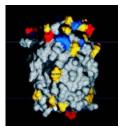
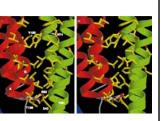
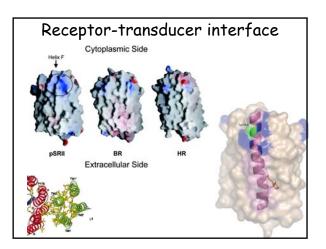


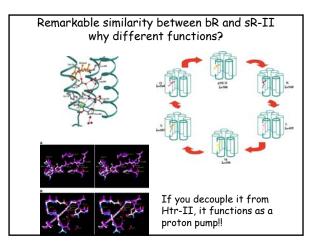
Receptor-transducer interface





Structure is strikingly very similar to Np-sR-II alone; only Tyr199 is different (90 degree rotated) Interface mainly vdW, only a few H-bonds

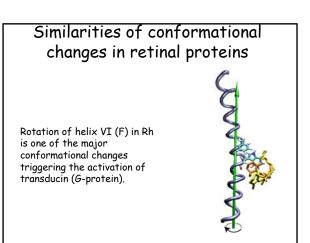




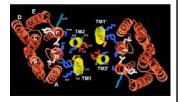
Similarities of conformational changes in retinal proteins

Displacement of helices F and G in bR is responsible for the opening of the cytoplasmic half channel and entrance for water molecules necessary for reprotonation of retinal Schiff base.

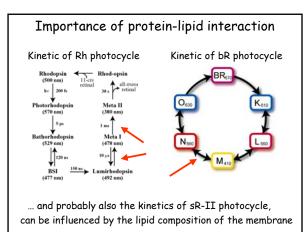
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Similarities of conformational changes in retinal proteins



Outward motion of helix F in sR-II causes the rotation of one of the two helices in the transmembrane region of the transducer and its further conformational change.



Next week

Membrane channels:

Aquaporins