

Aquaporin is ready to initialise discussions on application development in collaboration with selected strategic partners and would like to introduce you to the concept of biomimetic water membranes and the possibility of a strategic partnership in specific product/application development.

## Interested in becoming a strategic business partner?

Aquaporin's business model is to partner up with selected leading system providers in each segment through narrow banding co-development & supply agreements.

The business model is Aquaporin Inside™, where the technology will be implemented in applications in collaboration with selected partners.

If your company is interested in a dialogue on strategic partnership in selected water market segments, we will be happy to enter into discussions with you

PLEASE CONTACT US FOR FURTHER INFORMATION...



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### THE AQUAPORIN VALUE NETWORK

Suppliers of membrane components

- Component suppliers

Provider of membrane technology

- Aquaporin Inside™

System manufacturers

- Manufacturers of UPW/RO/FO water purification systems and PRO systems
- Clients for Aquaporin Inside™

End users

- Global industry
- Global population

**Selling point:**  
- Reduced energy costs  
- Ultra Pure Water

**Selling point:**  
- Higher quality in production and lower costs → increased competitiveness and higher margins



## Invitation to join the water revolution



Please see our new scientific animation movie on [www.youtube.com/watch?v=dpBTK\\_6CthQ](http://www.youtube.com/watch?v=dpBTK_6CthQ) for a fast introduction to the aquaporin membrane technology™ in general

The mission of Aquaporin is to become the world leader in development and production of the Aquaporin Inside™ technology, and to deliver this proprietary and superior membrane technology to system providers



## Join the Water Revolution

Aquaporin A/S is an industrial biotech/cleantech company based in Copenhagen, Denmark.

Aquaporin develops a novel biomimetic water membrane, based on nature's own water filter, aquaporin water channels.

Aquaporin Inside™ is capable of purifying water to a unique level of purity, while concurrently reducing energy costs.

In laboratory tests the Aquaporin Inside™ technology has demonstrated the potential to be vastly superior both in terms of efficiency and effectiveness compared to any other known water purifying technology.

The technology is still in the development phase, however, Aquaporin is extracting water with extremely high initial salt rejection rates of 99,9997% and initial water fluxes of ~10 kg/m<sup>2</sup>/h (at osmotic gradients of 30 bar in draw solutions), with a membrane design very suitable for industrial upscaling.

Aquaporin Inside™ is developed in two parallel tracks:

A traditional Reverse Osmosis (RO) membrane track to be used in industrial production where the selective layer consists of natural aquaporin water channels.

Secondly, a novel Forward Osmosis (FO) membrane track, which is different in design, compared to the Reverse Osmosis membrane track. This design for Forward Osmosis secures simple production and good upscaling possibilities for the desalination market and its vast demand for membranes.



- ▶ The disruptive technology is cutting-edge future technology and will not only become disruptive in existing water markets but also create new emerging markets. In 2009, Aquaporin A/S received the Global Water Intelligence Distinction award as Water Technology Idol 2009
- ▶ Aquaporin A/S holds a very strong IP situation in the area of Aquaporin membranes and in the area of biomimetic membrane materials in general
- ▶ Aquaporin Inside™ is developed and tested in collaboration with a number of world class partners, including Novozymes, a world leader within industrial biotechnology (future supplier of membrane protein component)
- ▶ The technological development has been acknowledged by the European Commission and the Danish National Advanced Technology Foundation and granted financial support. In 2009, Aquaporin furthermore entered into collaboration with the Singapore Membrane Technology Center supported by the Environment & Water Industry Development Council (EWI) in Singapore.