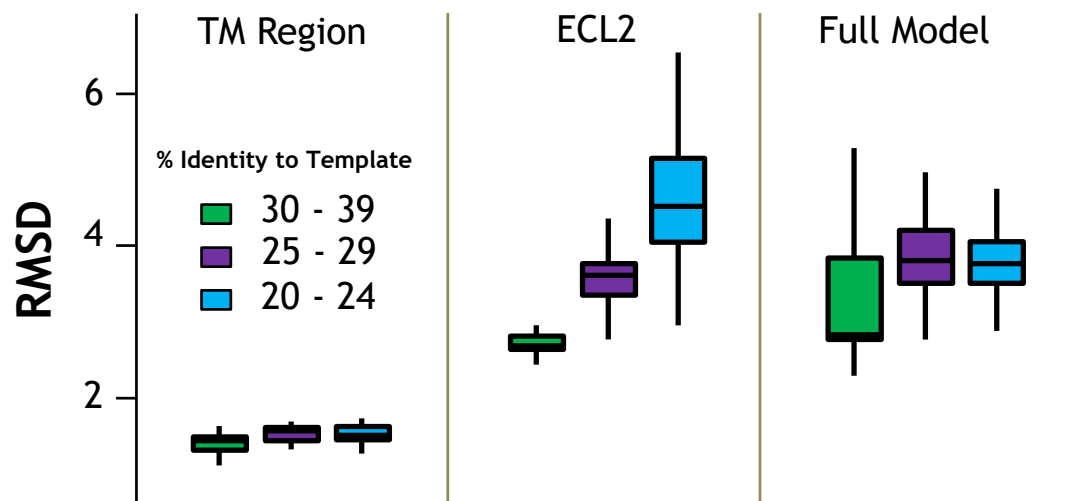


GPCR-Specific Rosetta-Based Structure Prediction

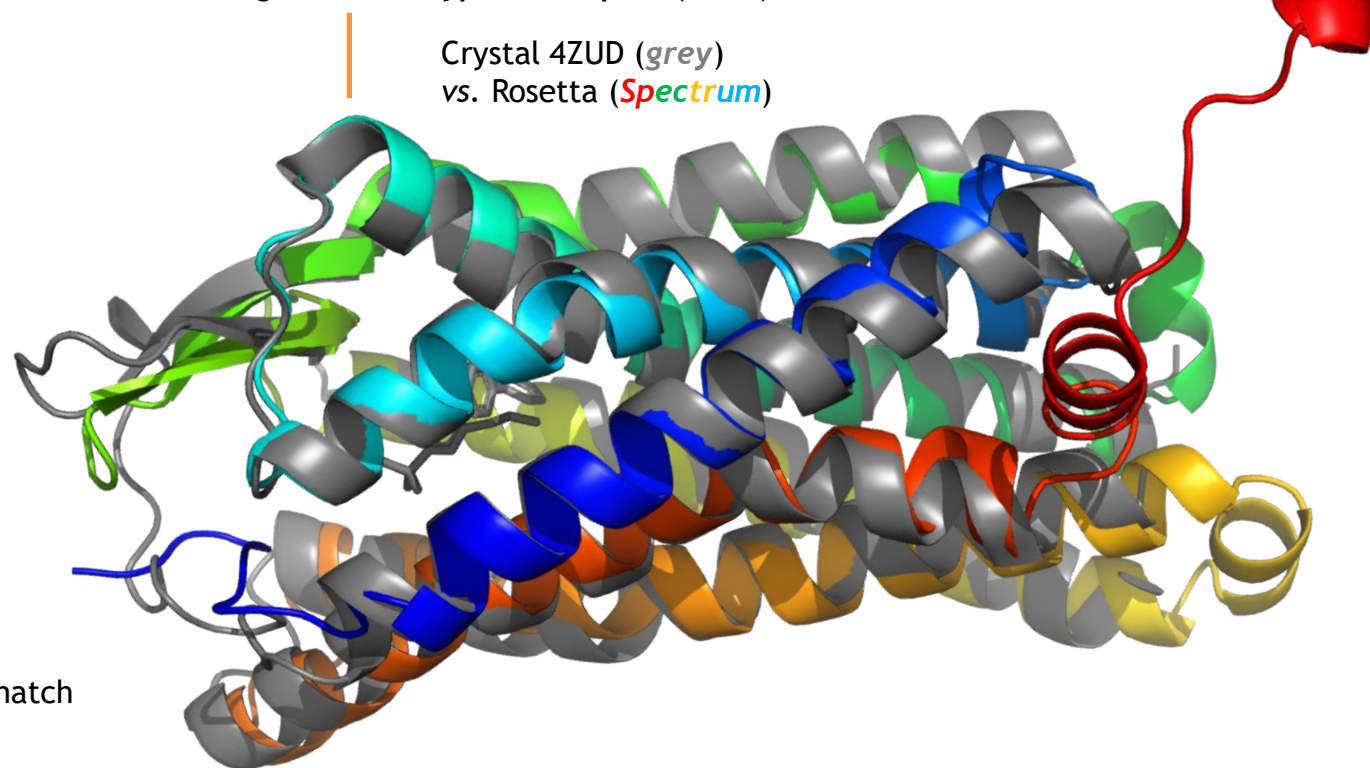
Predictive Down to 20% Template Similarity



GPCR Class-Specific Alignment

- Sequence & Structure based
- Helix positioning aided by motif match
- ECL2 & 3 specific
- Ballesteros-Weinstein numbering

Representative Example:
Angiotensin II type 1 receptor (AT1R)



“We find that *RosettaGPCR* consistently outperforms the other approaches”

Bender BJ, Marlow B, Meiler J.

RosettaGPCR: Multiple Template Homology Modeling of GPCRs with Rosetta
bioRxiv. 2019 Dec. preprint doi: <https://doi.org/10.1101/2019.12.13.875237>

