

## Partner 4

### Professor Christian Aalkjær

#### Contact Information:

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#### Tabular CV Year

1973-1981

1981-1989

1981-1987

1987-1997

1997-present

1985-1997

#### Achievements

M.D., Aarhus University, Denmark

Doctor of Medical Sciences, Aarhus University, Denmark

Assistant professor (Biophysics), Aarhus University

Associate Professor (Pharmacology), Aarhus University

Professor (Vascular research), Aarhus University

Postdoctoral visits at Leicester University, UK, Imperial College, London, UK, Yale University, New Haven, USA

#### 5 Selected Representative Publications

Choi I, **Aalkjær C**, Boulpaep EL, Boron WF: An electroneutral sodium/bicarbonate cotransporter NBCn1 and associated sodium channel. *Nature* 2000;405:571-575

Peng HL, Matchkov V, Ivarsen A, **Aalkjær C**, Nilsson H. Hypothesis for the initiation of vasomotion. *Circulation Research*. 2001;88:810-815.

Boedtker E, Praetorius J, **Aalkjær C**. NBCn1 (slc4a7) mediates the Na<sup>+</sup>-dependent bicarbonate transport important for regulation of intracellular pH in mouse vascular smooth muscle cells. *Circ Res*. 2006, 98:515-523

Matchkov VV, Gustafsson H, Rahman A, Boedtker DMB, Gorintin S, Hansen AK, Bouzinova EV, Praetorius H, **Aalkjær C**, Nilsson H. Interaction between Na<sup>+</sup>/K<sup>+</sup>-pump and Na<sup>+</sup>/Ca<sup>2+</sup>-exchanger modulates intercellular communication. *Circ Res* 2007;100:1026-1035.

Matchkov VV, Larsen P, Bouzinova EV, Rojek A, Boedtker DB, Golubinskaya V, Pedersen FS, **Aalkjær C**, Nilsson H. Bestrophin-3 (vitelliform macular dystrophy 2-like 3 protein) is essential for the cGMP-dependent calcium-activated chloride conductance in vascular smooth muscle cells. *Circ Res* 2008;103:864-872