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## Employments

### Adjunkt

Nyre- og Karforskning

Københavns Universitet

København N.

31 dec. 2014 → nu

### Adjunkt

Nyre- og Karforskning

Københavns Universitet

København N.

1 jan. 2015 → nu

### Postdoc

Neuronal Signalling

Københavns Universitet

København N., Danmark

1 sep. 2015 → 3 maj 2017

### Adjunkt

Molecular and Translational Pharmacology

Københavns Universitet

København N.

1 jul. 2019 → 3 apr. 2021

### Reservelæge i introduktionsstilling

Copenhagen University Hospital - Rigshospitalet

København, Danmark

1 nov. 2015 → 31 okt. 2017

### KBU

1 feb. 2013 → 31 jan. 2014

### Post Doc stipendiat

Aarhus Universitet, Institut for Biomedicin

Århus, Danmark

1 jul. 2012 → 31 dec. 2014

### phd-stipendiat

Aarhus Universitet, Institut for Biomedicin

Århus, Danmark

1 feb. 2009 → 1 apr. 2012

## Publikationer

### **A Vasopressin-Induced Change in Prostaglandin Receptor Subtype Expression Explains the Differential Effect of PGE<sub>2</sub> on AQP2 Expression**

Deen, P. M. T., Boone, M., Schweer, H., Olesen, Emma Tina Bisgaard, Carmone, C., Wetzels, J. F. M., Fenton, R. A. & Kortenoeven, M. L. A., 2022, I: *Frontiers in Physiology*. 12, 13 s., 787598.

### **Aquaporin 2 regulation: implications for water balance and polycystic kidney diseases**

Olesen, Emma Tina Bisgaard & Fenton, R. A., 2021, I: *Nature Reviews Nephrology*. 17, s. 765–781

### **Distinct Roles of Extracellular Domains in the Epstein-Barr Virus-Encoded BILF1 Receptor for Signaling and Major Histocompatibility Complex Class I Downregulation**

Fares, S., Spiess, Katja, Olesen, Emma Tina Bisgaard, Zuo, J., Jackson, S., Kledal, T. N., Wills, M. R. & Rosenkilde, Mette, 2019, I: *mBio*. 10, 1, e01707-18.

### **Rapid Aldosterone-Mediated Signaling in the DCT Increases Activity of the Thiazide-Sensitive NaCl Cotransporter**

Cheng, L., Poulsen, S. B., Wu, Q., Esteva-Font, C., Olesen, Emma Tina Bisgaard, Peng, L., Olde, B., Leeb-Lundberg, L. M. F., Pisitkun, T., Rieg, T., Dimke, H. & Fenton, R. A., 2019, I: *Journal of the American Society of Nephrology*. 30, 8, s. 1453-1469

### **The Gβγ-subunit interacts directly with aquaporin-2 (AQP2) and regulates its membrane targeting**

Olesen, Emma Tina Bisgaard, Poulsen, S. B., Rosenkilde, Mette, Sørensen, Charlotte Mehlin & Fenton, R. A., 2018.

### **Acute Aldosterone-mediated Signaling Networks in Distal Convolved Tubules**

Cheng, L., Wu, Q., Olesen, Emma Tina Bisgaard, Peng, L., Pisitkun, T. & Fenton, R., 2017, I: *F A S E B Journal*. 31, S1, 1 s., 857.10.

### **Aquaporin-2 membrane targeting: still a conundrum**

Olesen, Emma Tina Bisgaard & Fenton, R. A., 2017, I: *American Journal of Physiology: Renal Physiology*. 312, 4, s. F744-F747

### **The Vasopressin Type-2 Receptor and Prostaglandin Receptors EP2 and EP4 can Increase Aquaporin-2 Plasma Membrane Targeting Through a cAMP Independent Pathway**

Olesen, Emma Tina Bisgaard, Moeller, H. B., Assentoft, M., MacAulay, Nanna & Fenton, R. A., 1 nov. 2016, I: *American Journal of Physiology: Renal Physiology*. 311, 5, s. F935-F944 10 s.

### **Gβγ Signaling Regulates Aquaporin-2 Trafficking and Urinary Concentration**

Olesen, Emma Tina Bisgaard, Poulsen, S. B., MacAulay, Nanna, Rieg, T. & Fenton, R. A., apr. 2016, I: *F A S E B Journal*. 30, S1

### **Renal Aquaporins in Health and Disease**

Kortenoeven, M. L. A., Olesen, Emma Tina Bisgaard & Fenton, R. A., 2016, *Ion Channels and Transporters of Epithelia in Health and Disease*. Springer, s. 803-854 52 s. (Physiology in Health and Disease).

### **Use of Genetic Models to Study the Urinary Concentrating Mechanism**

Olesen, Emma Tina Bisgaard, Kortenoeven, M. L. A. & Fenton, R. A., 2015, *Sodium and Water Homeostasis*. Hyndman, K. A. & Pannabecker, T. L. (red.). Springer, s. 43-72 30 s. (Physiology in Health and Disease).

### **AQP4 plasma membrane trafficking or channel gating is not significantly modulated by phosphorylation at COOH-terminal serine residues**

Assentoft, M., Larsen, B. R., Olesen, Emma Tina Bisgaard, Fenton, R. A. & MacAulay, Nanna, 15 nov. 2014, I: *American Journal of Physiology: Cell Physiology*. 307, 10, s. C957-C965 9 s.

**Prostaglandin receptor EP2 and EP4 mediated Aquaporin-2 membrane accumulation does not depend on cAMP**  
Olesen, Emma Tina Bisgaard & Fenton, R. A., apr. 2013, I: F A S E B Journal.

**Is There a Role for PGE2 in Urinary Concentration?**

Olesen, Emma Tina Bisgaard & Fenton, R. A., feb. 2013, I: Journal of the American Society of Nephrology : JASN. 24, 2, s. 169-178 9 s.

**Prostaglandin receptor EP4 induces transient membrane targeting of aquaporin-2 through a novel intracellular signaling pathway**

Olesen, Emma Tina Bisgaard & Fenton, R. A., apr. 2012, I: F A S E B Journal.

**Vasopressin-independent targeting of aquaporin-2 by selective E-prostanoid receptor agonists alleviates nephrogenic diabetes insipidus.**

Olesen, Emma Tina Bisgaard, Rützler, M., Moeller, H. B., Praetorius, H. A. & Fenton, R. A., 2 aug. 2011, I: Proceedings of the National Academy of Sciences of the United States of America. 108(31), s. 12949-54 5 s.

**Regulation of the water channel aquaporin-2 by posttranslational modification.**

Moeller, H. B., Olesen, Emma Tina Bisgaard & Fenton, R. A., maj 2011, I: American Journal of Physiology: Renal Physiology. s. F1062-73 10 s.

**Selective E-prostanoid receptor agonists mediate phosphorylation of aquaporin-2 in vitro and ex vivo**

Olesen, Emma Tina Bisgaard, Rützler, M. & Fenton, R. A., apr. 2011, I: F A S E B Journal.

**Vasopressin independent trafficking of aquaporin-2 by prostaglandin E2**

Olesen, Emma Tina Bisgaard, Moeller, H. B., Nielsen, S., Frøkiær, J., Praetorius, H. A. & Fenton, R. A., 2010, I: F A S E B Journal.

**Rapid and segmental specific dysregulation of AQP2, S256-pAQP2 and renal sodium transporters in rats with LPS-induced endotoxaemia.**

Olesen, Emma Tina Bisgaard, de Seigneux, S., Wang, G., Sophie Constantin, L., Frøkiær, J., Kwon, T. & Nielsen, S., 24 aug. 2009, I: Nephrology, Dialysis, Transplantation. s. 2338-49

**Long-term aldosterone treatment induces decreased apical but increased basolateral expression of AQP2 in CCD of rat kidney.**

de Seigneux, S., Nielsen, J., Olesen, Emma Tina Bisgaard, Dimke, H. A., Kwon, T., Frøkiær, J. & Nielsen, S., jul. 2007, I: American Journal of Physiology: Renal Physiology.

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