

1. Open problems in computational biology

- (a) When did humans and chimpanzees last share a common ancestor?
- (b) What genes impact the risk of diabetes?
- (c) How does malaria become resistant to antibiotics?

2. Z-scores

G G A A G G A A G A G G G A A G G A A G

Z_k

3. Z-algorithm

G G A A G G A A G A G G G A A G G A A G

k

case

j

Z_j

$|\beta|$

Z_k

ℓ

r