseboba
- \\ bazal uri invaginaciebi
- \\ bazal uri zol ianoba
- \\ didi raodenobiT pinocitozuri buStukebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs renins?

- \\ mkvrivi xal is
- \\ mezangiocitebi
- \\ iuqstagl omerul i
- \\ podocitebi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis mkvrivi xal is uj redebs?

- \\ cil indrul i forma
- \\ faSari ganl ageba
- \\ bazal uri membranis ararseboba
- \\ cocxisebri yaeTani

\\ \\ \\ qvemoT CamoTvl il Tagan, epiTel iumis romel i tipi amofens Tirkml is menj s?

- \\ mraval Sriani brtyel i gaurqovanebul i
- \\ erTSriani cil indrul i
- \\ erTSriani kuburi
- \\ mraval Sriani gardamaval i

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i ganasxvavebs Sardis buStis I orwovani garsis epiTel uri uj redebs sxva epiTel uri uj redebisagan?

- \\ Cveul ebrivze ufro sqel i pl azmuri membrana
- \\ uj redis pol arul i Seneba
- \\ citokeratinebis arseboba
- \\ Camketi firfitebis arseboba

\\ \\ \\ qvemoT CamoTvl il i struqturubidan romel i warmoadgens Tirkml is struqturul -funqciur erTeul s?

- \\ qerqovani nivTiereba
- \\ tvinovani nivTiereba

- \\ piramidebi
- \\ nefroni

\\ \\ qvemoT CamoTvl il i procesebidan romel i udevs safuZvl ad Sardis warmogmnas?

- \\ reabsorbacia, retencia, sekrecia
- \\ fil tracia, reabsorbacia, sekrecia
- \\ fil tracia, eqskrecia, sekrecia
- \\ sekrecia, retencia, absorbacia

\\ \\ qvemoT CamoTvl il i procesebidan romel i mimdinareobs Tirkml is sxeul akSi?

- \\ reabsorbacia
- \\ retencia
- \\ fil tracia
- \\ sekrecia

\\ \\ kapi arebis qvemoT CamoTvl il i tipebidan romel i monawil eobs gorgl is SemqnaSi?

- \\ somaturi
- \\ fenestrul i diafragmiT
- \\ sinusoiduri
- \\ fenestrul i udiafragmo

\\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis boumanis kafsul is SigniTa furcel s?

- \\ nefrociti
- \\ podociti
- \\ mezangiociti
- \\ endoTel iociti

\\ \\ qvemoT CamoTvl il Tagan, nefronis romel ubanSi mimdinareobs fil tracia?

- \\ Tirkml is sxeul aki
- \\ proqsimal uri kl aknil i mil aki
- \\ henl es maryuJi
- \\ distal uri kl aknil i mil aki

\\ \\ nefronis romel i nawil is saxecvl il i uj redebi qmnis mkvriv xal s?

- \\ distal uri kl aknil i mil aki
- \\ momtani arteriol a
- \\ gamomtani arteriol a
- \\ proqsimal uri kl aknil i mil aki

\\ \\ nefronis qvemoT CamoTvl il i nawil ebidan romel i iqmneba podocitebiT?

- \\ kafsul is gareTa furcel i
- \\ kafsul is SigniTa furcel i
- \\ henl es maryuJi
- \\ Semkrebi mil akebi

\\ \\ kapi aris qvemoT CamoTvl il i tipebidan romel i qmnis peritubul ur wnul s nefronSi?

- \\ somaturi
- \\ viscerul i diafragmiT
- \\ viscerul i udiafragmoT
- \\ sinusoiduri

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel i mimdinareobs proqsimal ur
kl aknil mil akSi?
\\ \\ fil tracia da reabsorbacia
\\ \\ fil tracia da eqskrecia
\\ \\ reabsorbacia da eqskrecia
\\ \\ reabsorbacia da retencia

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel Si monawil eobs henl es maryuJi?
\\ \\ fil tracia
\\ \\ hipertonus obis gradientis Seqmna
\\ \\ reninis sekrecia
\\ \\ reabsorbacia

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel i mimdinareobs distal ur kl aknil
mil akSi?
\\ \\ fil tracia da reabsorbacia
\\ \\ fil tracia da eqskrecia
\\ \\ reabsorbacia da eqskrecia
\\ \\ reabsorbacia da retencia

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs Tirkml is
endokrinul i aparatis SeqmnaSi?
\\ \\ iugstagi omerul uri uj redebi
\\ \\ podocitebi
\\ \\ nefrocitebi
\\ \\ endotelocitebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs Tirkml is
endokrinul i aparatis SemqnaSi?
\\ \\ podocitebi
\\ \\ yafnovani uj redebi
\\ \\ mkvrivi xal is uj redebi
\\ \\ nefrocitebi

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba Tirkml is
endokrinul aparatSi?
\\ \\ vazopresini
\\ \\ aldosteroni
\\ \\ renini
\\ \\ medulipini

\\ \\ \\ epiteluri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens Sardis
gamontan gzebs?
\\ \\ mraval Sriani gardamaval i
\\ \\ mraval Sriani brtyel i gaurqovanebel i
\\ \\ ertSriani brtyel i
\\ \\ ertSriani cilindrul i

\\ \\ \\ ramdeni garsisgan Sedgeba Sardis buStis kedeli?
\\ \\ 2
\\ \\ 3
\\ \\ 5
\\ \\ 6

\\ \\ \\ qvemoT CamoTvl il i garsebidan romel i ar Sedis Sardis buStis kedeli is
Semadgenlobasi?

- \\ I orwovani
- \\ I orwqveSa
- \\ kunTovani
- \\ SemaerTqsovil ovani

\\ \\ qvemoT CamoTvl il i el ementebidan romel i monawil eobs hema-testikul uri barieris SeqmnaSi?

- \\ sertol is uj redebi
- \\ I eidigis uj redebi
- \\ fibrobl astebi
- \\ spermatogoniebi

\\ \\ qvemoT CamoTvl il Tagan, epiTel uri qsovil is romel i tipi amofens saTesl es danamatis sadinars?

- \\ mraVal SrIani gardamaval i
- \\ mraVal rigiani cil indrul i
- \\ mraVal arigiani cil indrul i mocimcime
- \\ erTSrIani yaeTnovani

\\ \\ qvemoT CamoTvl il i procesebidan romel s ganicdis atreziul i fol ikul i?

- \\ ovul acia
- \\ I uTeinizacia
- \\ ukuganvi Tareba
- \\ momwi feba

\\ \\ qvemoT CamoTvl il i garsebidan roml is arseboba ar aris damaxasiaTebel i saSvil osnosaTvis?

- \\ I orwovani
- \\ I orwqveSa
- \\ kunTovani
- \\ serozul i

\\ \\ qvemoT CamoTvl il i procesebidan roml iT iwyeba pirvel adi fol ikul is atrezia sakvercxesi?

- \\ marcvl ovani Sris uj redebis gamravl ebiT
- \\ marcvl ovani Sris uj redebis degeneraciiT
- \\ kvecxuj redis degeneraciiT
- \\ Tekas rRveviT

\\ \\ qvemoT CamoTvl il Tagan, rogori tipis jirkvl ebs miekuTvneba endometriumis jirkvl ebi?

- \\ martivi al veol uri
- \\ rTul i mil akovani
- \\ martivi mil akovani
- \\ rTul i al evol ur-mil akovani

\\ \\ qvemoT CamoTvl il Tagn, romel i fol ikul i Seicavs II rigis oocits?

- \\ primordiul i fol ikul i
- \\ mzardi fol ikul i
- \\ meoradi fol ikul i
- \\ graafis buStuki

\\ \\ qvemoT CamoTvl il i hormonebidan romel i aregul irebs upiratesad sakvercxis fol ikul ur fazas?

- \\ estrogeni
- \\ fol ikul mastimul irebel i hormoni

- \\ mal uTeinizebel i hormoni
- \\ prol aqtini

\\ \\ qvemoT CamoTvl il i warmonaqmnebidan romel i gv xvdeba saTesl is danamatis amomfeni uj redebis zedapirze?

- \\ wamwamebi
- \\ Sol ti
- \\ stereocil iebi
- \\ mikroxaoebi

\\ \\ qvemoT CamoTvl il i funqciebidan romel i ar axasiaTeb serto l is uj redebs?

- \\ sayrdeni
- \\ spermatogenuri epiTel iumis regeneracia
- \\ fagocitozi
- \\ sekrecia

\\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTeb serto l is uj redebs?

- \\ spermatogenuri epiTel iumis regeneracia
- \\ androgenebis sinTezi
- \\ anti-miul erul i hormonis sekrecia
- \\ meiozuri gayofa

\\ \\ qvemoT CamoTvl il i kavSirebidan roml is meSveobiT qmnis serto l is uj redebi hema-testikul ur bariers?

- \\ Camketi firfita
- \\ desmosoma
- \\ hemidesmosoma
- \\ neqsusi

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i ar axasiaTeb serto l is uj reds?

- \\ piramidul i forma
- \\ mil akis kedl is mTel sisqeSi mdebareoba
- \\ bazal ur membranaze mdebareoba
- \\ apikal ur zedapirze brma sartyl ebis arseboba

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTeb l eidigis uj redebs?

- \\ saTesl es kl aknil i mil akebis kedel Si mdebareoba
- \\ piramidul i forma
- \\ asakis matebasTan raodenobrivi mateba
- \\ saTesl is intersticiu mSi mdebareoba

\\ \\ qvemoT CamoTvl il Tagan, spermatogenuri epiTel iumis romel i uj redi mdebareobs kl aknil i mil akis bazal ur kompartmentSi?

- \\ spermatogoniebi
- \\ rigis spermatociti
- \\ spermatida
- \\ spermatozoidi

\\ \\ qvemoT CamoTvl il Tagan, spermatogenuri epiTel iumis romel i uj redi ar gv xvdeba kl aknil i mil akis sanaTurismxriv kompartmentSi?

- \\ l rigis spermatociti
- \\ spermatogoniebi
- \\ spermatida
- \\ spermatozoidi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs hema-testikul uri barieri?

- \\ \\ icavs I eidigis uj redebs garemos damazianebel i moqmedebisagan
- \\ \\ spermatogoniebs bazal ur membranisagan gamoyofssanaTurismxriv kompartmentSi pirobebs qmnis spermatozoidemis ganviTarebisaTvis
- \\ \\ sanaTurismxriv kompartmentSi pirobebs qmnis spermatozoidemis ganviTarebisaTvis
- \\ \\ erTmaneTisagan acal kevebs sertol is uj redebs da ganviTareba spermatozoidemis

\\ \\ \\ qvemoT CamoTvl il Tagan, prostatis romel i nawil i warmoadgens adenomis ganviTarebis Cveul ubans?

- \\ \\ gardamaval i zona
- \\ \\ central uri zona
- \\ \\ periferiul i zona
- \\ \\ kafsul a

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs I eidigis uj redebi?

- \\ \\ fagocitozi
- \\ \\ antimiul erul i hormonis warmoqmna
- \\ \\ testosteronis sekrecia
- \\ \\ trofika

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTebis sertol is uj redebs?

- \\ \\ spermatogenuri epiTel iumis regeneracia
- \\ \\ androgenebis sinTezi
- \\ \\ anti-miul erul i hormonis sekrecia
- \\ \\ meiozuri gayofa

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel i ar axasiaTebis sertol is uj redebs?

- \\ \\ sayrdeni
- \\ \\ spermatogenuri epiTel iumis regeneracia
- \\ \\ fagocitozi
- \\ \\ sekrecia

\\ \\ \\ qvemoT CamoTvl il i garsebidan roml is arseboba ar aris damaxasiaTebel i saSvil osnosaTvis?

- \\ \\ I orwovani
- \\ \\ I orwqveSa
- \\ \\ kunTovani
- \\ \\ serozul i

\\ \\ \\ spermatozoidis qvemoT CamoTvl il i nawil ebidan romel i uzrunvel yofs mis moZraobas?

- \\ \\ Tavi
- \\ \\ yel i
- \\ \\ sxeul i
- \\ \\ kudi

\\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel i qmnis winamdebare jirkval s?

- \\ \\ martivi mil akovani
- \\ \\ rTul i al veol ur-mil akovani
- \\ \\ rTul i al veol uri
- \\ \\ martivi al veol ur-mil akovani

\\ \\ qvemoT CamoTvl il Tagan, sakvercxis romel i fol ikul i Seicavs antrums?
\\ \\ primordiul i
\\ \\ pirvel adi
\\ \\ mzardi
\\ \\ mwife

\\ \\ qvemoT CamoTvl il Tagan, sakvercxis romel i fol ikul i ar Seicavs I rigis ooci ts?
\\ \\ primordiul i
\\ \\ mzardi
\\ \\ meoradi
\\ \\ graafis

\\ \\ qvemoT CamoTvl il Tagan, sakvercxis romel i fol ikul i ganicdis ovul acias?
\\ \\ primordiul i
\\ \\ mzardi
\\ \\ meoradi
\\ \\ graafis

\\ \\ qvemo CamoTvl il i procesebidan romel s warmoadgens ovul acia?
\\ \\ pirvel adi fol ikul is meorad fol ikul ad gardaqmna
\\ \\ mwife fol ikul is gaskdoma
\\ \\ Tekas momwifeba
\\ \\ antrumis warmoqmna

\\ \\ qvemoT CamoTvl il Tagan, romel i procesi uZRvis win didi zomis fol ikul ebis atrezias?
\\ \\ marcvl ovani Sris uj redebis gamravl eba
\\ \\ marcvl ovani Sris uj redebis degeneracia
\\ \\ kvercxuj redis degeneracia
\\ \\ Tekas rRveva

\\ \\ qvemoT CamoTvl il i struqtirebidan romel i aZl evs uSual o dasabams ovul aciis Semdeg yviTel sxeul is ganviTarebas?
\\ \\ pirvel adi fol ikul i
\\ \\ meoradi fol ikul i
\\ \\ graafis buStuki
\\ \\ atreziul i fol ikul i

\\ \\ qvemoT CamoTvl il i procesebidan romel i ar aris damokidebul i hipofizis gonadotropul hormonebze?
\\ \\ pirvel adi fol ikul is formireba
\\ \\ mzardi fol ikul is formireba
\\ \\ mwife fol ikul is warmoqmna
\\ \\ ovul acia

\\ \\ qvemoT CamoTvl il i hormonebidan romel i aregul irebs upiratesad sakvercxis yviTel i sxeul is fazas?
\\ \\ estrogeni
\\ \\ fol ikul mastimul irebel i hormoni
\\ \\ mal uTeinizebel i hormoni
\\ \\ prol aqtini

\\\\ qvemoT CamoTvl il i struqturēbidan romel i monawil eobs saSvil osnos
I orwovani garsis epitel uri firfitis aRdgenaSi?

\\\\ I orwovani garsis funqciuri Sre

\\\\ jirkvl ebis terminal uri nawil ebi

\\\\ sakuTari firfita

\\\\ jirkvl is sadinrebi

\\\\ sakvercxis fol ikul ebis qvemoT CamoTvl il i saxeebidan romel ia mwife
fol ikul i?

\\\\ primordiul i

\\\\ pirvel adi

\\\\ mzardi

\\\\ graafis

\\\\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba sakvercxēSi?

\\\\ kortizoni da kortizol i

\\\\ testosteroni da estrogeni

\\\\ estrogeni da progesteroni

\\\\ al dosteoni da kortizol i

\\\\ qvemoT CamoTvl il i hormonebidan romel s gamoi muSavebs yviTel i sxēul i?

\\\\ estrogeni

\\\\ antimiul erul i

\\\\ progesteroni

\\\\ testosteroni

\\\\ qvemoT CamoTvl il Tagan romel i qmnis perimetriums umetes adgil as?

\\\\ adventiciuri garsi

\\\\ sakuTari firfita

\\\\ serozul i garsi

\\\\ el astikuri membrana

\\\\ sakvercxis fol ikul ebis qvemoT CamoTvl il i saxeebidan romel i ganiCdīs
ovul acias?

\\\\ graafis

\\\\ pirvel adi

\\\\ mzardi

\\\\ meoradi

\\\\ sakvercxis fol ikul ebis qvemoT CamoTvl il i saxeebidan romel i aZl evs
dasabams yviTel sxēul s?

\\\\ atreziul i

\\\\ mwife

\\\\ pirvel adi

\\\\ meoradi

\\\\ sakvercxis fol ikul ebis qvemoT CamoTvl il i saxeebidan romel ia fol ikul i
romel ic ukuganviTarebas ganiCdīs?

\\\\ mwife

\\\\ ovul aciuri

\\\\ atreziul i

\\\\ graafis

\\\\ kanis qvemoT CamoTvl il i Sreebidan romel i iqmneba mkvrivi boWkovani
SemaerTebel i qsovil iT?

\\\\ epidermisi

- \\ dvril ovani
- \\ badebrivi
- \\ hipoderma

\\ \\ kanis qvemoT CamoTvl il i Sreebidan romel i iqmneba faSari SemaerTebel i qsovil iT?

- \\ epidermisi
- \\ dvril ovani
- \\ badebrivi
- \\ hipoderma

\\ \\ SemaerTebel i qsovil is romel i Sre mdebareobs uSual od epidermisis qveS?

- \\ sakuTari firfita
- \\ dvril ovani
- \\ badebrivi
- \\ hipoderma

\\ \\ qvemoT CamoTvl il i nervul i dabol oebebidan romel i mdebareobs dermis dvril ebSi?

- \\ paCinis sxeul akebi
- \\ meisneris sxeul akebi
- \\ krauzes kol bebi
- \\ merkel is sxeul akebi

\\ \\ qvemoT CamoTvl il i nervul i dabol oebebidan romel i mdebareobs Rrmad dermaSi an hipodermaSi?

- \\ paCinis sxeul akebi
- \\ meisneris sxeul akebi
- \\ merkel is sxeul akebi
- \\ krauzes kol bebi

\\ \\ qvemoT CamoTvl il i Sreebidan romel i qmnis epidermisis zeda zedapirs?

- \\ bazal uri
- \\ wvetiani
- \\ rqovana
- \\ prial a

\\ \\ qvemoT CamoTvl il i Sreebidan romel i exeba uSual od dermas?

- \\ rqovana
- \\ bazal uri
- \\ marcvl ovani
- \\ prial a

\\ \\ kanis romel Sreebs Soris mdebareobs bazal uri membrana?

- \\ bazal ur da wvetian
- \\ wvetian da rqovana
- \\ bazal ur da dermas
- \\ marcvl ovan da prial a

\\ \\ qvemoT CamoTvl il i struqturebidan romel i qmnis keratinocitebis marcvl ebs?

- \\ ribosomebi
- \\ mitoqondriebi
- \\ lipofuscini
- \\ keratohial ini

\\ \\ qvemoT CamoTvl il i uj redebidan romel ia yvel aze didi raodenobiT dermaSi?

\\ \\ keratinocitebi

\\ \\ mel anocitebi

\\ \\ I angerhansis

\\ \\ fibrobl astebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs pigmentis warmoqmnaSi?

\\ \\ keratinocitebi

\\ \\ mel anocitebi

\\ \\ merkel is

\\ \\ I angerhansis

\\ \\ CamoTvl il Tagan, romel i uj redi asrul ebs meqanoreceptoris rol s kanSi?

\\ \\ keratinocitebi

\\ \\ mel anocitebi

\\ \\ merkel is

\\ \\ I angerhansis

\\ \\ qvemoT CamoTvl il i uj redebidan romel s aqvs kavSiri aferentul nervul dabol oebebTan?

\\ \\ keratinocitebi

\\ \\ fibrobl astebi

\\ \\ merkel is

\\ \\ I angerhansis

\\ \\ qvemoT CamoTvl il i uj redebidan romel i xvdeba eqtodermaSi nervul i qedi dan?

\\ \\ keratinocitebi

\\ \\ I angerhansis

\\ \\ mel anocitebi

\\ \\ merkel is

\\ \\ kanis danamatebidan sad gv xvdeba mra val Sriani kuburi epiTel iumi?

\\ \\ qonis j irkvl ebis sekreciul i nawil i

\\ \\ Tmis fol ikul i

\\ \\ saofl e j irkvl ebis sekreciul i nawil i

\\ \\ saofl e j irkvl is sadinari

\\ \\ qvemoT CamoTvl il i Sreebidan roml is sisqe gasazRvravs 'Txel i- da 'sqel i- kanis arsebobas?

\\ \\ epi dermisi

\\ \\ dermis dvril ovani

\\ \\ dermis badebrivi

\\ \\ hipoderma

\\ \\ epi dermisis qvemoT CamoTvl il i Sreebidan romel i gamoirCeva yvel aze maRal i mitozuri aqtivobiT?

\\ \\ bazal uri

\\ \\ wvetiani

\\ \\ marcvl ovani

\\ \\ prial a

\\ \\ epi dermisis qvemoT CamoTvl il i uj rdebidan romel s aqvs monocituri warmoSoba?

- \ I angerhansis
- \ keratinocitebi
- \ melanocitebi
- \ merkel is

\ \ kanis qvemoT CamoTvl il i Sreebidan romel Sia yvel aze didi raodenobiT cximovani uj redebi?

- \ epidermisi
- \ dvril ovani
- \ badebrivi
- \ hipoderma

\ \ ra cvl il ebas ganicdis dermis siRrmis mimarTul ebiT el astikuri boWkoebis raodenoba?

- \ kl ebul obs
- \ matul obs
- \ ar icvl eba
- \ qreba

\ \ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs kani?

- \ damcvel obiTi
- \ receptorul i
- \ Termorgul acia
- \ sayrdeni

\ \ qvemoT CamoTvl il i qsovil ebidan romel i qmnis epidermiss?

- \ epiTel uri
- \ SemaerTebel i
- \ kunTovani
- \ nervul i

\ \ kanis qvemoT CamoTvl il i nawil ebidan roml is sisqe gansazRvravs sqel i da Txel i kanis arsebobas?

- \ epidermisi
- \ dvril ovani Sre
- \ badebrivi Sre
- \ cximovani uj redisi

\ \ qvemoT CamoTvl il i Sreebidan romel i ar ekuTvnis dermas?

- \ epidermisi
- \ dvril ovani Sre
- \ badebrivi Sre
- \ cximovani uj redisi

\ \ qvemoT CamoTvl il i qsovil ebidan romel i qmnis dermis dvril ovan Sres?

- \ epiTel uri
- \ faSari SemaerTebel i
- \ mkvrivi uformo SemaerTebel i
- \ cximovani

\ \ qvemoT CamoTvl il i qsovil ebidan romel i qmnis dermis badebriv Sres?

- \ epiTel uri
- \ faSari SemaerTebel i
- \ mkvrivi uformo SemaerTebel i
- \ cximovani

\\ \\ kanis qvemoT CamoTvl il i ubnebidan romel i iqmneba adipocitebiT?
\\ epiTel uri
\\ faSari SemaerTebel i
\\ mkvrivi uformo SemaerTebel i
\\ cximovani

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar mdebareobs epidermisSi?
\\ keratinocitebi
\\ mel anocitebi
\\ I angerhansis uj redebi
\\ fibroblastebi

\\ \\ kanis qvemoT CamoTvl il i uj redebidan romel ia yvel aze mraval ricxovani?
\\ keratinocitebi
\\ mel anocitebi
\\ merkel is
\\ I angerhansis

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs keratinocitebi?
\\ keratinis sinTezi
\\ pigmentis sinTezi
\\ fagocitozi
\\ receptoruli

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs I angerhansis
uj redebi?
\\ imunur reaqciebSi monawileoba
\\ sayrdeni
\\ pigmentis sinTezi
\\ receptoruli

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs mel anocitebi?
\\ imunur reaqciebSi monawileoba
\\ sayrdeni
\\ pigmentis sinTezi
\\ receptoruli

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs merkel is uj redebi?
\\ sayrdeni
\\ meqanoreceptoruli
\\ damcvel obiti
\\ sekreciuli

\\ \\ SemaerTebel i qsovil is romel i Sre mdebareobs uSual od epidermisis qveS?
\\ sakuTari firfita
\\ dvrilovani
\\ badebrivi
\\ hipoderma

\\ \\ kanis qvemoT CamoTvl il i Sreebidan romel i iqmneba faSari SemaerTebel i
qsovil iT?
\\ epidermisi
\\ dvrilovani
\\ badebrivi
\\ hipoderma

\\\\ kanis qvemoT CamoTvl il i Sreebidan romel i iqmneba mkvrivi boWkovani SemaerTebel i qsovil iT?

- \\ epidermisi
- \\ dvril ovani
- \\ badebrivi
- \\ hipoderma

\\\\ qvemoT CamoTvl il i receptorebidan romel i ekuTvnis qemoreceptorebs?

- \\ myesis gol j is organo
- \\ kunTis TiTistara
- \\ gemovnebis
- \\ mxedvel obis

\\\\ qvemoT CamoTvl il i nervul i dabol oebebidan romel s ekuTvnis ynosvis organo?

- \\ fotoreceptori
- \\ qemoreceptori
- \\ meqanoreceptori
- \\ proprioceptori

\\\\ qvemoT CamoTvl il i gaRizianebebidan romel s ar aRiqvams Tavisufal i nervul i dabol oebebi?

- \\ siTbo
- \\ sicive
- \\ tkivil i
- \\ gemovneba

\\\\ qvemoT CamoTvl il i receptorebidan romel i ekuTvnis proprioceptorebs?

- \\ paCinis sxeul aki
- \\ kunTis TiTistara
- \\ mxedvel obis
- \\ ynosvis

\\\\ enis qvemoT CamoTvl il i dvril ebidan sad mdebareobs gemovnebis receptorebi?

- \\ Zafisebri da foTI iseбри
- \\ sokosebri da SemozRudul i
- \\ Zafisebri da SemozRudul i
- \\ foTI iseбри da sokosebri

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs smeni sa da wonasworobis organo?

- \\ yuris niJara
- \\ gareTa yuri
- \\ Sua yuri
- \\ Signi Ta yuri

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs kortis organo?

- \\ tiki
- \\ parkuWi
- \\ naxevarrkal ovani arxebi
- \\ I okokinas arxi

\\\\ Tval is qvemoT CamoTvl il i garsebidan romel Si mdebareobs fotoreceptorebi?

- \\ rqovana

- \\ badura
- \\\ skl era
- \\\ sisxl ZarRvovani

\\\ baduras qvemoT CamoTvl il i Sreebidan romel Si mdebareobs fotoreceptorebi?

- \\ Cxirebis da kol bebis
- \\\ gangl iuri
- \\\ gareTa marcvl ovani
- \\\ SigniTa marcvl ovani

\\\ baduras qvemoT CamoTvl il i Sreebidan romel Si mdebareobs neironebi, roml ebic mxedvel obis nervs qmnis?

- \\\ gareTa marcvl ovani
- \\\ SigniTa marcvl ovani
- \\\ gareTa badebrivi
- \\ gangl iuri

\\\ baduras qvemoT CamoTvl il i Sreebidan romel Si ukavSirdeba fotoreceptorebis aqsonebi Suamdebare Sris bipol arul i neironebis dendritebs?

- \\\ gareTa marcvl ovani
- \\\ SigniTa marcvl ovani
- \\ gareTa badebrivi
- \\\ SigniTa badebrivi

\\\ baduras qvemoT CamoTvl il i Sreebidan romel Si ukavSirdeba Suamdebare Sris bipol arul i neironebis aqsonebi gangl iuri neironebis dendritebs?

- \\\ gareTa marcvl ovani
- \\\ SigniTa marcvl ovani
- \\\ gareTa badebrivi
- \\ SigniTa badebrivi

\\\ baduras qvemoT CamoTvl il i uj redebidan romel i qmnis SigniTa marcvl ovan Sres?

- \\\ fotoreceptorebi
- \\ bipol arul i neironebi
- \\\ gangl iuri neironebi
- \\\ amakrinul i uj redebi