

Radyasyonun Biyolojik Etkileri ve Hücredeki Etki Mekanizmaları

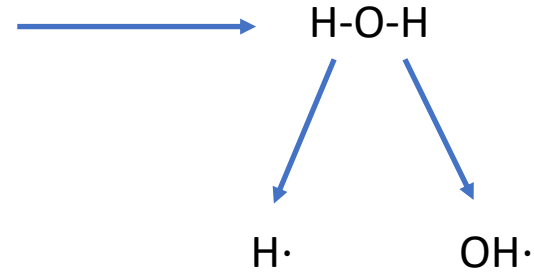
Doç. Dr. H. Burak Kandilci

Biyofizik ABD

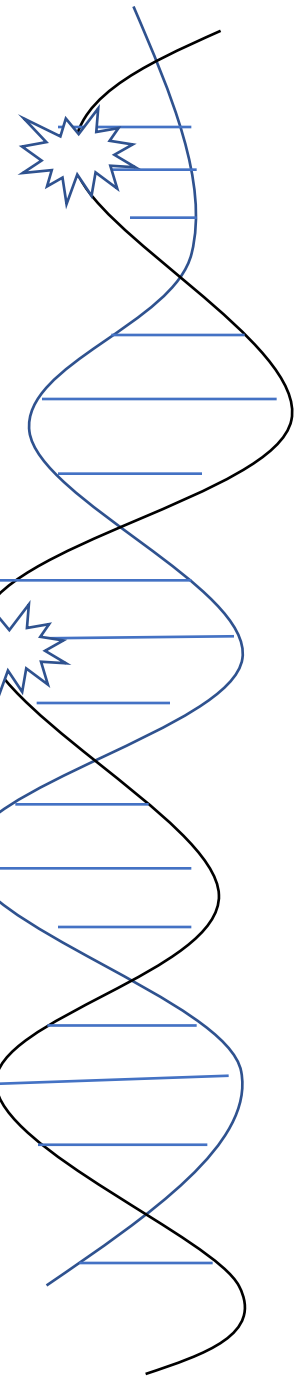
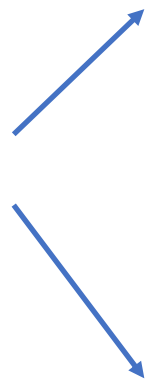
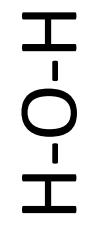
Hücrede iyonize edici radyasyon hasar mekanizmaları

- Doğrudan etkiler
 - DNA hasarı
- Dolaylı etkiler
 - Hücre içindeki su molekülünün parçalanması ve reaktif oksijen türevleri oluşumu

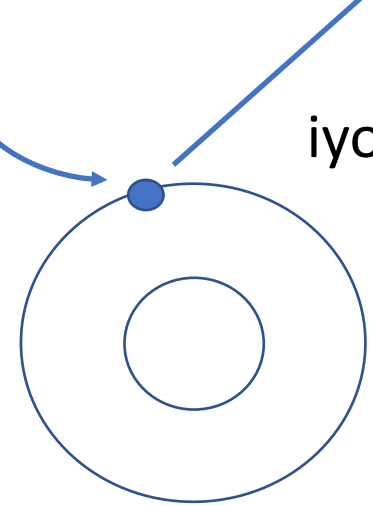
İyonize edici radyasyon



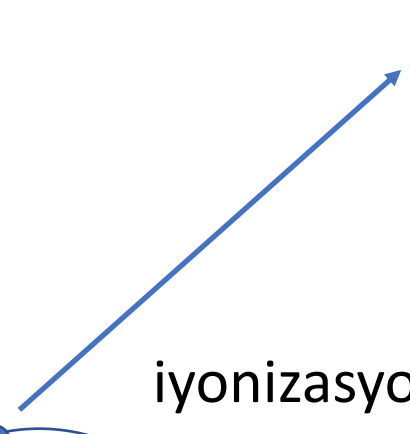
radasyon



radasyon

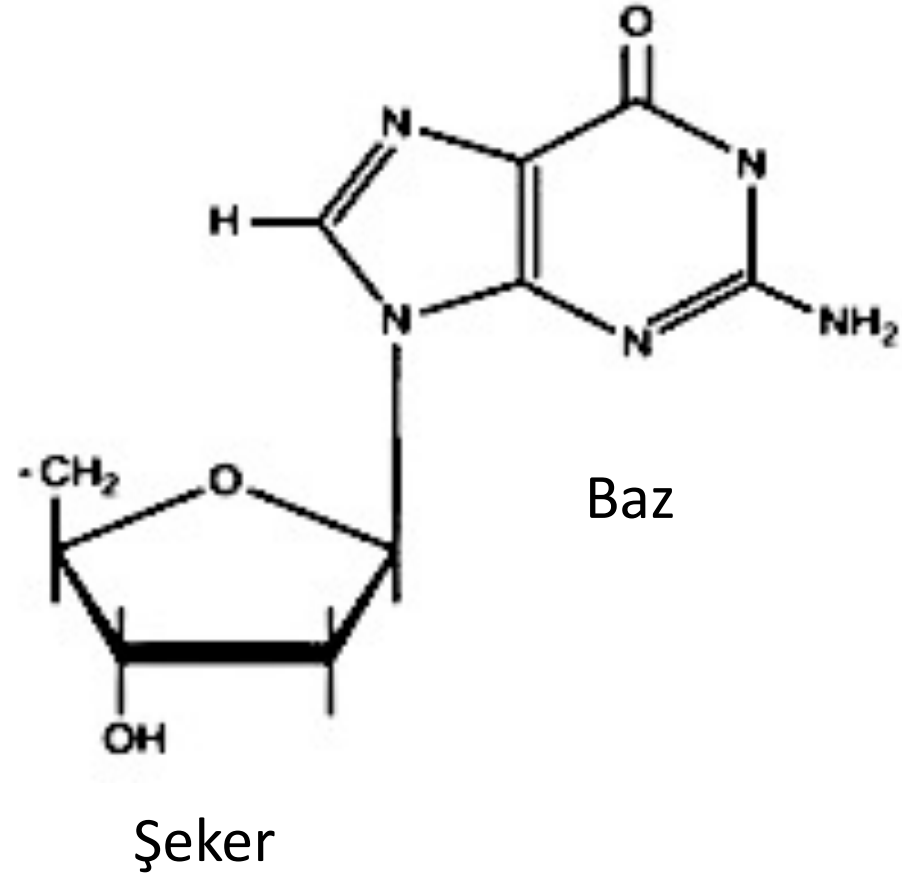


iyonizasyon

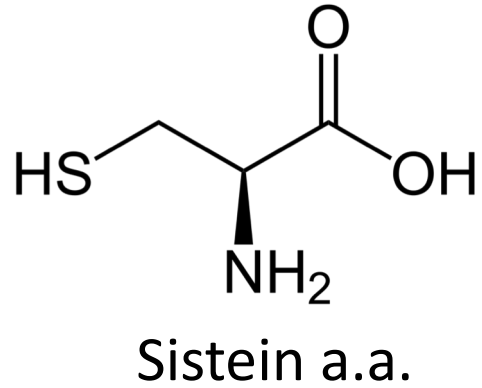


Hücrede ROS indirekt hasar oluşum mekanizmaları

Nükleik asit modifikasyonu



Protein modifikasyonu



S-S (disülfid köprüsü)

-SOH (sülfenik asit)
-SO₂H (sülfinik asit)
-SO₃H (sülfonik asit)

