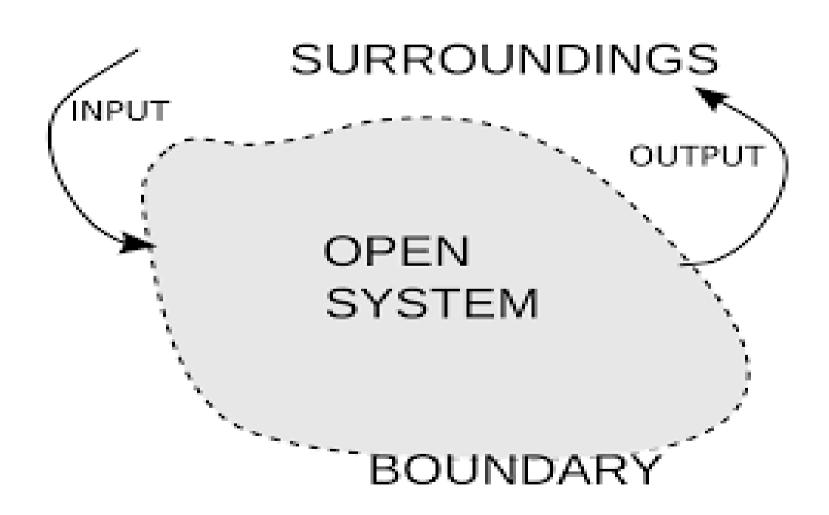
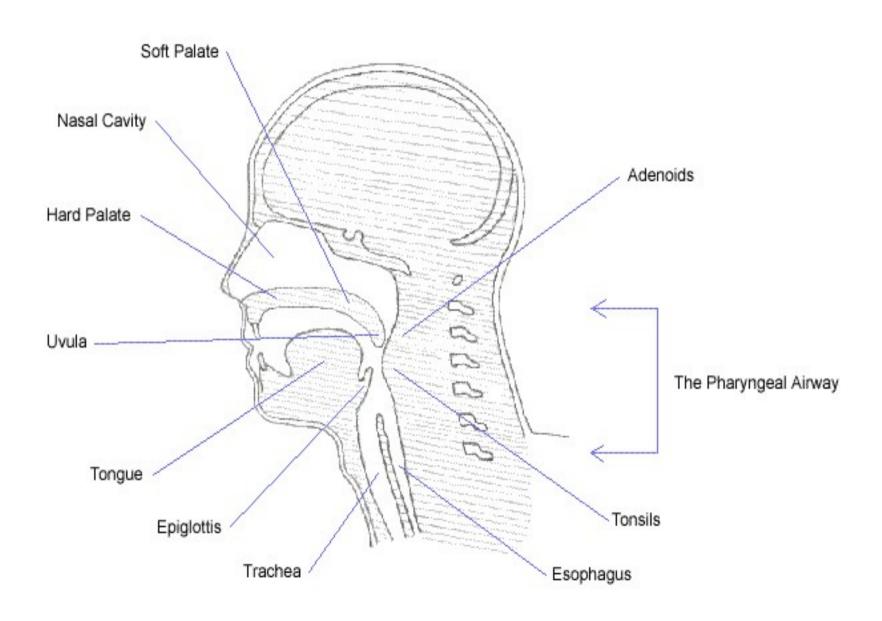
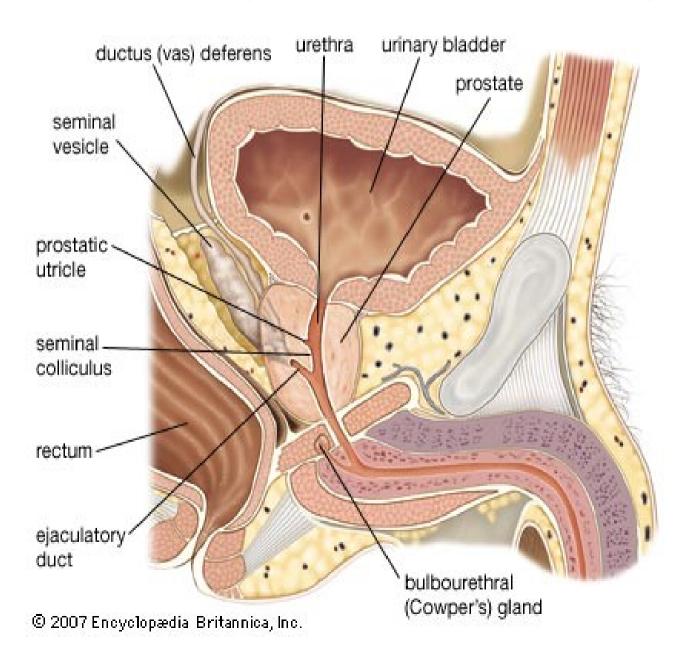
Lecture-3 Body as a system (Part-2)

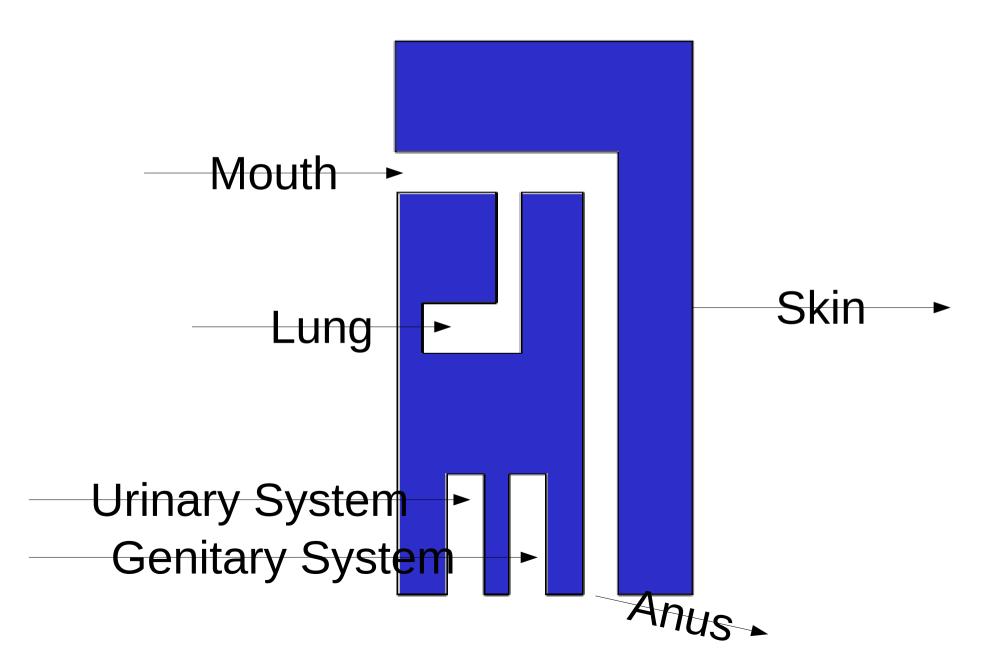
Dr S M Patel

System has boundary

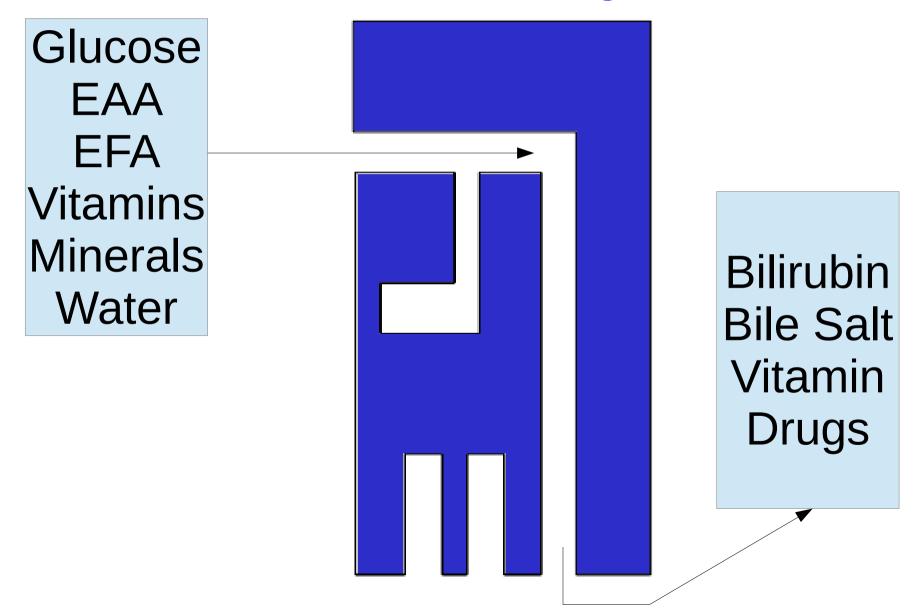




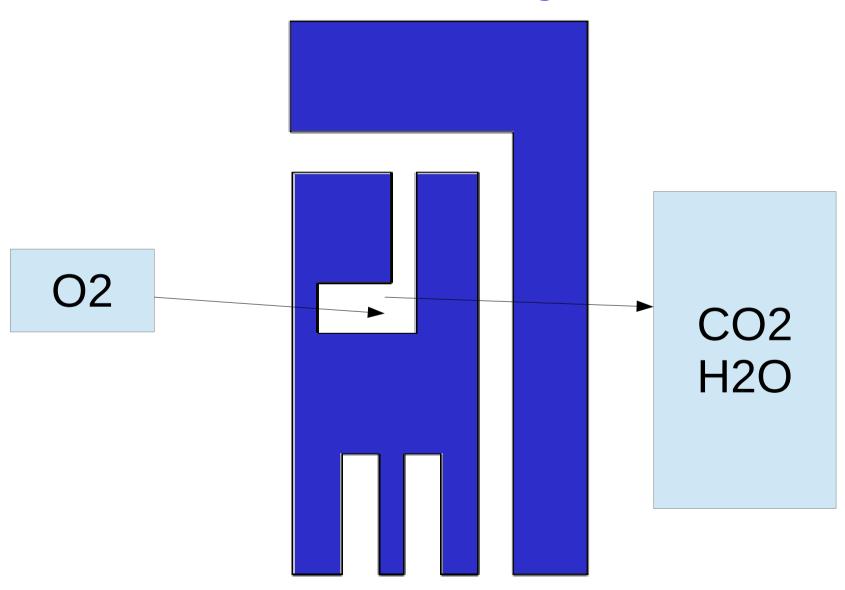




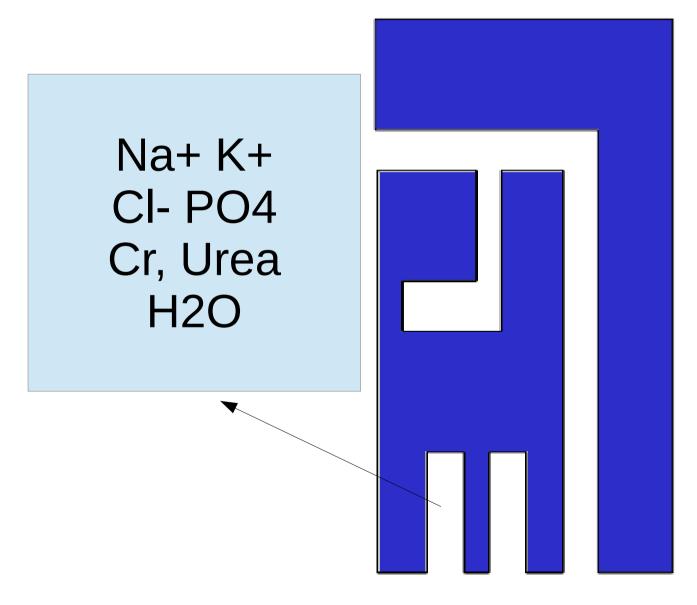
Molecules crosses body boundary



Molecules crosses body boundary



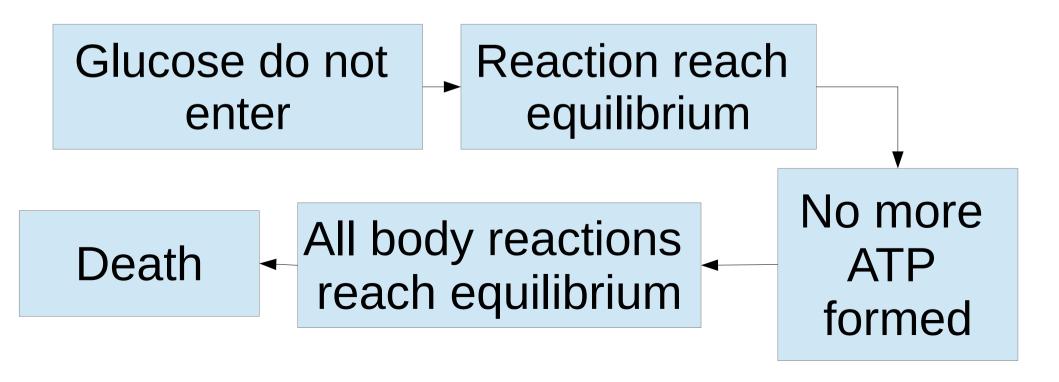
Molecules crosses body boundary



If molecules can not cross body reactions reaches equilibrium

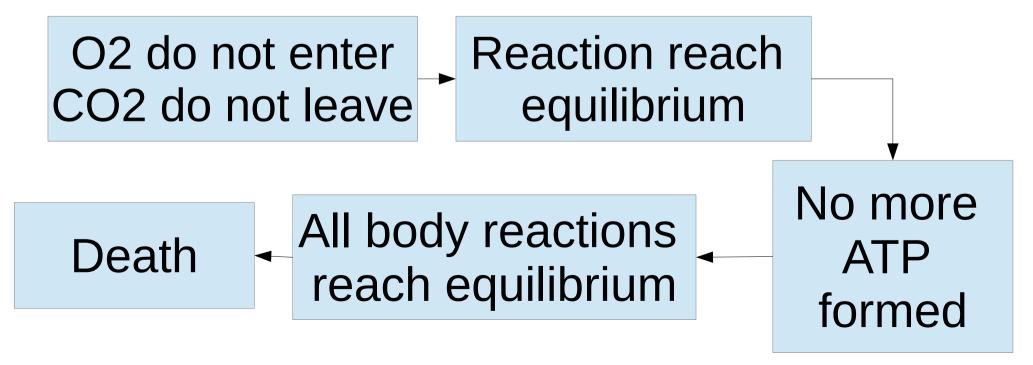
Malnutrition / Esophageal Cancer

- Glucose + O2 → CO2 + H2O
- Continuous Glucose supply moves reaction to right



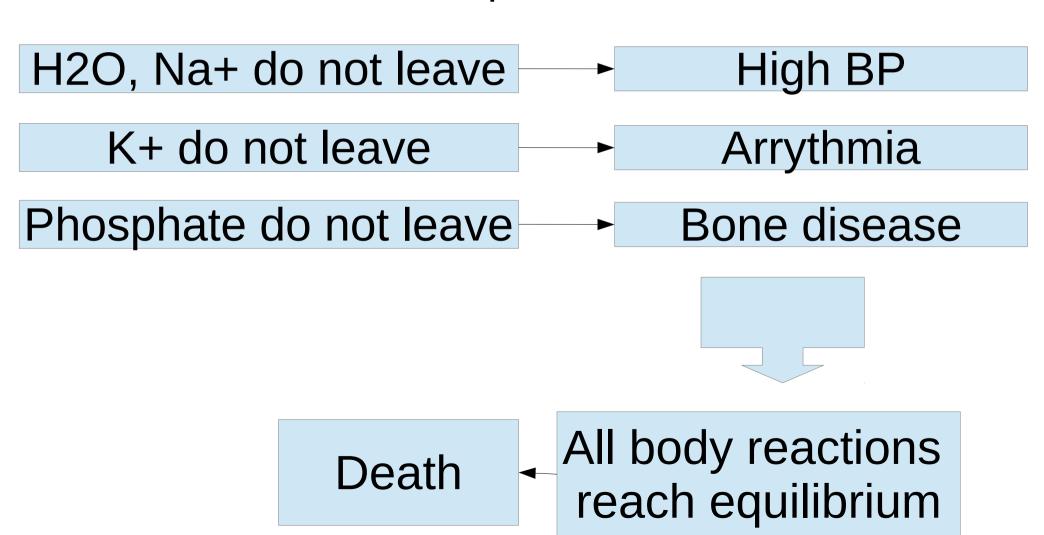
Severe Asthma / Pneumonia

- Glucose + O2 → CO2 + H2O
- Continuous O2 supply moves reaction to right
- Continuous CO2 removal moves reaction to right



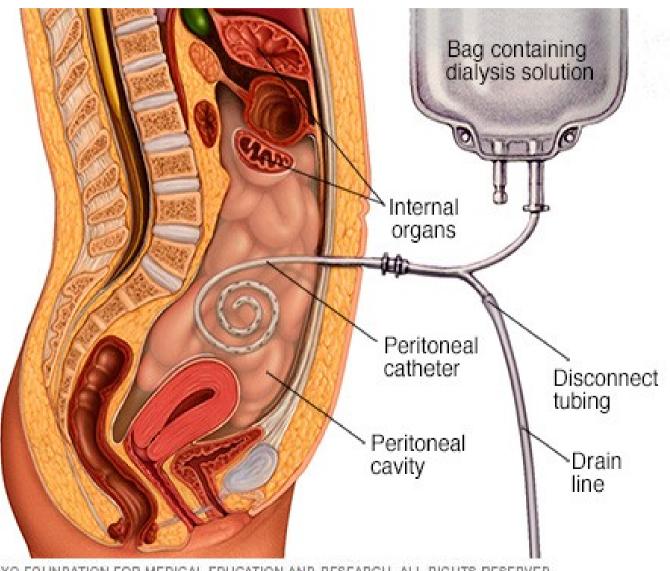
Chronic Kidney Disease

• H2O, Na+, K+, Phosphate, Urea, Cr do not exit



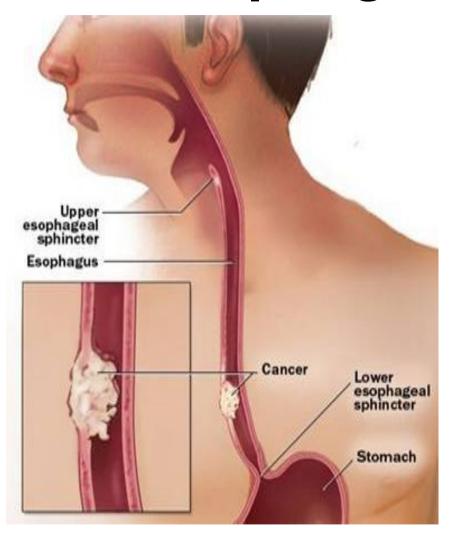
Treatment may help molecules cross the boundary

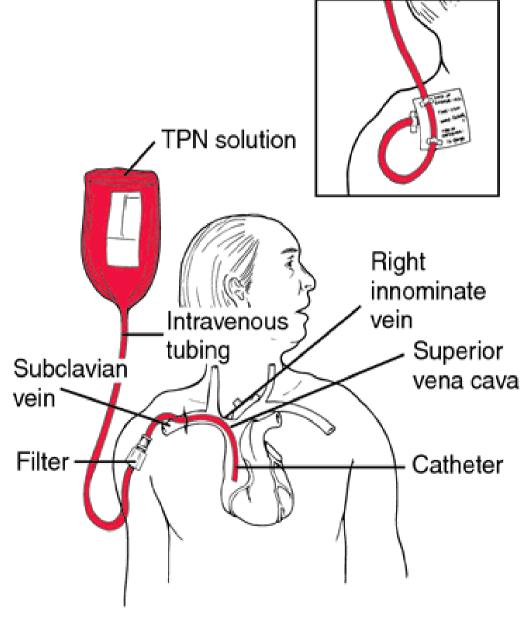
CKD → **Peritoneal Dialysis**



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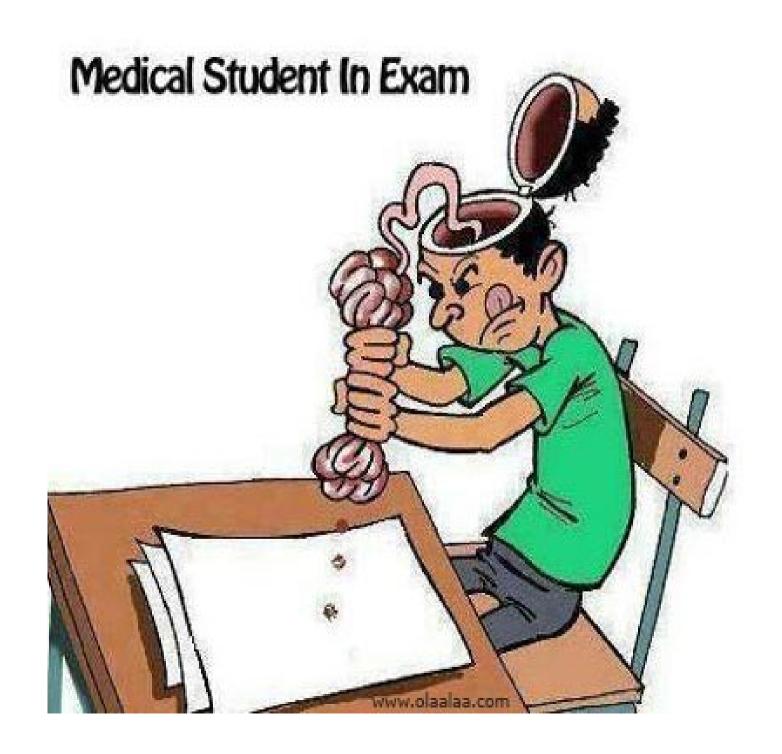
Esophageal Cancer → **TPN**



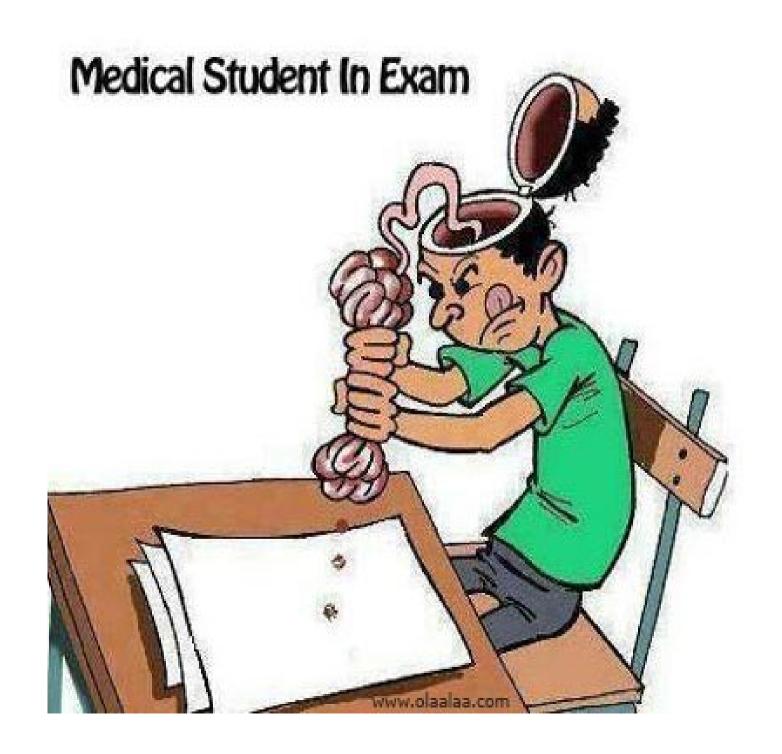


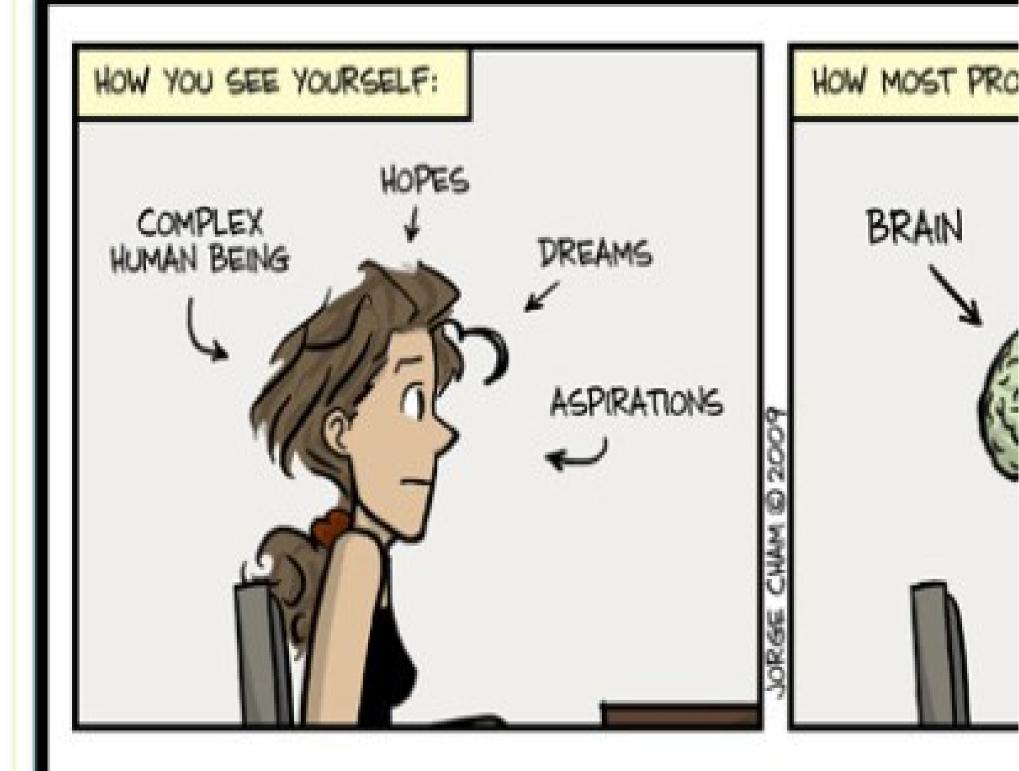


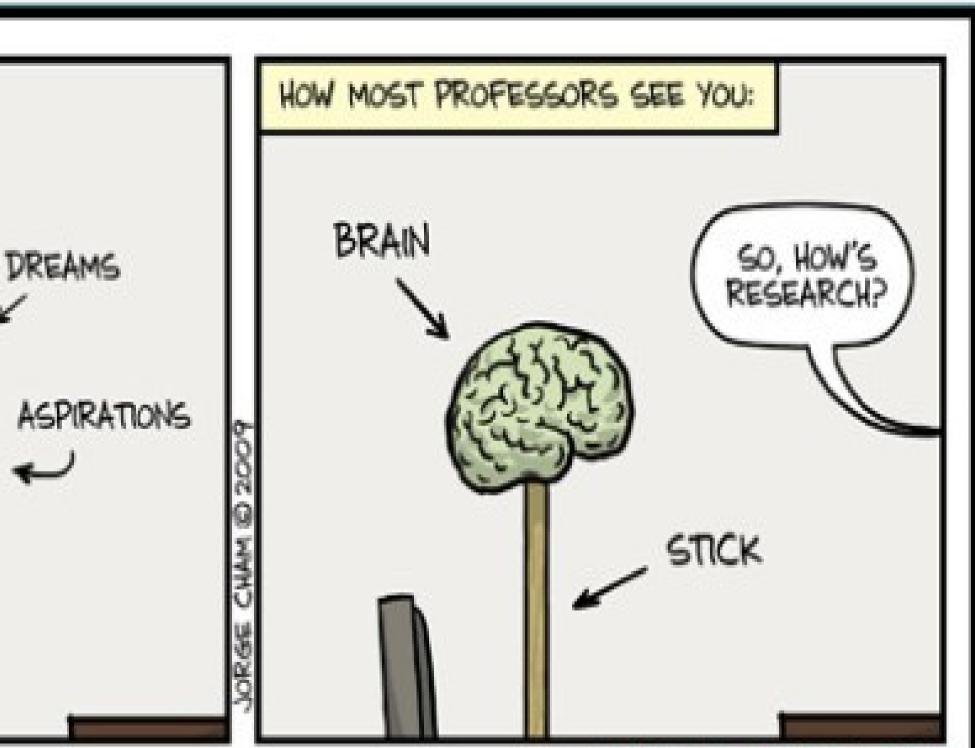
WHAT I LIKE ABOUT ANATOMY
IS THAT WE GET A CHANCE
TO WORK WITH PROPLE!



PHYSIDLOGY I WAKE ... THANKS ...







LULI BURGONICE CON



Laughing is the best medicine. But if you're laughing for no reason, you need medicine.

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