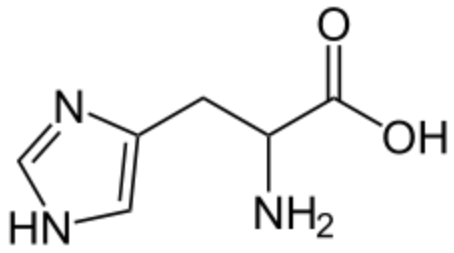
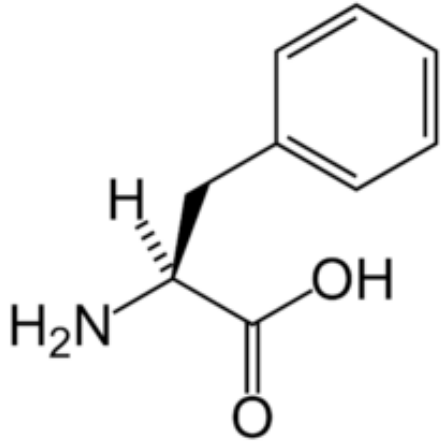
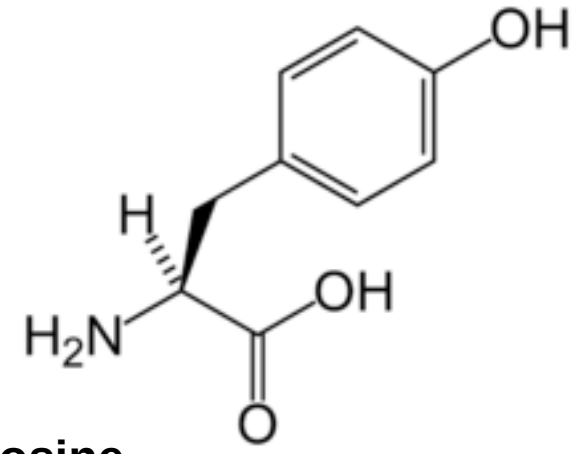
Aromatic amino acids



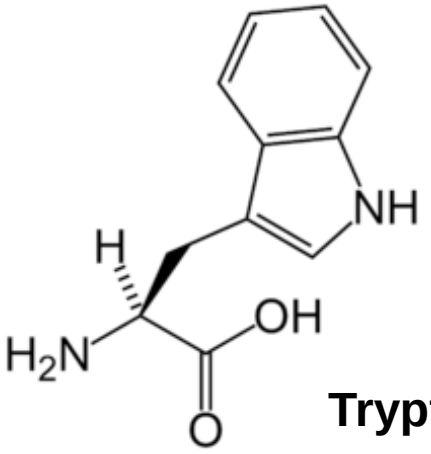
Histidine



Phenylalanine



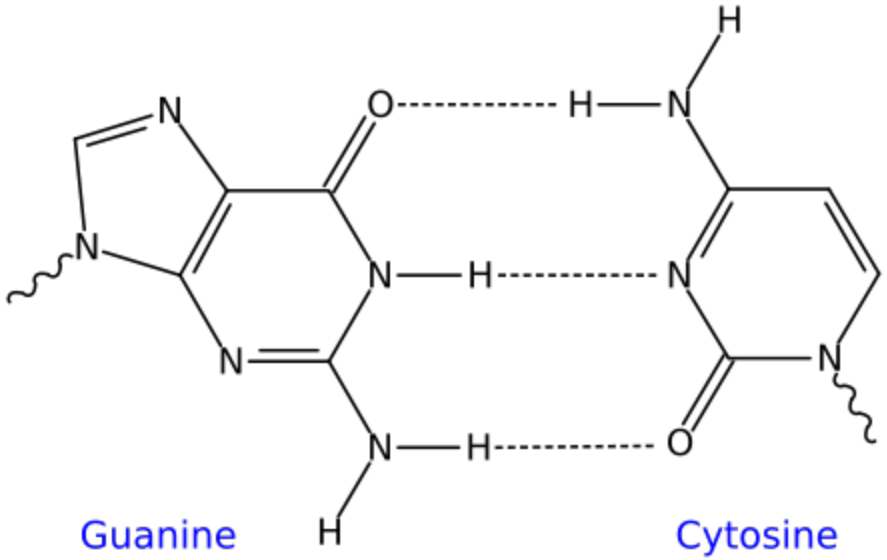
Tyrosine

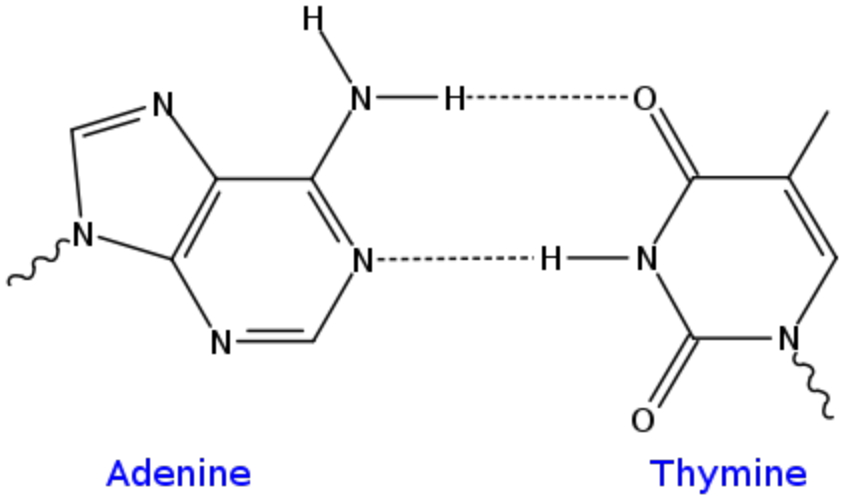


Tryptophan

http://en.wikipedia.org/wiki/Aromatic_amino_acids

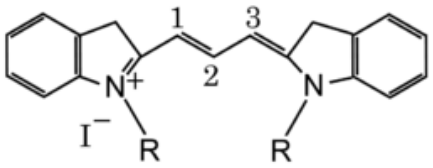
nucleobases



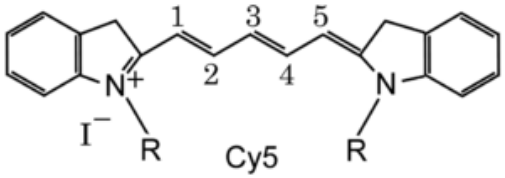


http://en.wikipedia.org/wiki/DNA

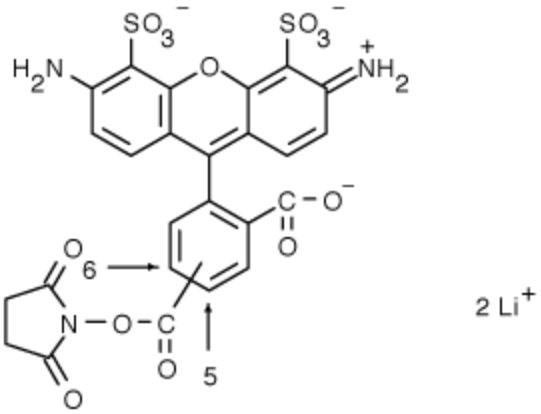
Fluorescent Dyes (a few examples)



Cy3



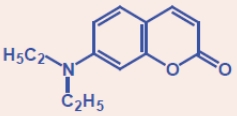
Cy5



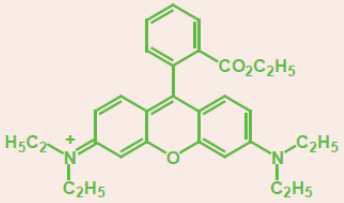
Alexa Fluor® 488 carboxylic acid, succinimidyl ester

Most ATTO-labels are derivatives of:

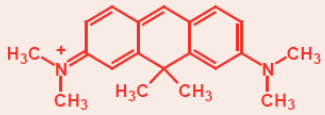
- **Coumarin**



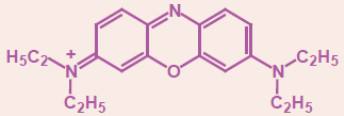
- **Rhodamine**



- **Carbopyronin**



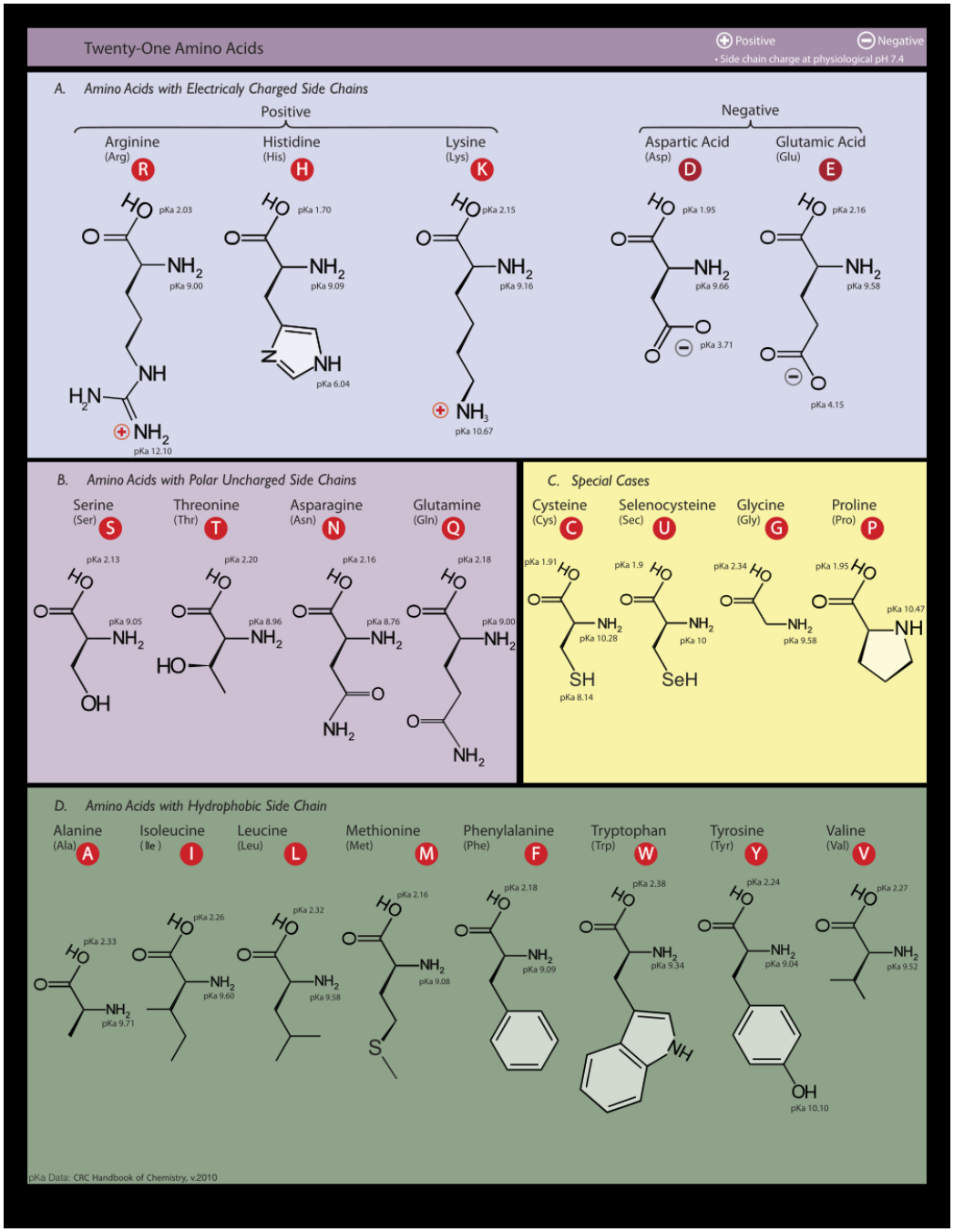
- **Oxazine**

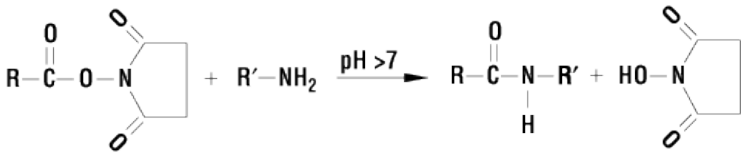


http://www.invitrogen.com/site/us/en/home/support/Product-Technical-Resources/Product-Structures.-20000.html

https://www.atto-tec.com/fileadmin/user_upload/Katalog_Flyer_Support/Catalogue_2009_2010.pdf

http://en.wikipedia.org/wiki/Cyanine





NHS ester reaction scheme for conjugation to a primary amine.

http://www.piercenet.com/browse.cfm?fldID=CE4D6C5C-5946-4814-9904-C46E01232683#nhsester

http://en.wikipedia.org/wiki/Amino_acid