



We are indebted to many people for helping us learn more about aquaporins. To the numerous research articles we read, the web pages and associated diagrams we perused. We would like to pay special thanks to the following people and works who helped us understand the nature of aquaporins a little more fully. Thank you to these people.

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Special Thanks for Mr. Mark Hoelzer of the Center for Biomolecular Modeling for providing a modified PDB 101 file of 1YMG from Dr. David Goodsell's PDB Molecule of the Month Aquaporin page.
<http://pdb101.rcsb.org/motm/173>

Obviously, we are indebted to the many researchers who have given of their time and talents so that learning may occur. These are some of the people associated with the PDB files and associated primary citations

3D9S

von Bulow, R., Schmidt, B., Dierks, T., von Figura, K., Uson, I. (2001). Crystal Structure of an Enzyme-Substrate Complex Provides Insight into the Interaction between Human Arylsulfatase A and its Substrates During Catalysis. J. Mol. Biol. 305: 269-277

Horsefield R1, Nordén K, Fellert M, Backmark A, Törnroth-Horsefield S, Terwisscha van Scheltinga AC, Kvassman J, Kjellbom P, Johanson U, Neutze R. **High-resolution x-ray structure of human aquaporin 5**. Proc Natl Acad Sci U S A. 2008 Sep 9;105(36):13327-32. doi: 10.1073/pnas.0801466105. Epub 2008 Sep 3.
<http://www.rug.nl/research/portal/files/2749606/2008ProcNatlAcadSciHorsefield.pdf>

1FQY

Kazuyoshi Murata, Kaoru Mitsuoka, Teruhisa Hirai, Thomas Walz, Peter Agre, J. Bernard Heymann⁶, Andreas Engel & Yoshinori Fujiyoshi. **Structural determinants of water permeation through aquaporin-1** Nature 407, 599-605 (5 October 2000) | doi:10.1038/35036519; Received 21 June 2000; Accepted 24 September 2000
<http://www.nature.com/nature/journal/v407/n6804/full/407599a0.html>

1YMG

William E. C. Harries, David Akhavan, Larry J. W. Miercke, Shahram Khademi, and Robert M. Stroud. **The channel architecture of aquaporin 0 at a 2.2-Å resolutions**, Proc.Natl.Acad.Sci.USA 101: 14045-14050, doi:

10.1073/pnas.0405274101

<http://www.pnas.org/content/101/39/14045.short>

4NEF

Frick A., Eriksson U.K., de Mattia F., Oberg F., Hedfalk K., Neutze R., de Grip W.J., Deen P.M., Törnroth-Horsefield S. X-ray structure of human aquaporin 2 and its implications for nephrogenic diabetes insipidus and trafficking.

(2014) Proc.Natl.Acad.Sci.USA 111: 6305-6310

<http://www.rcsb.org/pdb/results/results.do?tabtoshow=Citation&qrid=1CA006BB>

Dr. Susanna Törnroth-Horsefield provided an edited version of the 4NEF for us to use, an image that included cadmium in a slightly different location than appears on the PDB file page.

4OJ2

<http://www.rcsb.org/pdb/explore/explore.do?structureId=4OJ2>

Structure of Aquaporin

Vahedi-Faridi, A., Lodowski, D., Schenk, A., Kaptan, S., De groot, B., Walz, T., Engel, A.

We were referred to this pdb file by Dr. Susanna Törnroth-Horsefield. The deposition authors include: Vahedi-Faridi, A., Lodowski, D., Engel, A., Transcontinental EM Initiative for Membrane Protein Structure