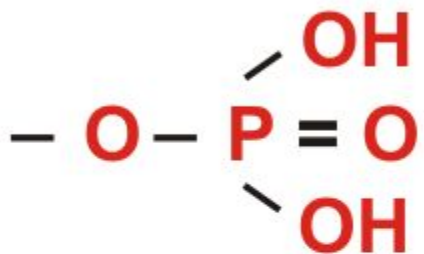
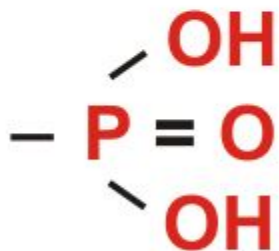




2004



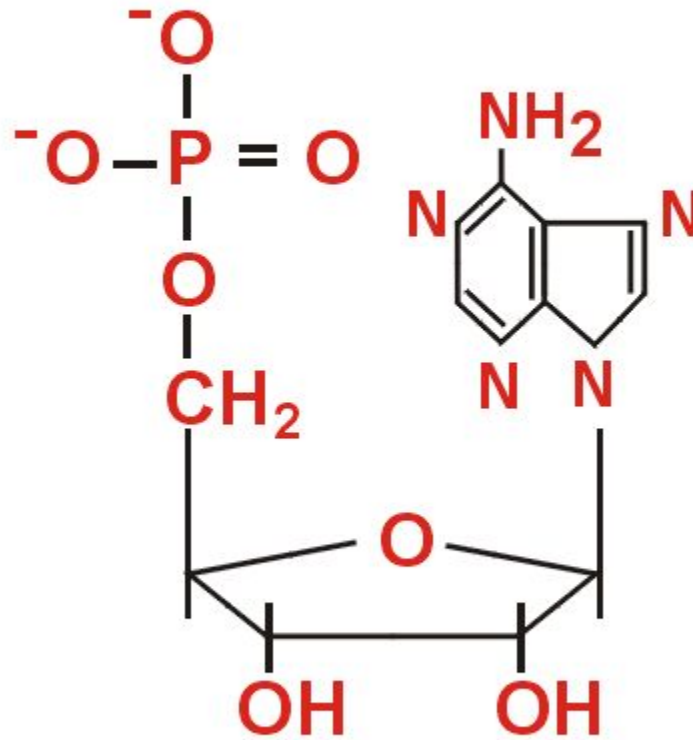
фосфатная группа

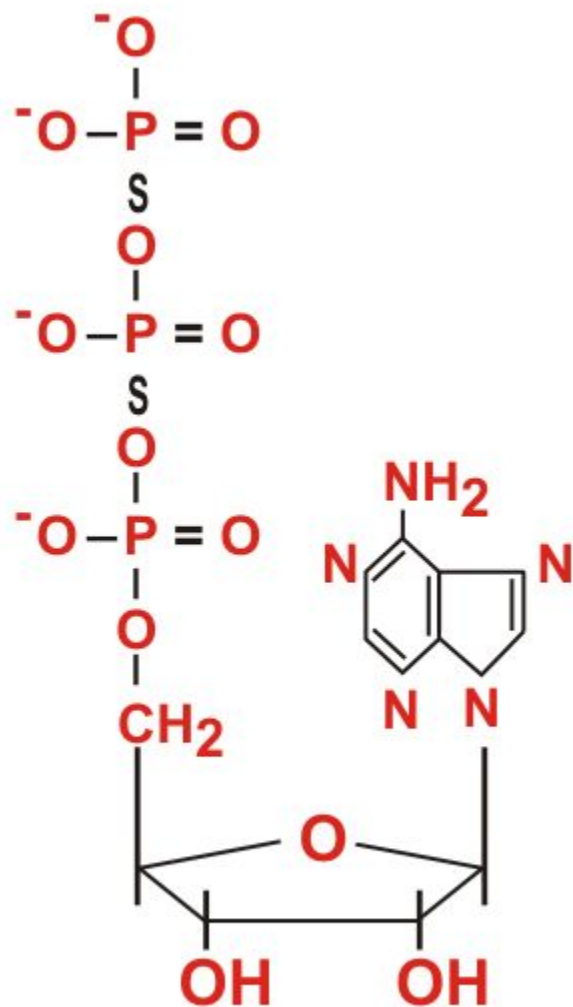


фосфорильная группа



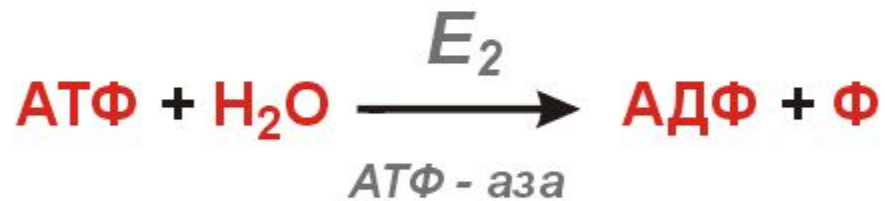
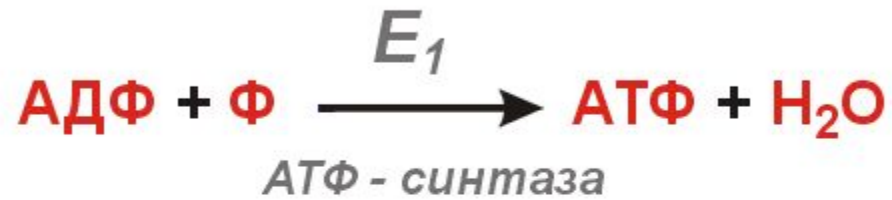
AMΦ





ATP⁴⁻
Mg ATP²⁻

(ADP³⁻
Mg ADP⁻)



$$\Phi_H = P_i$$



НАД и НАДФ

Окисленная форма

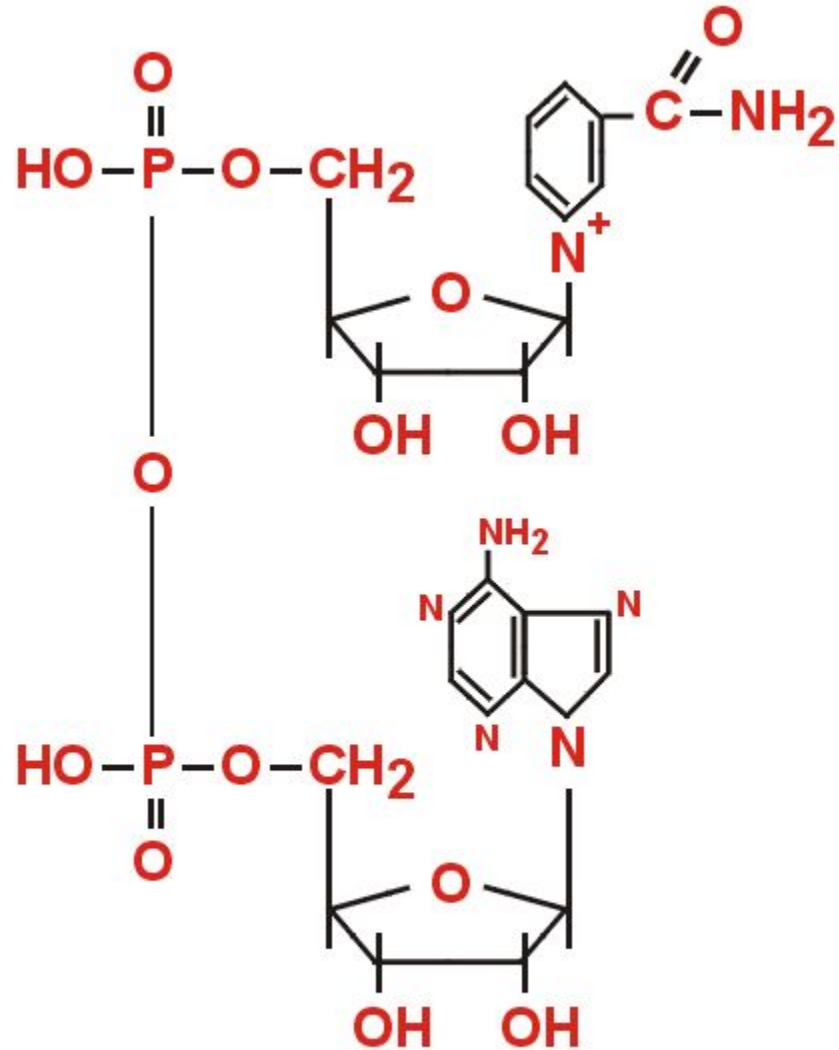


Восстановленная форма





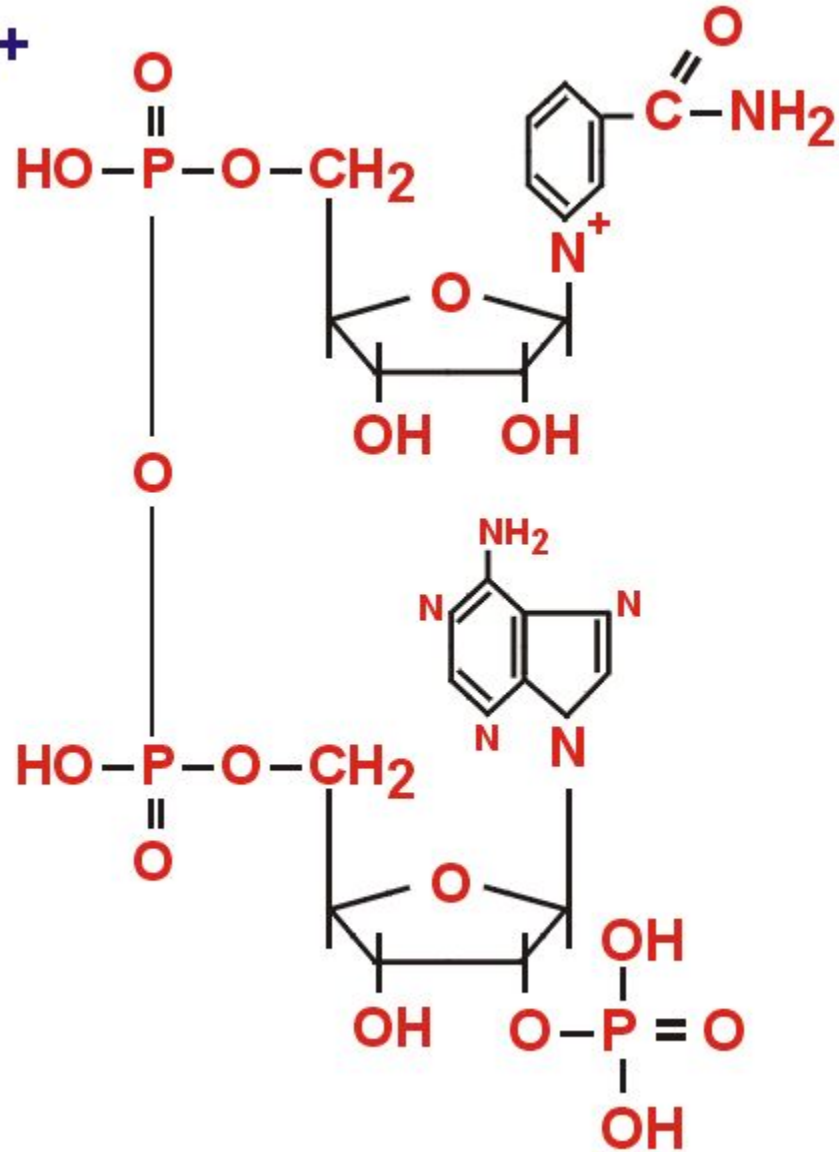
НАД⁺

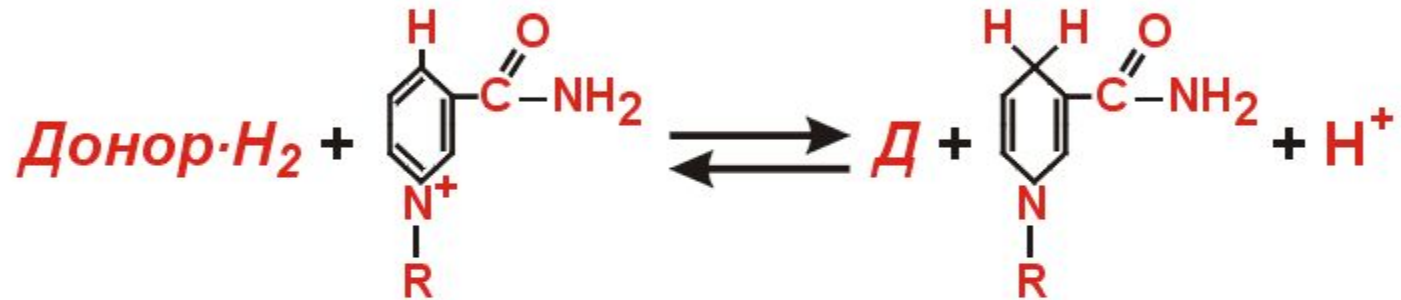


METABURG media



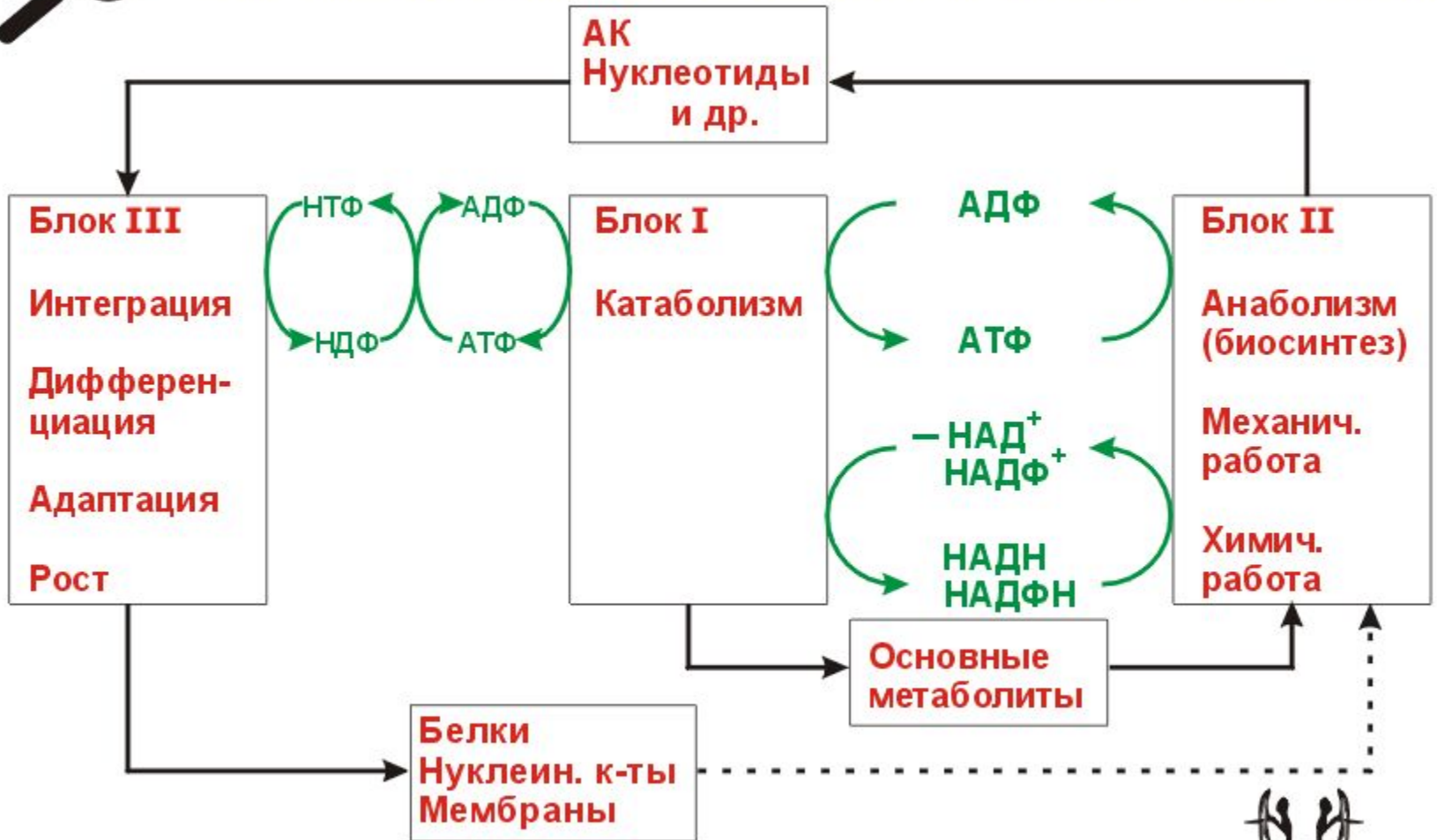
НАДФ⁺







Блок-схема функциональных элементов клеточного метаболизма





2004