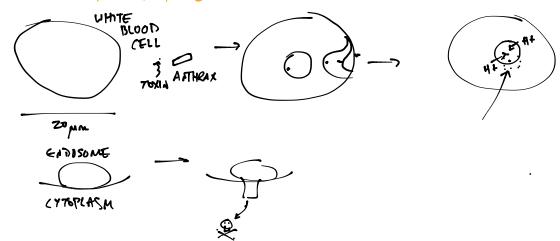
SMALL MALECULES, BIG EFFECTS:

AN INSPIRATIONAL TALE



ON SLEETN QUESTIONS:

IF WERE GONG TO ANSWER QUESTION WELL, WE NEED SOME WAY TO TREAT CHT

STACT WITH GOALS

QUIZ ASOUT PH

COMPLAIN ABOUT VAITS ... ~ (ARLS BERG

$$(H^{+}] \rightarrow PH = -log_{10}([H^{+}])$$

$$(H^{+}) = 10^{-}PH \qquad \qquad KACID$$

$$CACROXYLIC \qquad PRODUCT \qquad PROD$$

HOW TOO WE LINK PH TO KA?

PH
$$\rightarrow$$
 Ka? $K_{a} = \frac{H^{2}(A)}{(HA)}$

$$-log_{10}(K_{c}) = -log_{10}(\frac{H^{2}(A)}{(HA)})$$

$$PK_{a} = -log_{10}(\frac{H^{2}(A)}{(HA)})$$

$$PK_{a} = PH - log_{10}(\frac{A}{(HA)})$$

$$PH = PK_{a} + log(\frac{A}{(HA)})$$

NOTGING TO TALK ABOUT BUFFERING ... GOING TO WORRY MORE ABOUT A] US. (HA). HISTIDINE:

$$R - \bigvee_{N} + +$$

@ SOME pH, "WHAT IS CHARGE ON HISTIDISE"

A = FRACTIONAL PROTONATION

$$PH = pKa + log (A)$$

$$PH = pKa + log (A)$$

$$PH - pka = log (A)$$

$$PH - pka = (A)$$

$$PH - pka = (A)$$

$$PH - pka$$

$$PH - pka = (A)$$

$$PH - pka$$

