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## Employment

### Tenure Track Assistant Professor

Neuronal Signalling

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1 Sep 2013 → nu

## Research outputs

### **PV interneurons evoke astrocytic Ca<sup>2+</sup> responses in awake mice, which contributes to neurovascular coupling.**

Krogsgaard, A., Sperling, L., Dahlqvist, M., Thomsen, Kirsten Joan, Vydmantaitė, G., Li, Fangyuan, Thunemann, M., Lauritzen, Martin & Lind, Barbara Lykke, 2023, In: *Glia*. 71, 8, 17 p.

### **Specialized astrocytes mediate glutamatergic gliotransmission in the CNS**

de Ceglia, R., Ledonne, A., Litvin, D. G., Lind, Barbara Lykke, Carriero, G., Latagliata, E. C., Bindocci, E., Di Castro, M. A., Savtchouk, I., Vitali, I., Ranjak, A., Congiu, M., Canonica, T., Wisden, W., Harris, K., Mameli, M., Mercuri, N., Telley, L. & Volterra, A., 2023, In: *Nature*. 622, p. 120-129 10 p.

### **Spontaneous astrocytic Ca<sup>2+</sup> activity abounds in electrically suppressed ischemic penumbra of aged mice**

Fordsmann, J. C., Murmu, R. P., Cai, Changsi, Brazhe, A., Thomsen, Kirsten Joan, Zambach, S. A., wbh615, wbh615, Lind, Barbara Lykke & Lauritzen, Martin, 2019, In: *Glia*. 67, 1, p. 37-52 16 p.

### **Fast Ca<sup>2+</sup> responses in astrocyte end-feet and neurovascular coupling in mice**

Lind, Barbara Lykke, Jessen, S. B., Lønstrup, M., Joséphine, C., Bonvento, G. & Lauritzen, Martin, 2018, In: *Glia*. 66, 2, p. 348-358 11 p.

### **Spinal dorsal horn astrocytes release GABA in response to synaptic activation**

Christensen, R. K., Delgado-Lezama, R., Russo, R. E., Lind, Barbara Lykke, Alcocer, E. L., Rath, Martin Fredensborg, Fabbiani, G., Schmitt, Nicole, Lauritzen, Martin, Petersen, A. V., Carlsen, Eva Maria Meier & Perrier, Jean-Francois Marie, 2018, In: *The Journal of Physiology*. 596, 20, p. 4983-4994 12 p.

### **A critical role for astrocytes in hypercapnic vasodilation in brain**

Howarth, C., Sutherland, B. A., Choi, H. B., Martin, C., Lind, Barbara Lykke, Khenouf, Lila, LeDue, J. M., Pakan, J. M. P., Ko, R. W., Ellis-Davies, G. C. R., Lauritzen, Martin, Sibson, N. R., Buchan, A. M. & MacVicar, B. A., 2017, In: *The Journal of Neuroscience*. 37, 9, p. 2403-2414 12 p.

### **Interneuron Deficit Associates Attenuated Network Synchronization to Mismatch of Energy Supply and Demand in Aging Mouse Brains**

Jessen, S. B., Mathiesen, C., Lind, Barbara Lykke & Lauritzen, Martin, 2017, In: *Cerebral Cortex*. 27, 1, p. 646-659

### **Activity-Dependent Calcium, Oxygen, and Vascular Responses in a Mouse Model of Familial Hemiplegic Migraine Type 1**

Khenouf, Lila, Gesslein, B., Lind, Barbara Lykke, van den Maagdenberg, A. M. J. M. & Lauritzen, Martin, Aug 2016, In: *Annals of Neurology*. 80, 2, p. 219-232

**GABA<sub>A</sub> Receptor-Mediated Bidirectional Control of Synaptic Activity, Intracellular Ca<sup>2+</sup>, Cerebral Blood Flow, and Oxygen Consumption in Mouse Somatosensory Cortex In Vivo**

Jessen, S. B., Brazhe, A., Lind, Barbara Lykke, Mathiesen, C., Thomsen, K., Jensen, K. & Lauritzen, Martin, 2015, In: Cerebral Cortex. 25, 9, p. 2594-2609 16 p.

**Multiscale vision model for event detection and reconstruction in two-photon imaging data**

Brazhe, A., Mathiesen, C., Lind, Barbara Lykke, Rubin, A. & Lauritzen, Martin, Jul 2014, In: Neurophotonics. 1, 1, 011012.

**Rapid stimulus-evoked astrocyte Ca<sup>2+</sup> elevations and hemodynamic responses in mouse somatosensory cortex in vivo**

Lind, Barbara Lykke, Brazhe, A., Jessen, S. B., Tan, F. C. C. & Lauritzen, Martin, 2013, In: Proceedings of the National Academy of Sciences of the United States of America. 110, 48, p. E4678–E4687 10 p.