

Mutation hotspots are associated with gene expression, signaling pathways, protein domains and drug response

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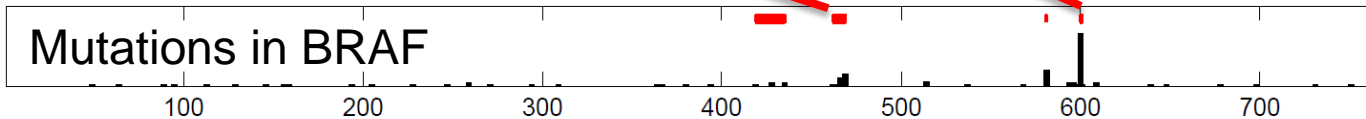
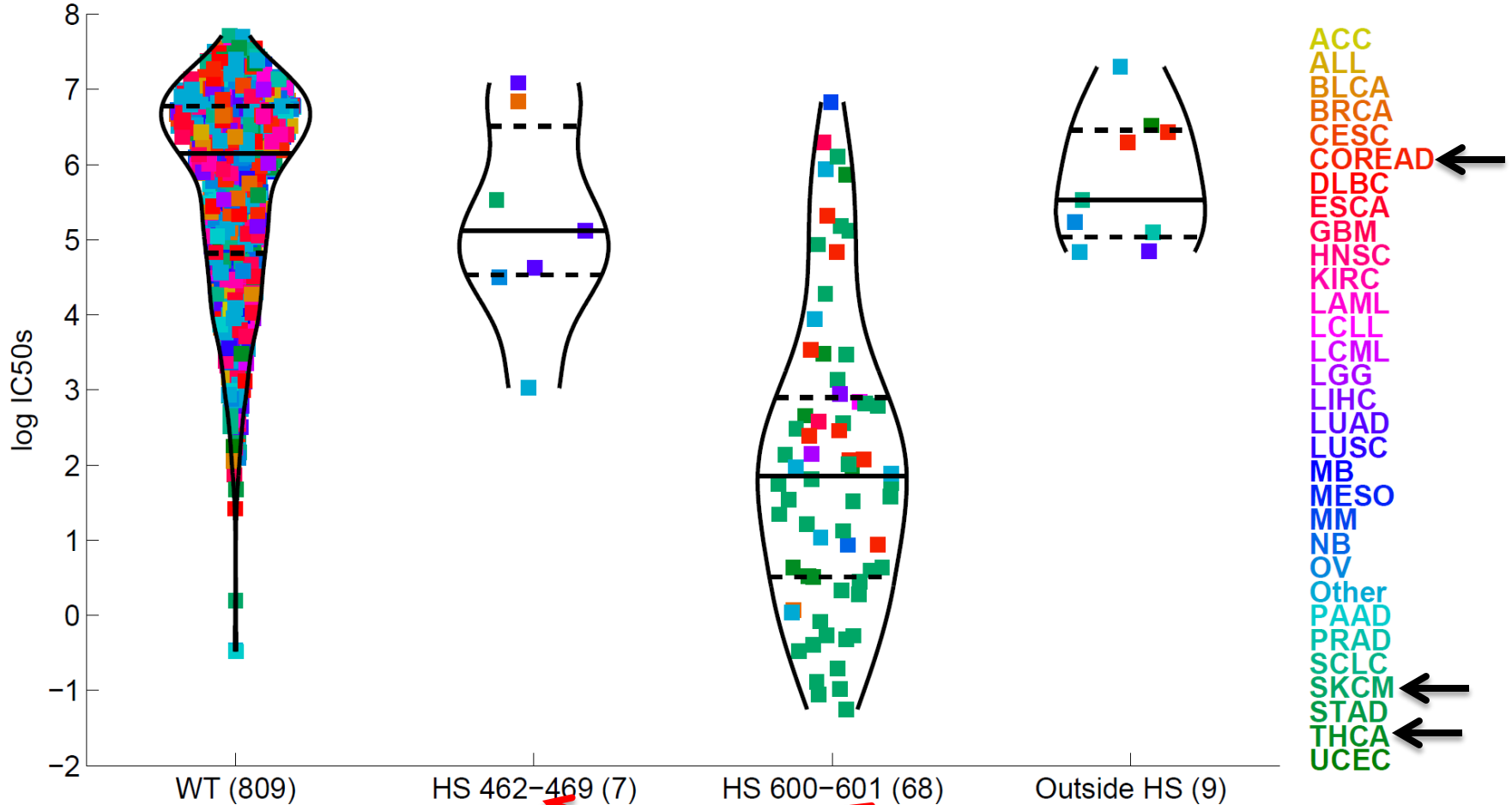
Brady Bernard



Ilya Shmulevich

The location of mutations in a gene matters

Drug response to Vemurafenib (inhibitor of V600E BRAF mutants) in GDSC 1000 cell line panel



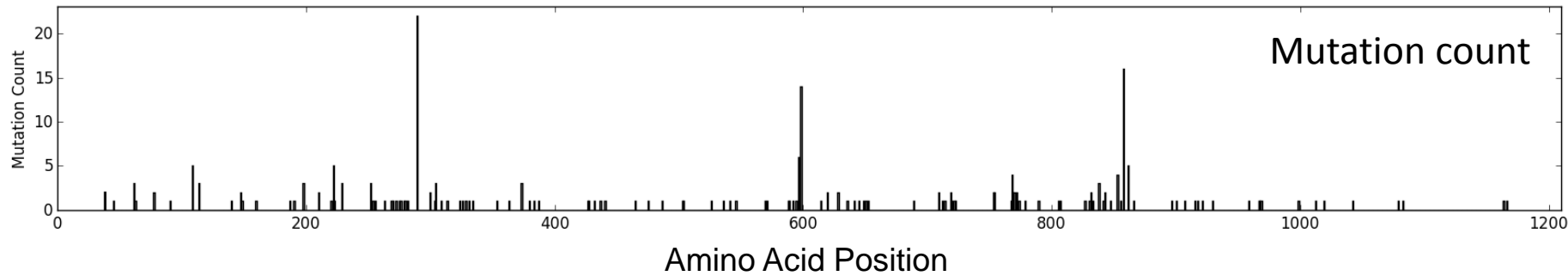
Finding mutation hotspots





Finding mutation hotspots

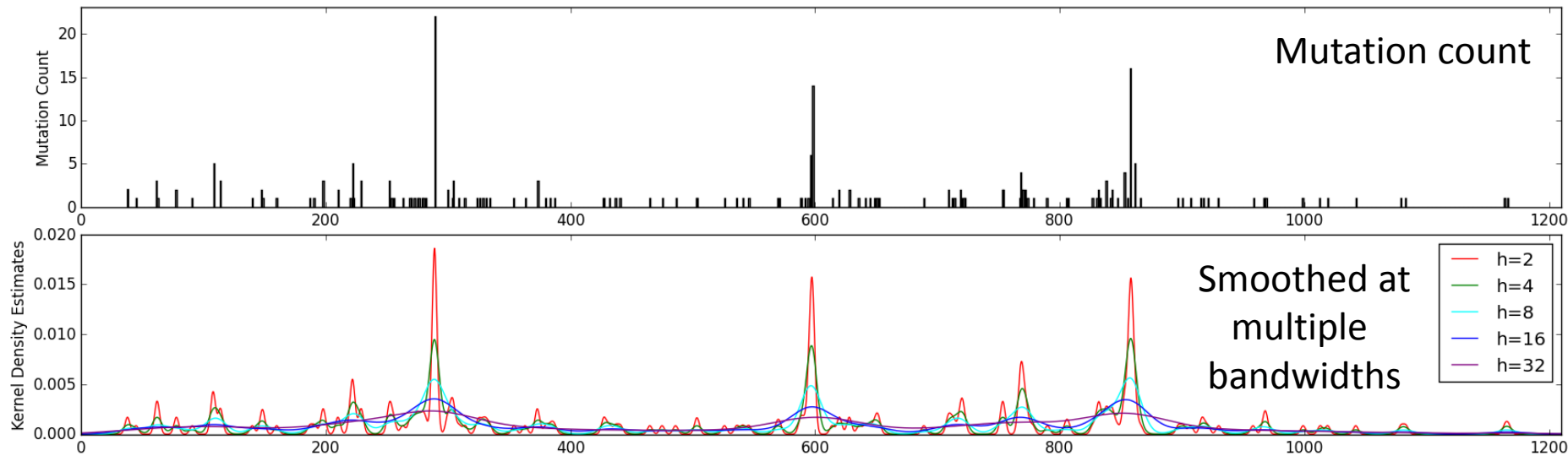
EGFR in PANCAN11





Finding mutation hotspots

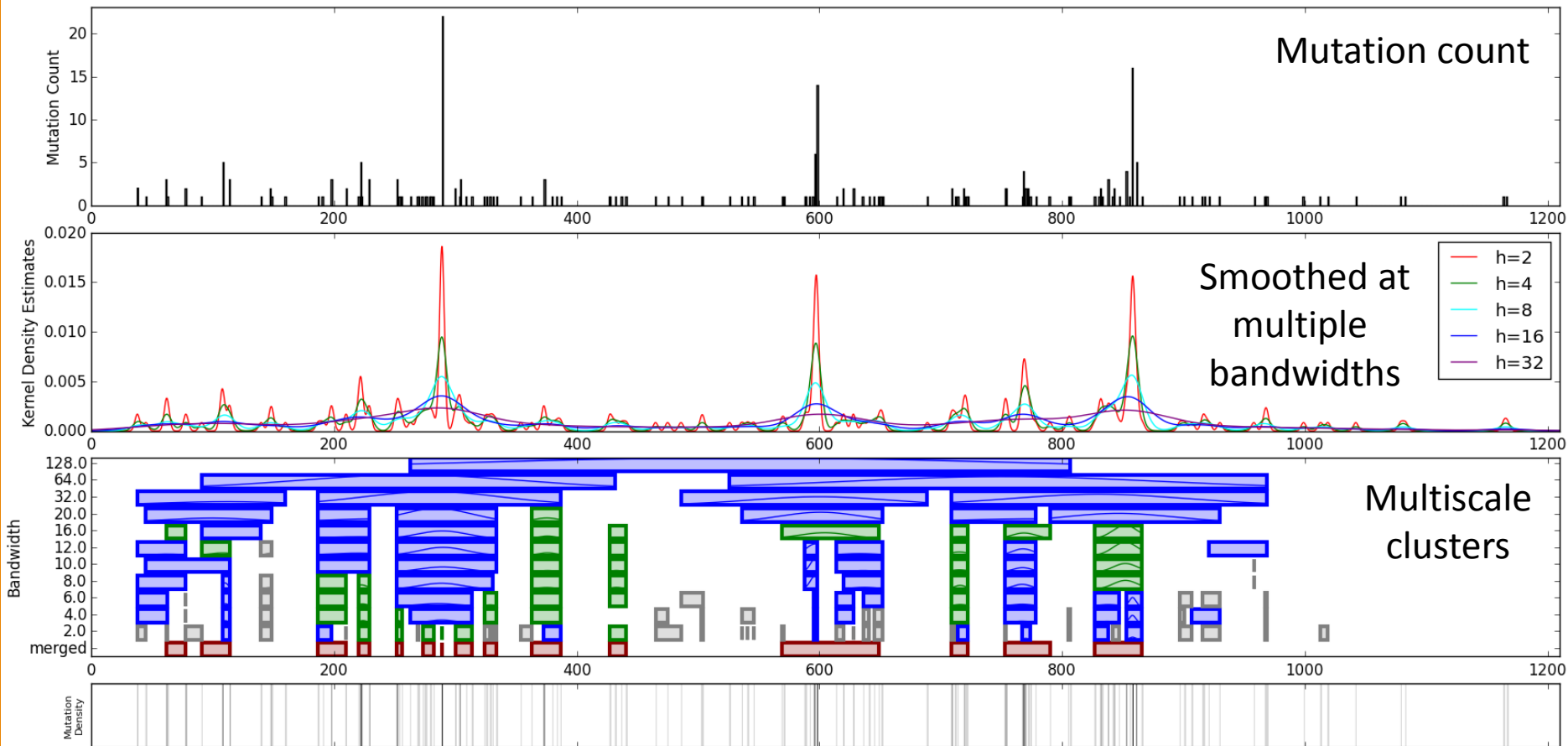
EGFR in PANCAN11





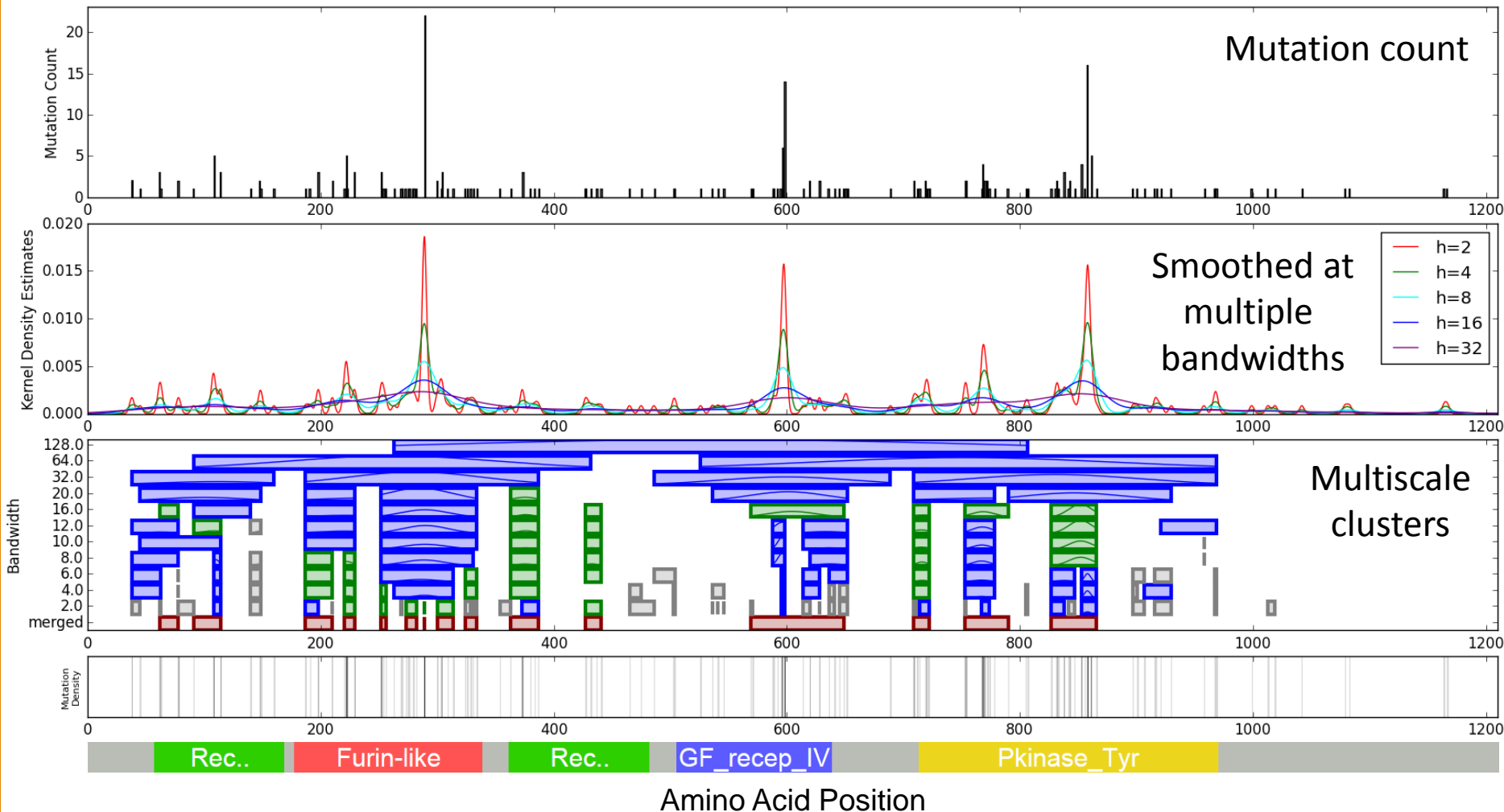
Finding mutation hotspots

EGFR in PANCAN11



Finding mutation hotspots

EGFR in PANCAN11



- 75% of the mutations in hotspots are inside protein domains

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