

A cluster of molecular models, including spheres and sticks, arranged in a vertical column on the left side of the page.

General Science Colloquium

Thursday, October 23, 2008, at 11.00
SDU Odense Campus, BMB Seminar Room

Coffee, tea, and cookies from 10.30am
Roadmap: <http://vejviser.sdu.dk/opslag?lid=3427>

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Aquaporin Water Channels

From atomic structure to clinical medicine

Nobel Laureate professor Peter Agre

Johns Hopkins Malaria Research Institute, Baltimore, USA

Om foredragsholderen: Peter Agre modtog 2003 Nobelprisen i kemi for sin opdagelse af vandkanaler. Opdagelsen har givet molekylær indsigt i en af de mest fundamentale og livsbetingende biologiske processer, nemlig hvordan vand transporteres over cellemembraner og celler. Kroppen består af omkring totrediede vand, og transport af vand over celler og regulering af kroppens vandbalance er helt afgørende for liv. Opdagelsen forklarer, hvordan nyrerne regulerer kroppens vandbalance gennem regulering af vandkanaler og har givet indsigt på molekylært niveau i den fejlregulering, der sker af kroppens vandbalance i forbindelse med flere livstruende tilstande som nyresygdomme, hjertesygdomme, leversygdomme, hjerneødem og andre sygdomme. Vandkanaler findes i stort set alle levende organismer, så opdagelsen har også givet en fundamental indsigt i mange andre områder. Der er således påvist mere end to hundrede forskellige vandkanaler i planter, hvor de spiller en afgørende rolle for vandtransport i rødder og dermed for planternes vækst.

About the speaker: Peter Agre was awarded the 2003 Nobel Prize in Chemistry by the Royal Swedish Academy of Sciences. The Academy recognized him for his laboratory's 1991 discovery of the long-sought "channels" that regulate and facilitate water molecule transport through cell membranes, a process essential to all living organisms.

Everyone is welcome. Faculty, students, and technical staff across the natural and medical sciences are encouraged to attend

Also on October 23, professor Agre will give the public H. C. Andersen Academy Annual Lecture entitled
The Joys and Tears of a Life in Science, SDU Odense Campus, Aud. 45, at 3pm