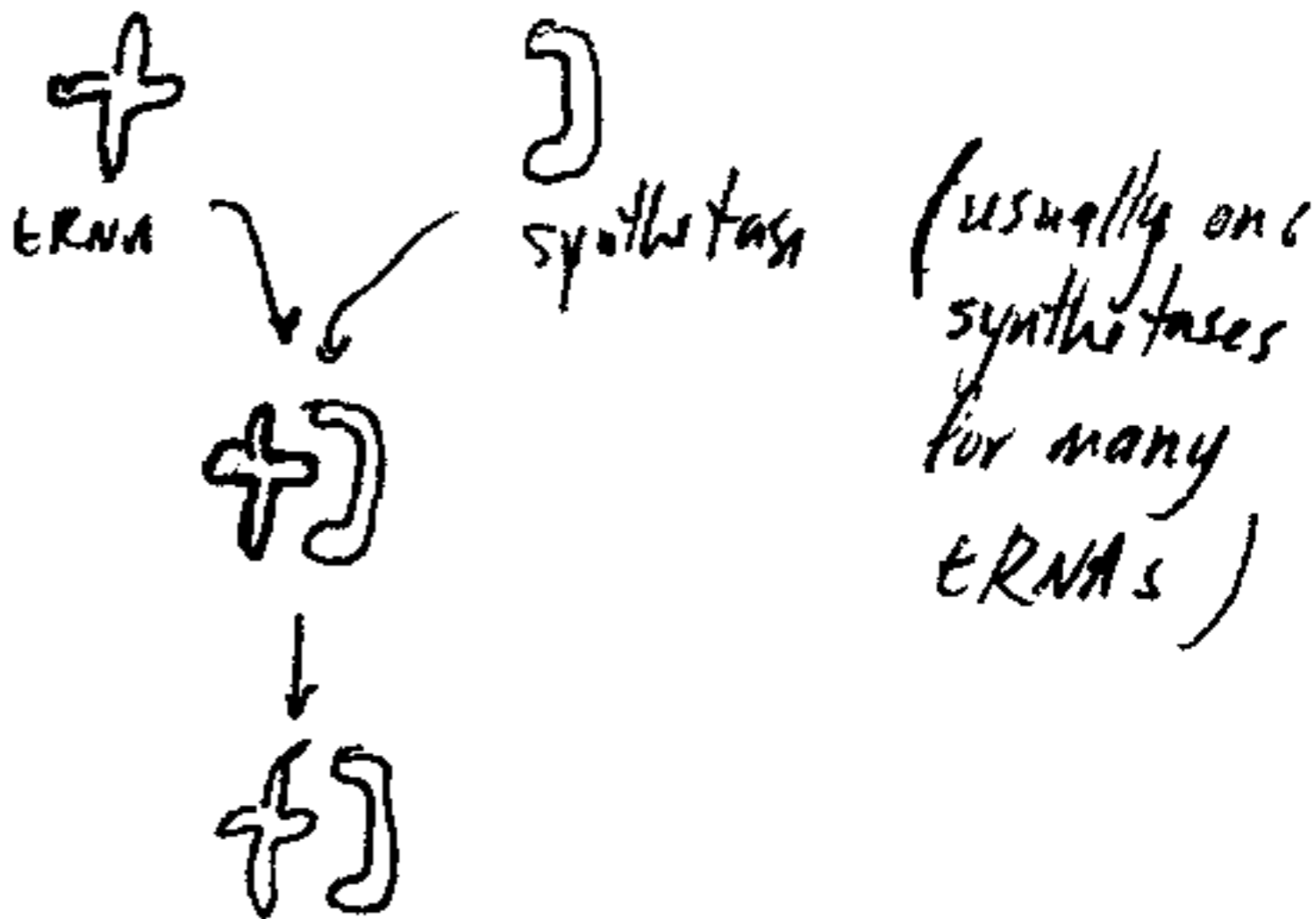


Peggy Saks

tRNA charging



(usually one synthetase for many tRNAs)

tRNA'S

two types: I + II with slightly diff. structures

- also two types of synthetases

Class I

Class II

Mechanism of Recognition

## Comparisons

- Mycoplasmas lack GlnRS  
but GlnRS can make right car-tRNA
- M. jannaschii lacks Cys-~~RS~~

## Serine anticodons

GGA

UGA

CGA

GCU

} Brenner found both types  
of codons in active  
sites of proteins

## M. jannaschii tRNAs

ser + Cys similar

