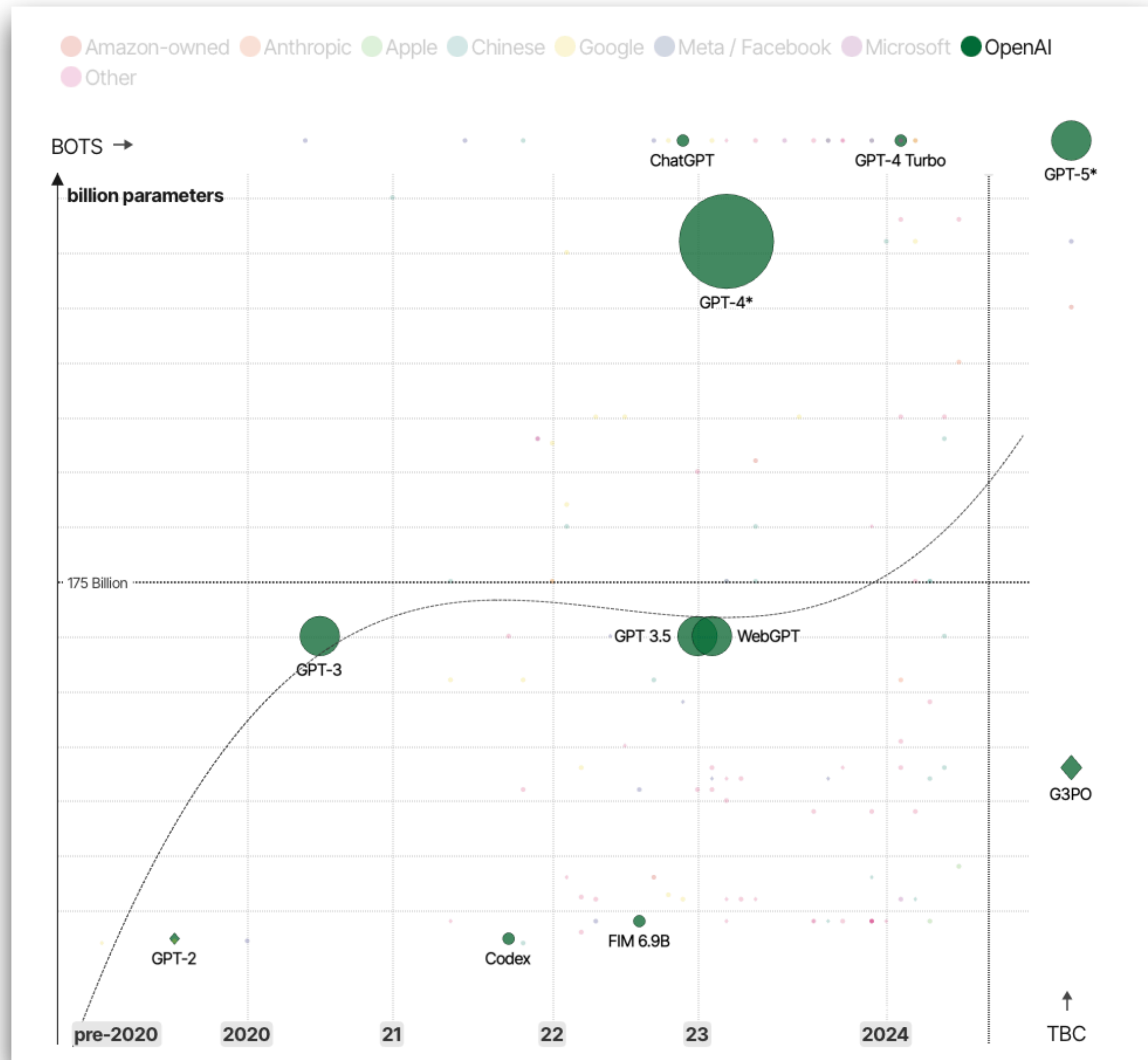


# Protein Circuit Tracing via Cross-layer Transcoders

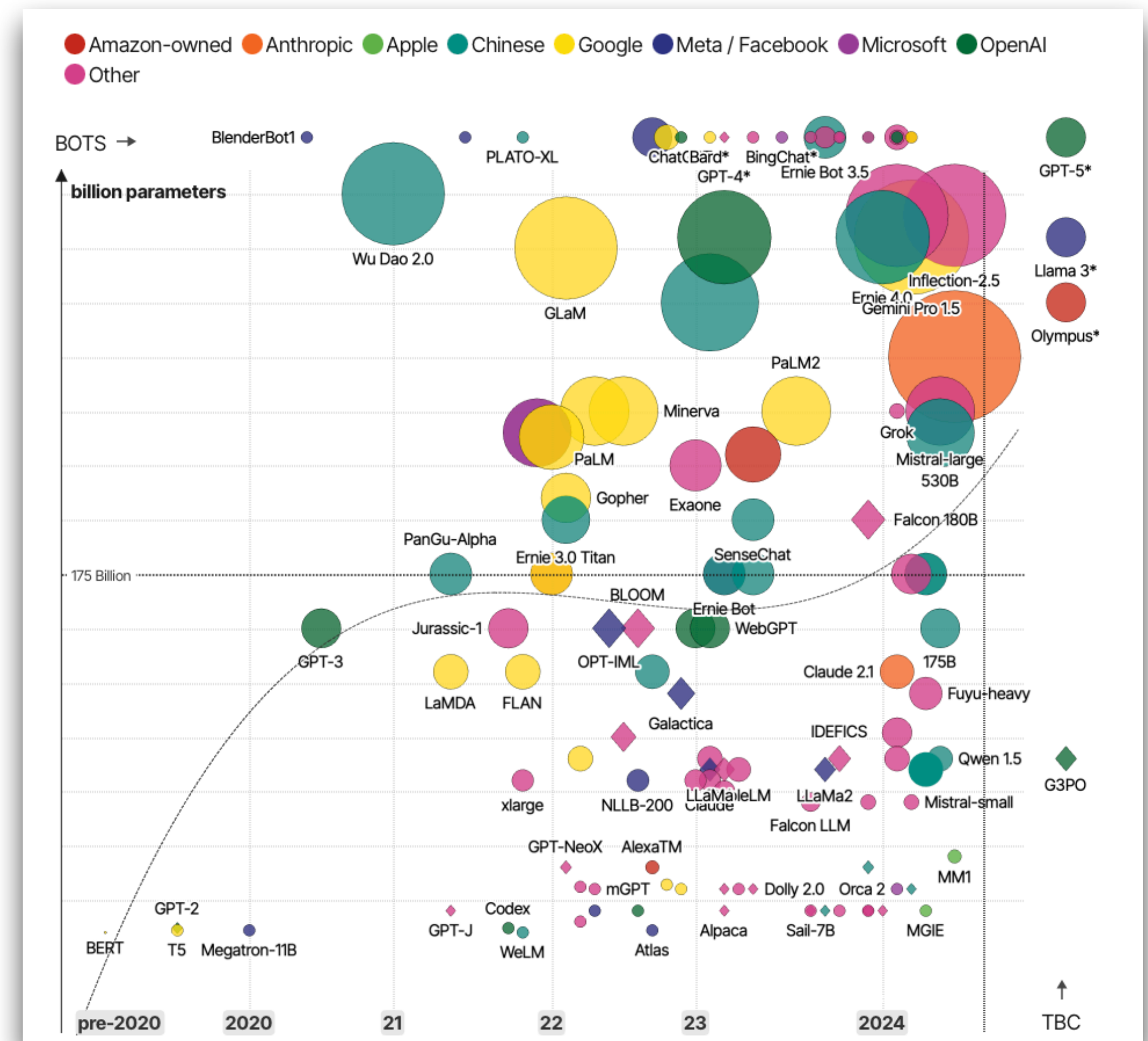
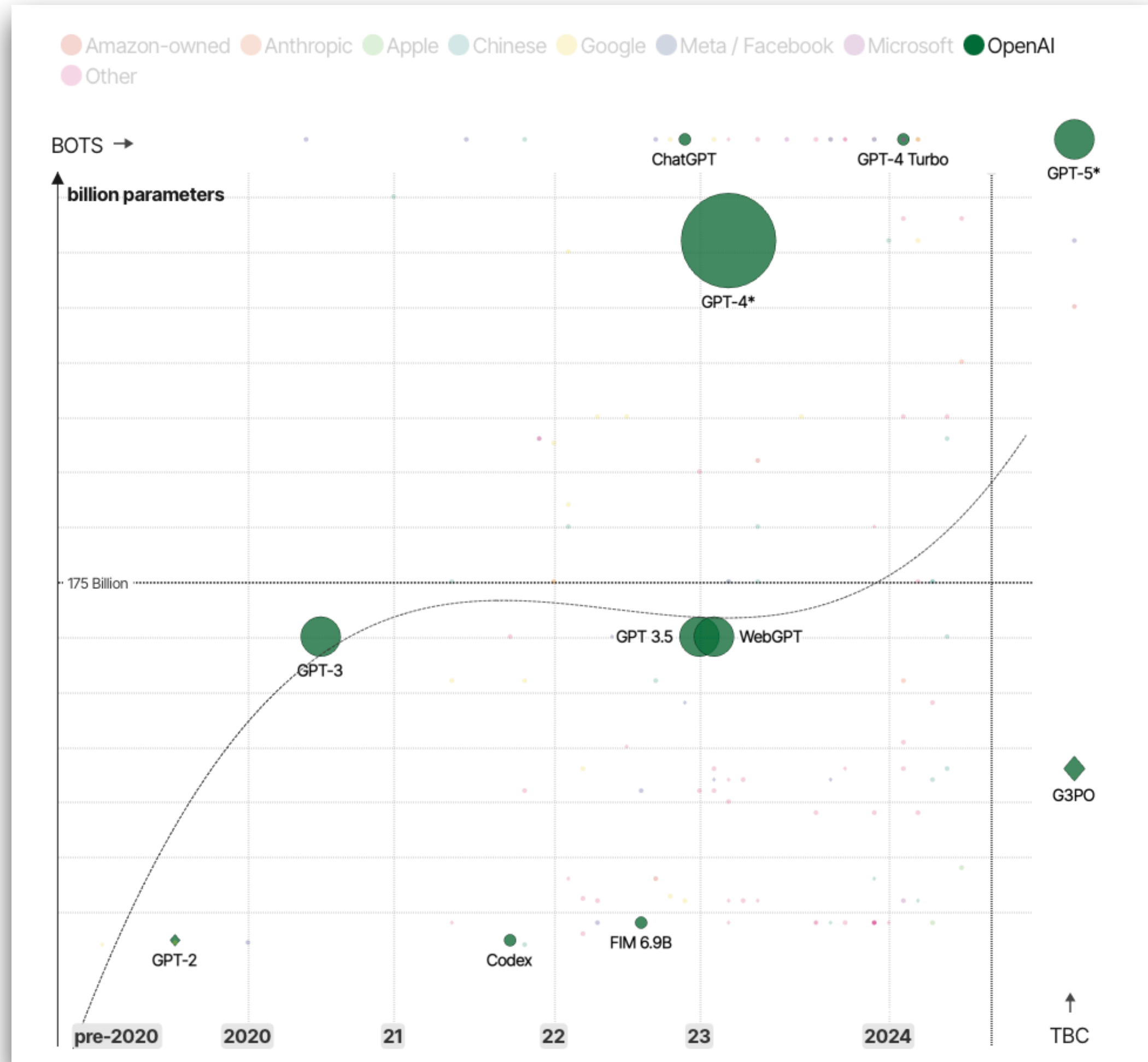
Darin Tsui, Kunal Talreja, Daniel Saeedi, Amirali Aghazadeh



# the rise and rise of AI



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# AI breakthroughs in science



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Trained on **2.8 billion** proteins  
**96 billion** parameters

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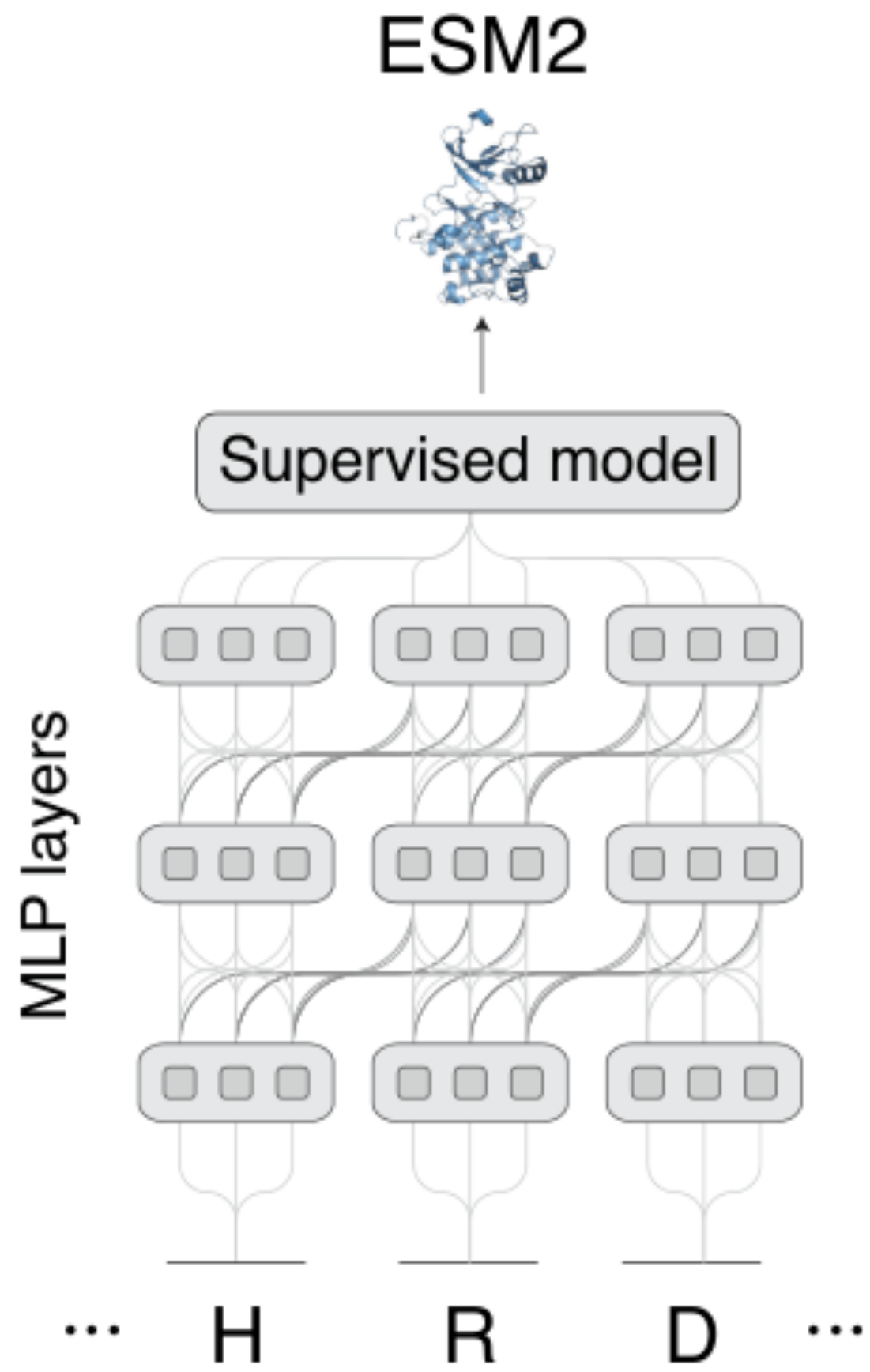
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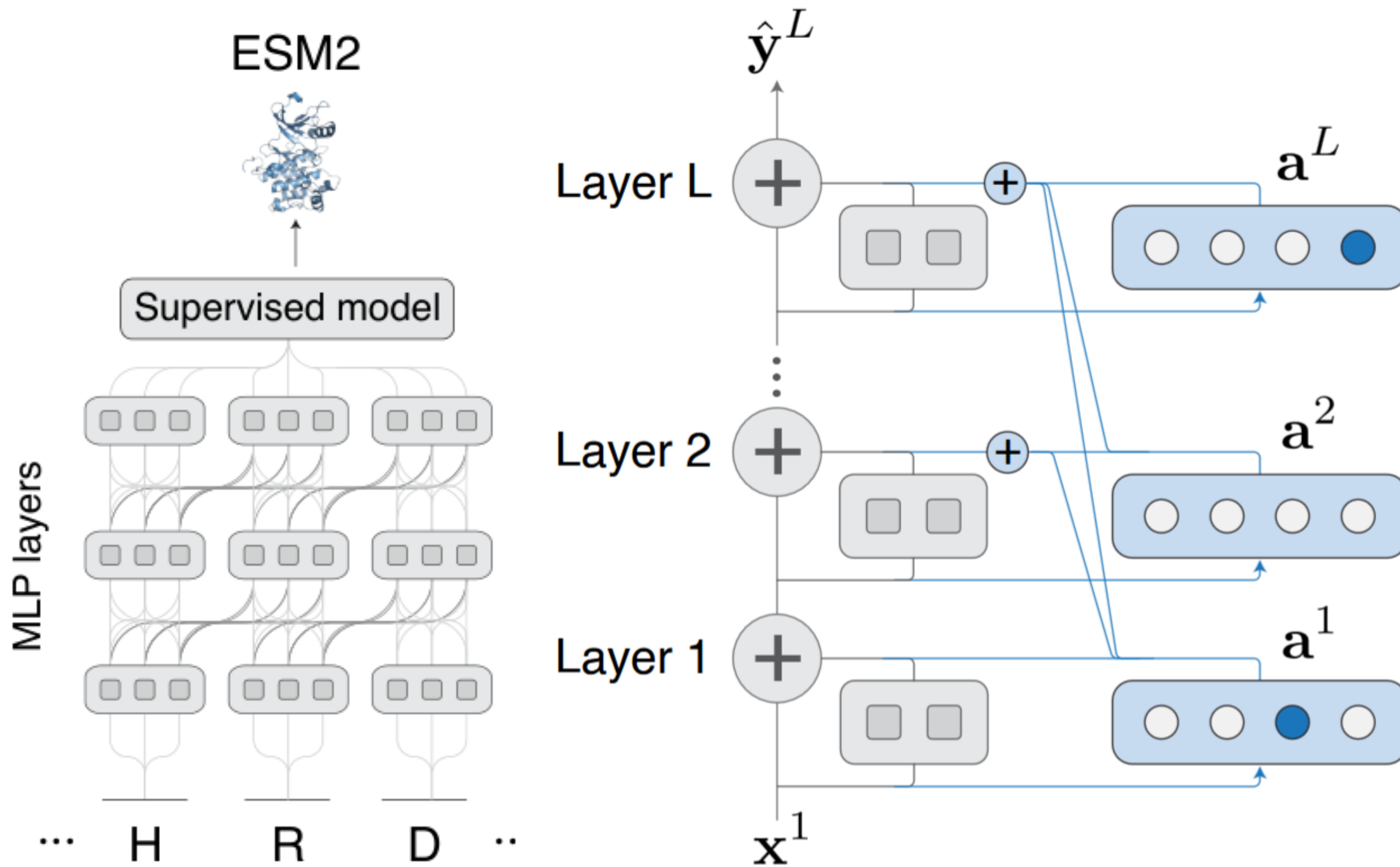
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But does our power to **explain** them also **scale**?

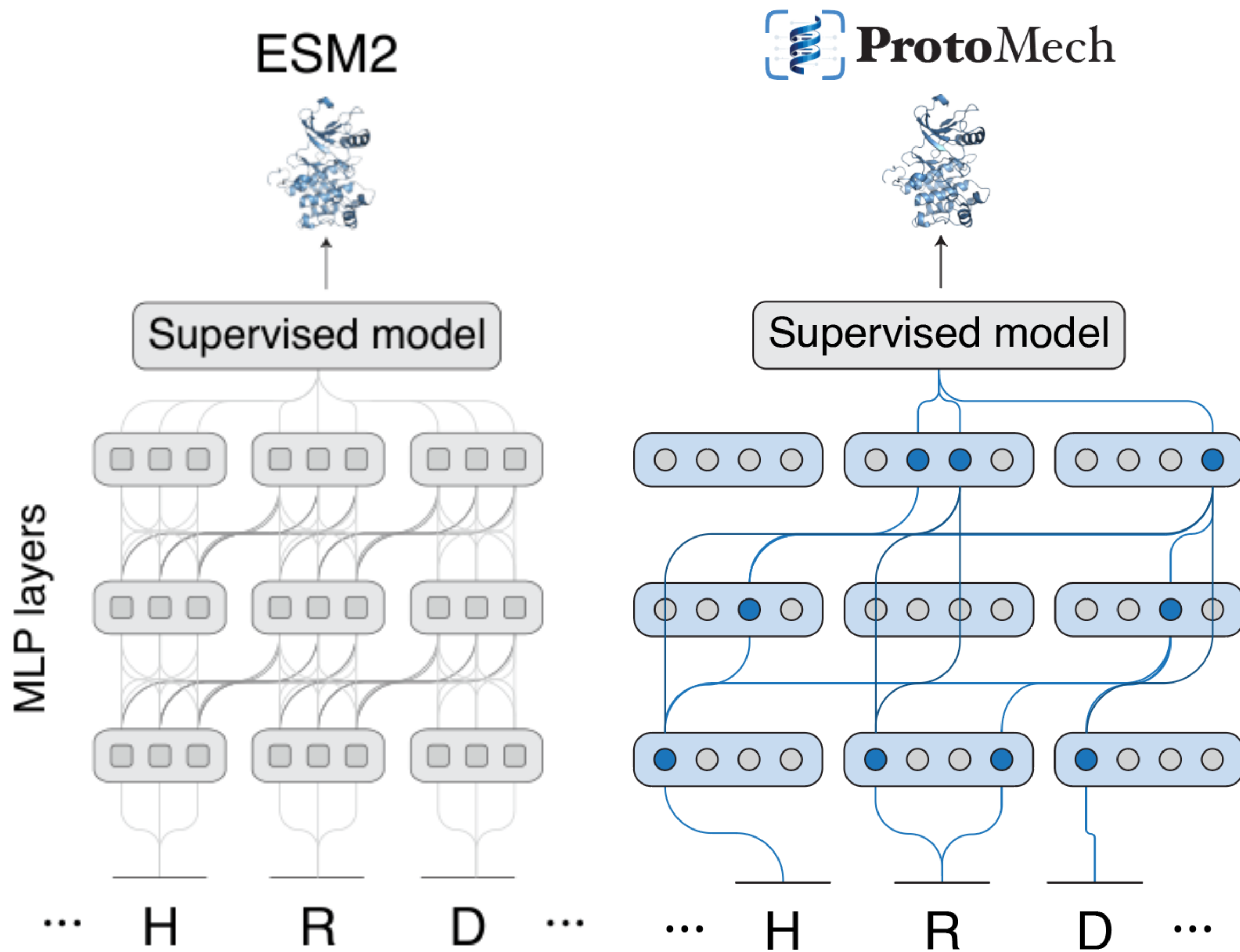
# ProtoMech functions as a replacement model for ESM2



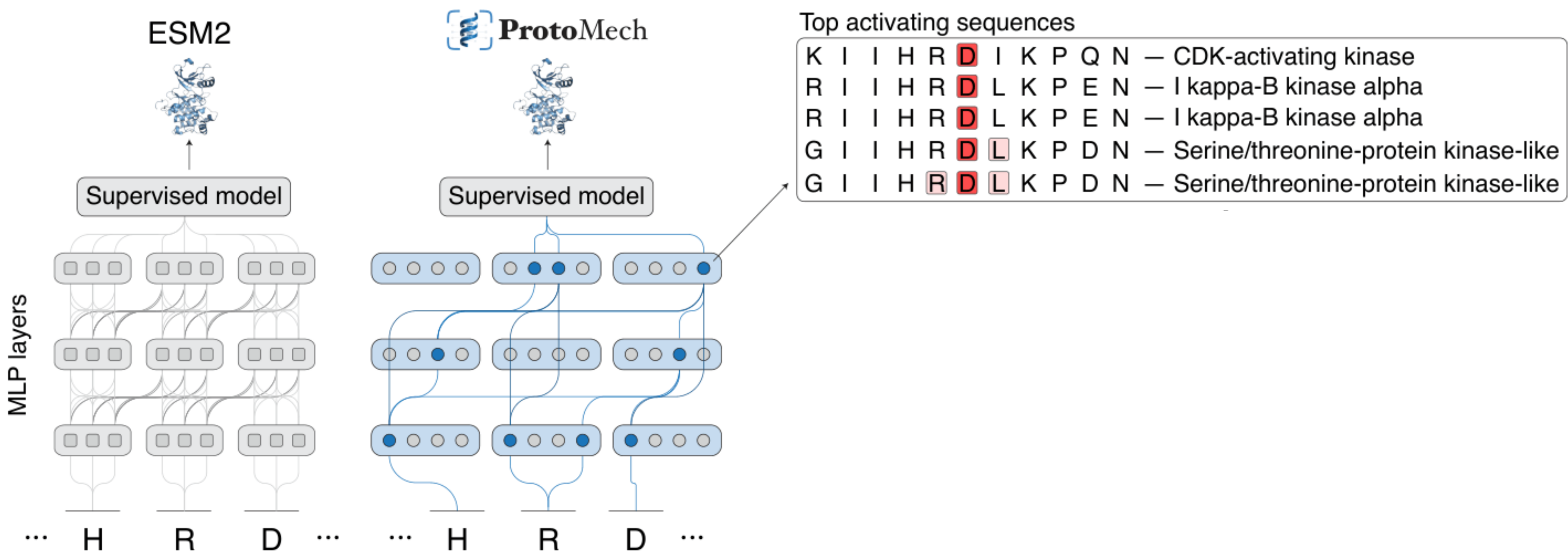
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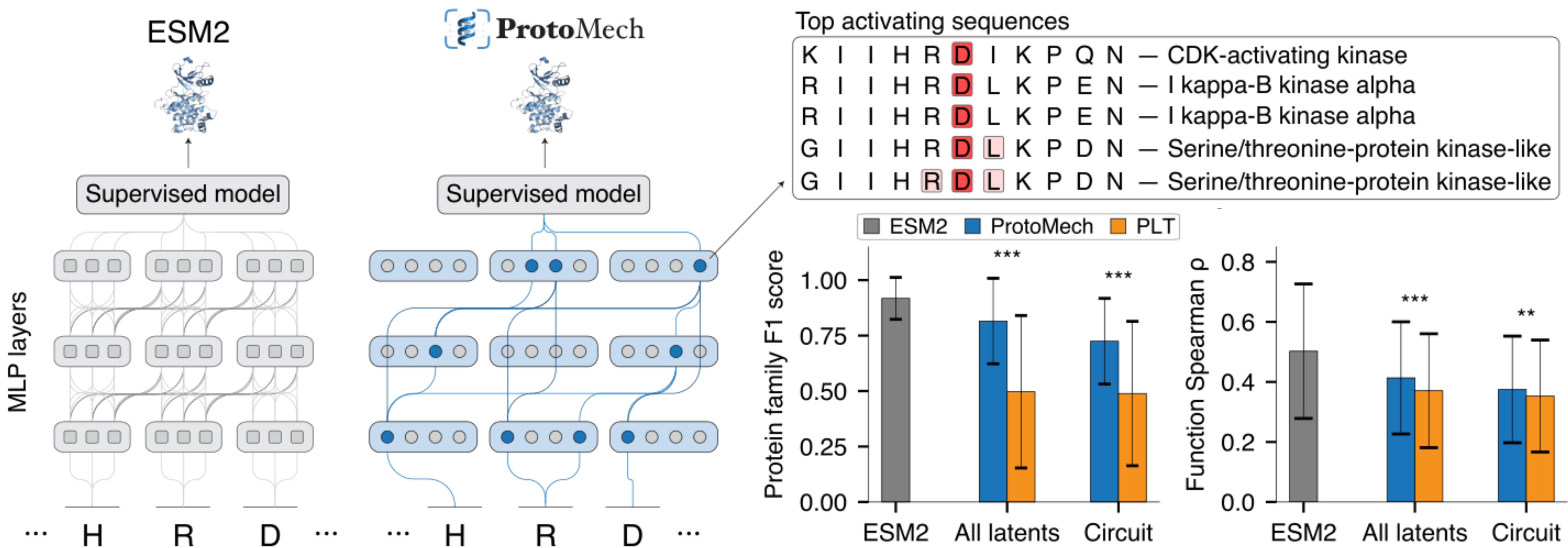
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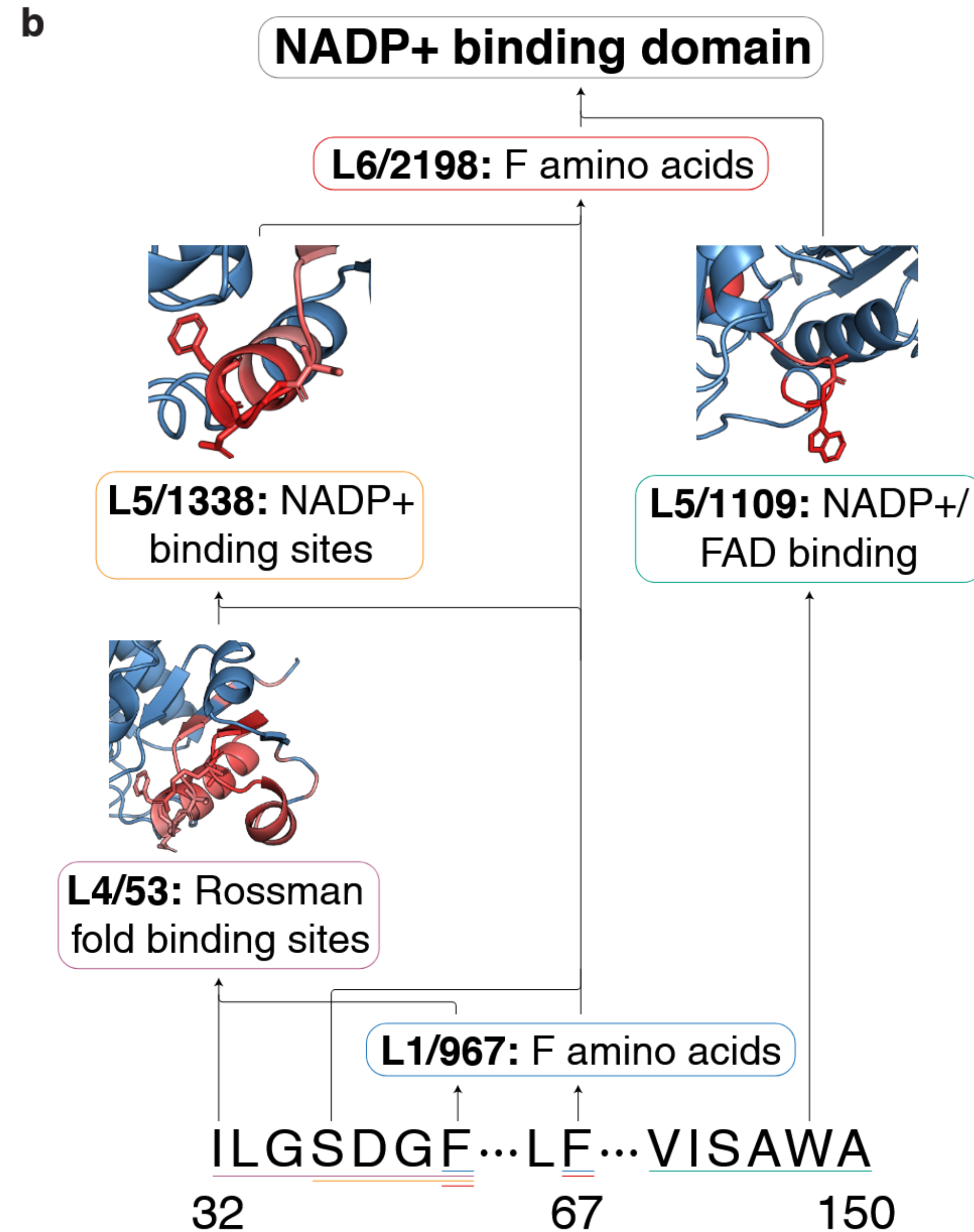
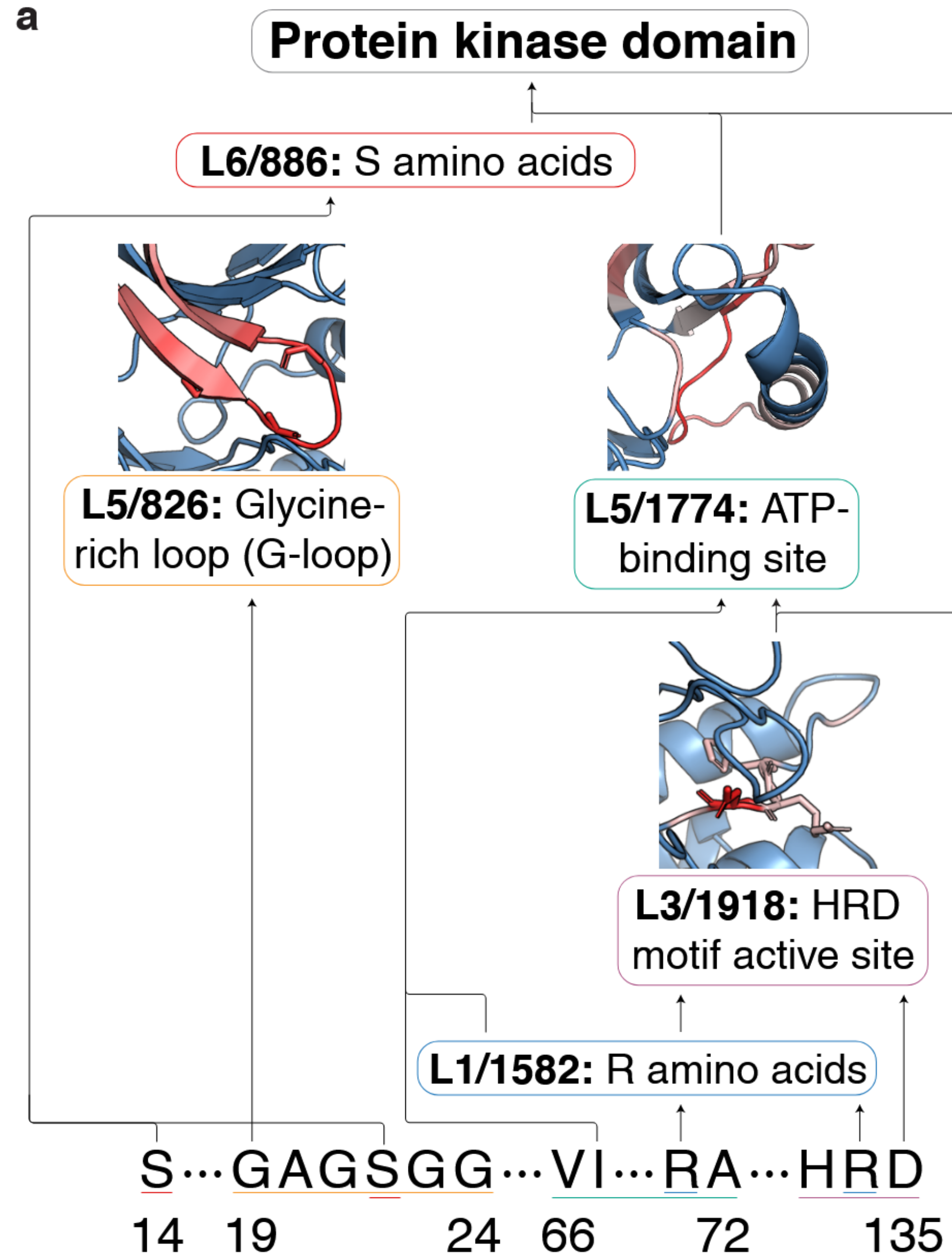
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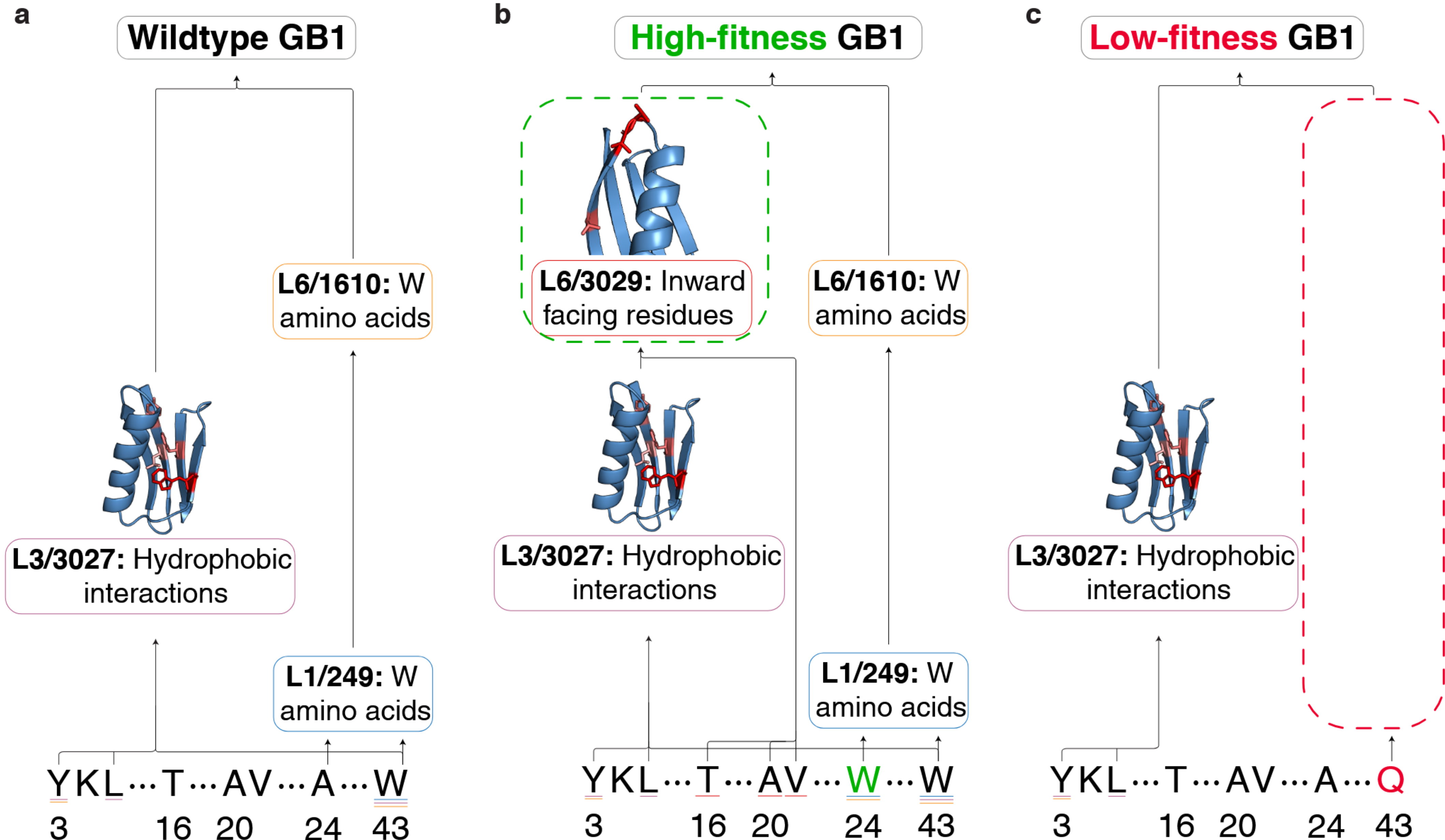
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# ProtoMech reveals known biological motifs



# ProtoMech reveals known biological motifs





**thank you!**



Paper



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