

Biologiya



9
sinf

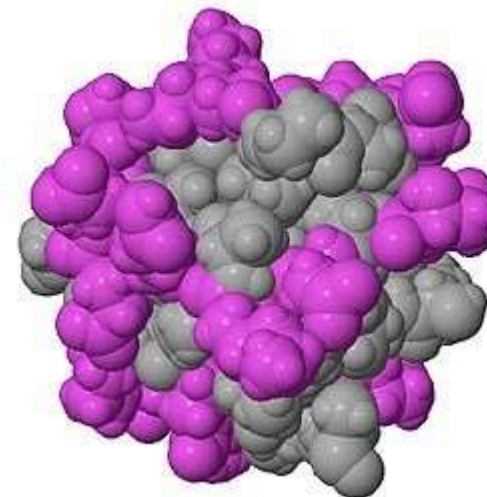
26 - dars

Mavzu: Oqsillarning xossalari. Oddiy va murakkab oqsillar.



Namangan viloyati xalq ta'limi xodimlarini qayta tayyorlash va ularning malakasini oshirish hududiy markazi aniq va tabiiy fanlar metodikasi kafedrasida katta o'qituvchisi

Niyozov Qahramon Adashaliyevich



DARSNING MAQDSADI



Tushunish va izohlay olish

O‘TGAN DARS MAVZUSINI MUSTAHKAMLASH

Oqsilning birlamchi tuzilishi

peptid bog‘lar

insulin



Oqsilning ikkilamchi tuzilishi

vodorod bog‘lar

keratin, kollagen



Oqsilning uchlamchi tuzilishi

vodorod, ionli, disulfid, gidrofob bog‘lar

mioglobin



Oqsilning to‘rtlamchi tuzilishi

vodorod, ionli, disulfid, gidrofob bog‘lar

gemoglobin

Yangi mavzu rejasi:

1

Oqsillarning xossalari

2

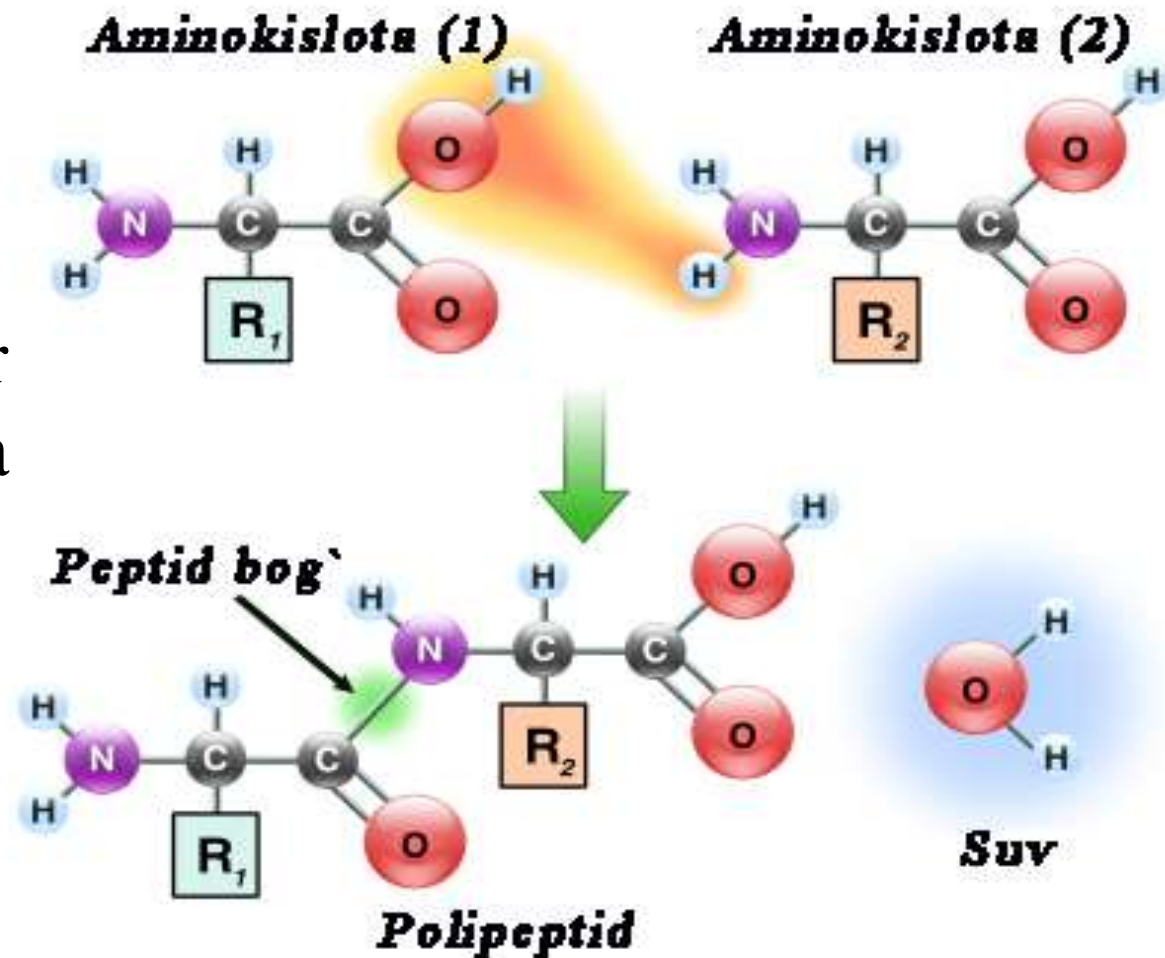
Oddiy oqsillar

3

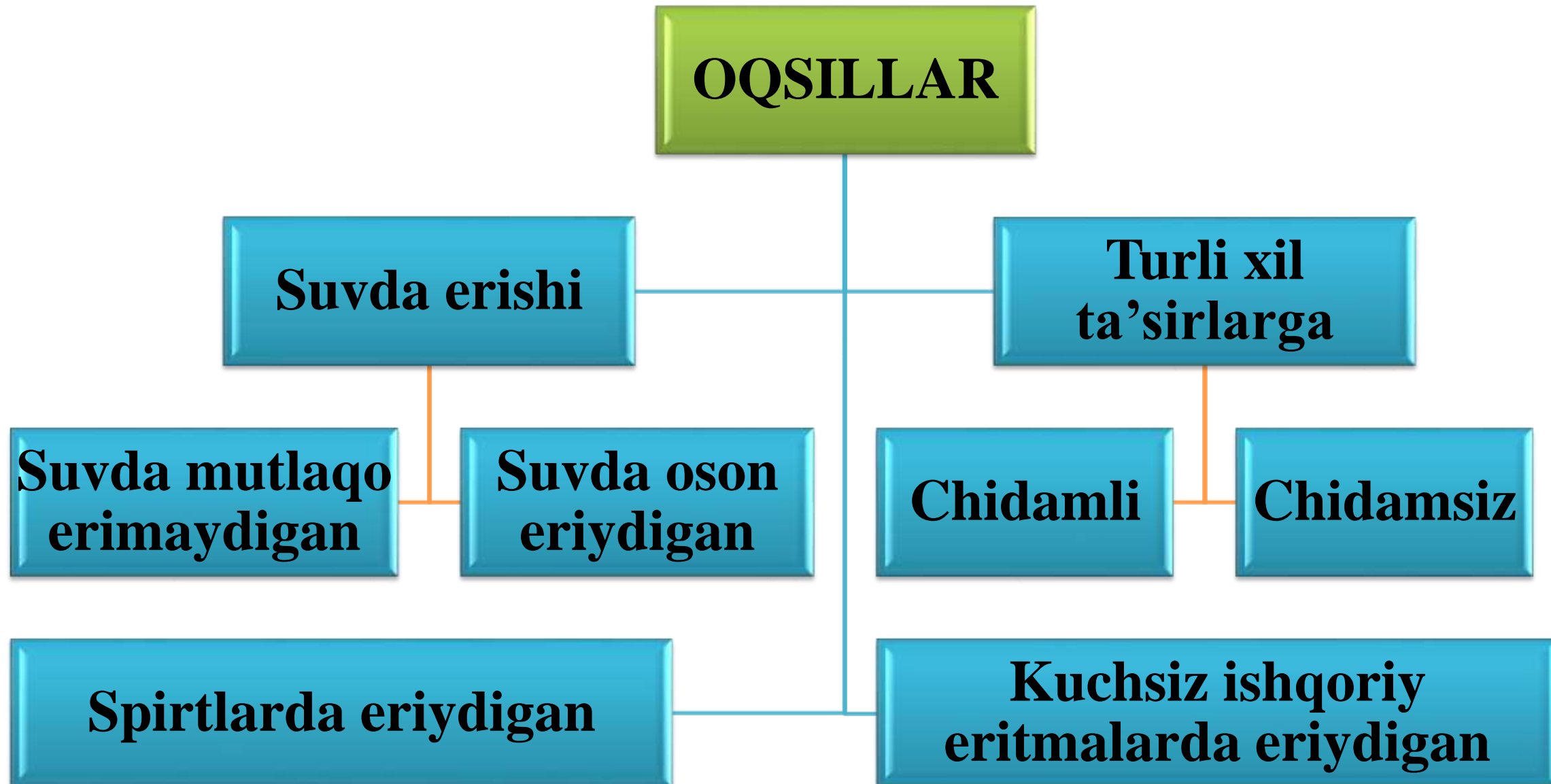
Murakkab oqsillar

OQSILLARNING XOSSALARI

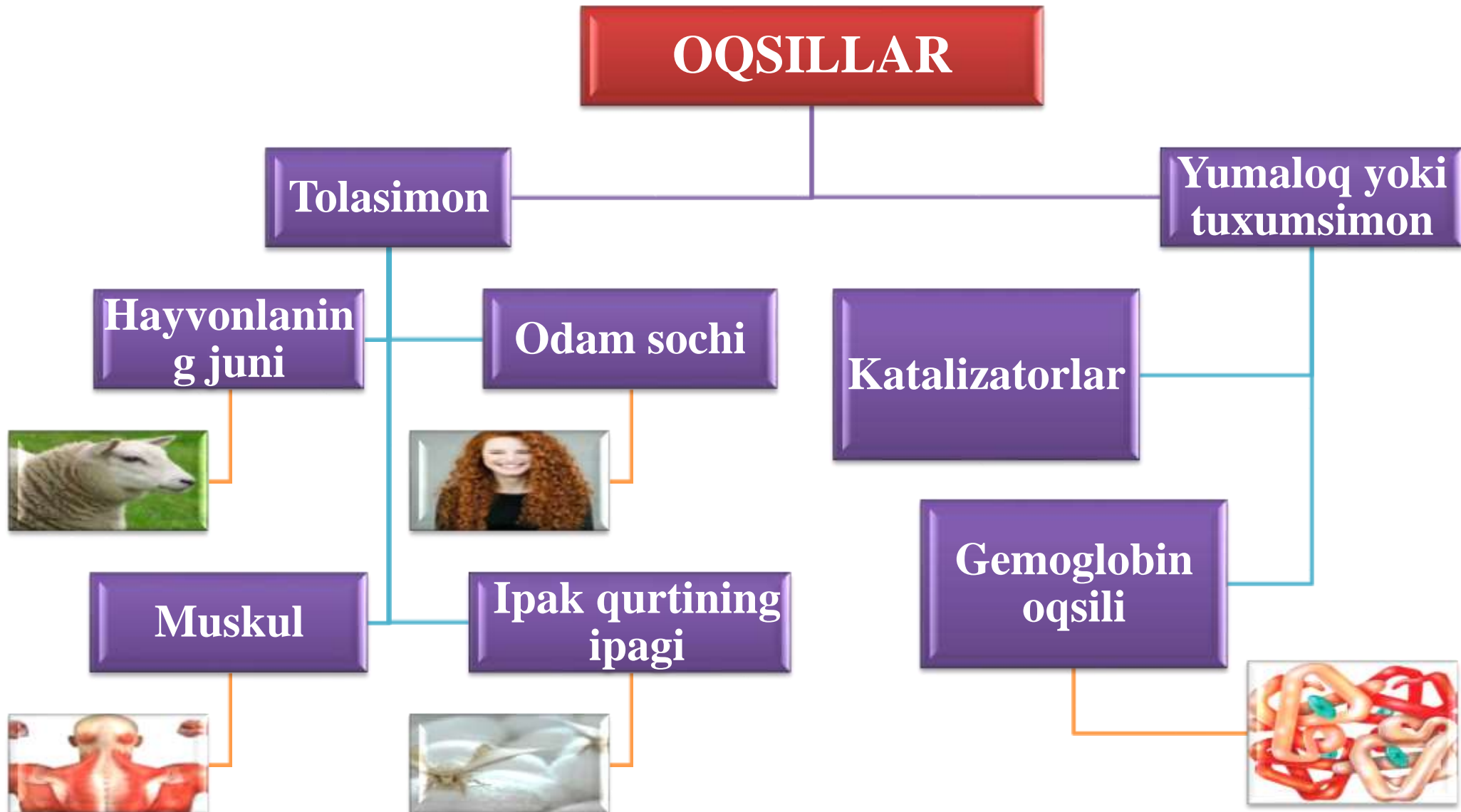
- ✓ Aminokislotalarning oʻrtacha molekular ogʻirligi taxminan 138 D ga teng.
- ✓ Oqsil tarkibida ularning molekular ogʻirligini 120 D deb qabul qilinsa boʻladi.
- ✓ Oʻrtacha 300 ta aminokislotadan iborat oqsil molekulasining molekular ogʻirligi $300 \times 120 = 36000$ ga teng boʻladi.



OQSILLARNING XOSSALARI

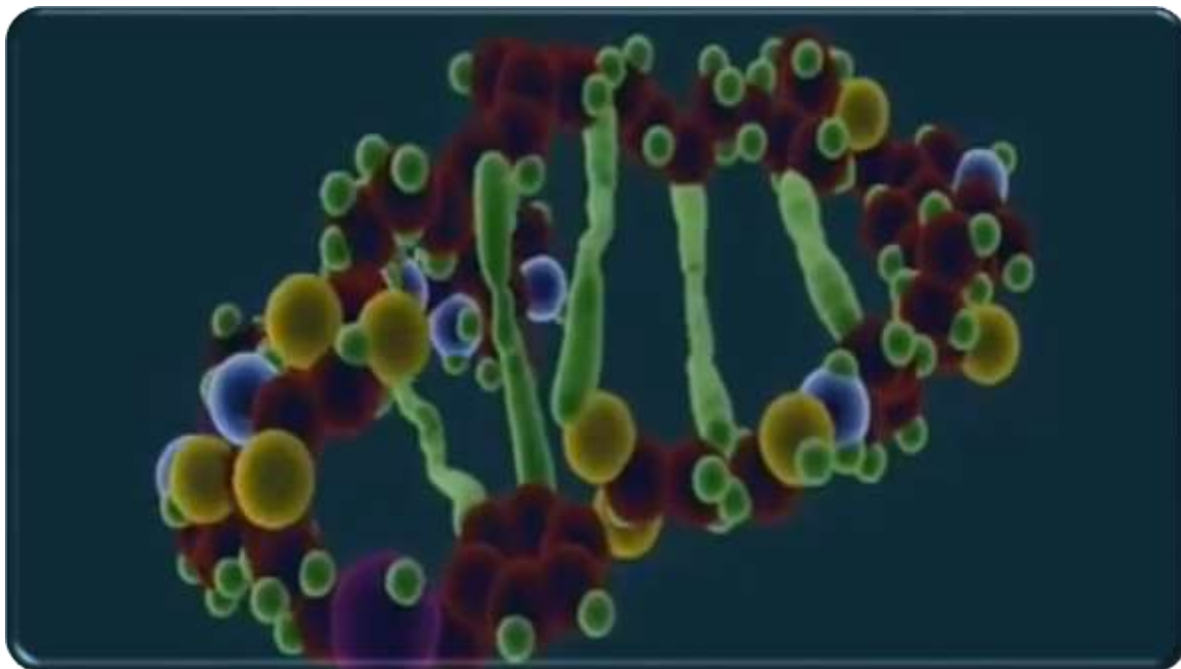


TIRIK ORGANIZMLAR TARKIBIDA UCHRAYDIGAN OQSILLAR



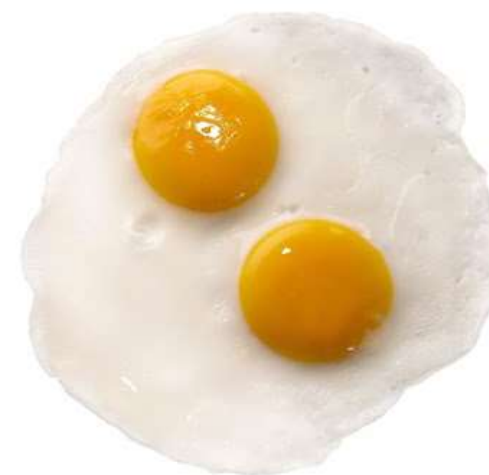
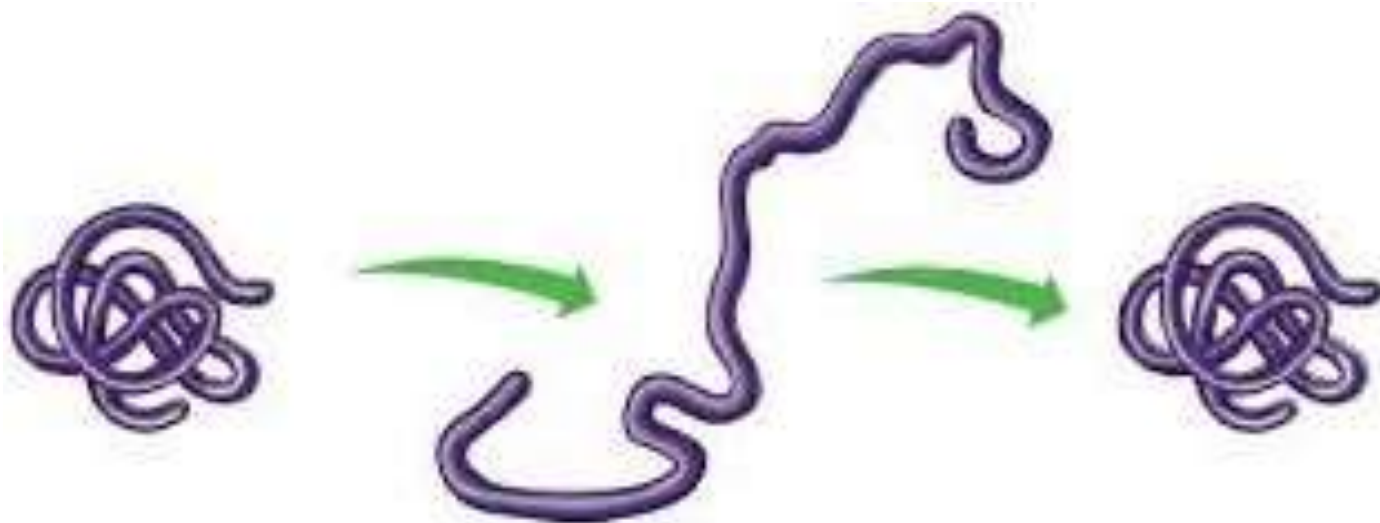
DENATURATSIYA

Oqsil molekulasi suvda mayda zarrachalarga bo‘linib, kolloid eritma hosil qiladi. Uning tabiiy holati turli tuzlar eritmasi ta‘sirida o‘zgaradi. Oqsil holatining bunday o‘zgarishiga *denaturatsiya* deyiladi.



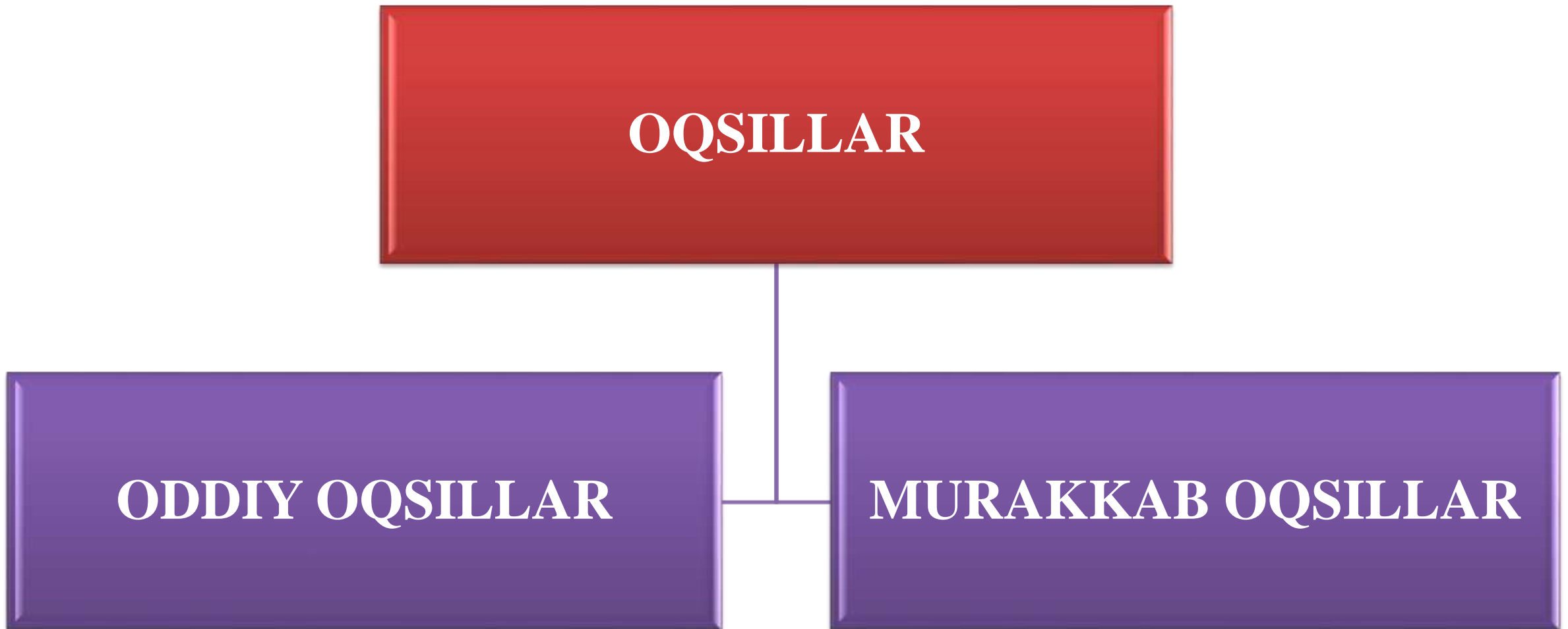
RENATURATSIYA

Agar ta'sir etuvchi sharoit chetlatilsa va oqsil uchun qulay sharoit yaratilsa, denaturatsiyaga uchragan oqsil tabiiy nativ holatini tiklashi mumkin. Bu hodisa *renaturatsiya* (nativ holatga qaytishi) deb ataladi.

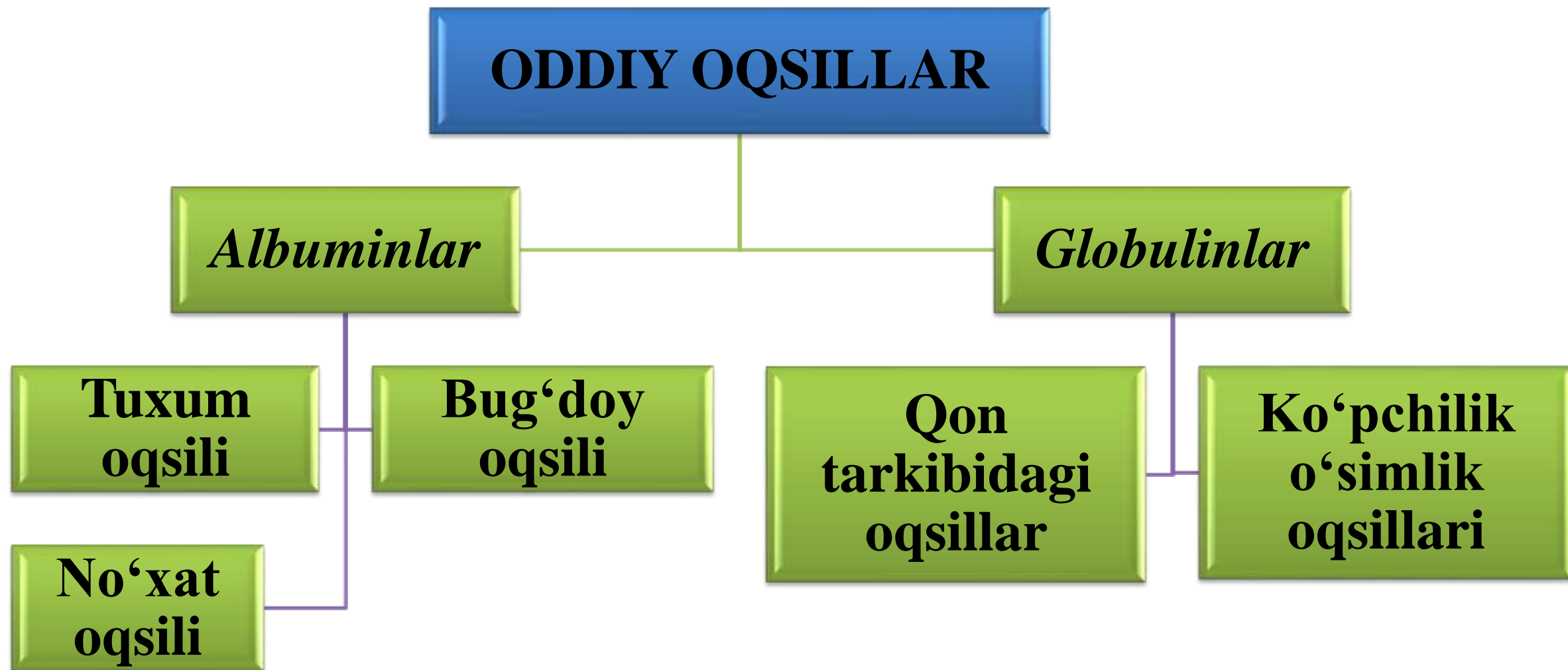


Denaturatsiyaga uchragan
tuxum oqsili
renaturatsiyalanmaydi.

OQSILLAR GURUHLARI



OQSILLAR GURUHLARI



OQSILLAR GURUHLARI

MURAKKAB OQSILLAR

Nukleoprotein

Xromoprotein

Lipoprotein

MUSTAHKAMLASH UCHUN SAVOLLAR

1. Oqsillarning muhim xossalari nima bilan bog'liq?
2. Oqsillar qanday shakllarda uchraydi?
3. Oqsil denaturatsiyasi deb nimaga aytiladi?

UYGA VAZIFA

1. Darslikning 26-§, 68-70- sahifalarini o‘qib chiqing va savollarga javob bering.

2. Jadvalni to‘ldiring

Oqsillar guruhlari	Tarkibi	Uchrashi
Xromoprotein		
Lipoprotein		
Glikoprotein		

3. Darslikning 70-sahifasidagi masalani yechimini toping.

E'tiboringiz uchun



rahmat



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