



## Curriculum Vitae

### Personal information Emelie Bergman Perland

#### Work experience

---

1. Employer: Swedish Medical products agency
  - Start date: 102019
  - End date:
  - Position: assessor of product information
  - Activities: I am assessing the product information.
  - Country: Sweden
2. Employer: Double bond pharmaceutical
  - Start date: 112017
  - End date: 092019
  - Position: Director of preclinical studies
  - Activities: Responsible for the preclinical studies of a glioblastoma treatment still under development. It had not been tested on humans yet.
  - Country: Sweden
3. Employer: Prof. Åsa Mackenzie
  - Start date: 082011
  - End date: 122011
  - Position: Coordinator for Christmas Neuroscience Symposium
  - Activities: Coordinator of an international neuroscience conference at Uppsala University, Uppsala, Sweden.
  - Country: Sweden

#### Education and training

---

1. Subject: Uppsala university
  - Start date: 082012
  - End date: 082017
  - Qualification: PhD
  - Organisation: Doctor of Philosophy, faculty of Medicine, dept. of Neuroscience, unit of Functional pharmacology, Uppsala University Thesis title: Atypical Solute Carriers: Identification, evolutionary conservation, structure and histology of novel membrane\_bound transporters.
  - Country: Sweden
2. Subject: Uppsala University
  - Start date: 082010
  - End date: 062012
  - Qualification: Master degree
  - Organisation: Degree in medical science. Thesis title: Behavioural studies of conditional knock out mice.
  - Country: Sweden
3. Subject: Uppsala University
  - Start date: 082007
  - End date: 062010
  - Qualification: Bachelor degree
  - Organisation: Degree in biomedical science. Thesis title: Enteric stem cells can differentiate into CNS neurons and glia. The degree project was performed at Syddansk Universitet, Odense.
  - Country: Sweden

#### Additional information

---

##### Publications

PhD thesis 1. Perland, E. 2017. Atypical Solute Carriers. Identification, evolutionary conservation, structure and histology of novel membrane\_bound transporters. Medicinska fakulteten, Uppsala universitet. ISBN 978\_91\_513\_0015\_3. Peer\_reviewed review article 1. Perland E, Fredriksson R. Classification Systems of Secondary Active Transporters. Trends in pharmacological sciences. 2017;38(3):305\_15. Epub 2016/12/13. doi: 10.1016/j.tips.2016.11.008. PubMed PMID: 27939446. Peer\_reviewed scientific articles 1. Perland, E., Lekholm, E., Eriksson, M.M., Bagchi, S., Arapi, V., and Fredriksson, R. (2016). The putative SLC transporters Mfsd5 and Mfsd11 are abundantly expressed in the mouse brain and have a potential role in energy homeostasis. PLoS One 11(6), e0156912. DOI: 10.1371/journal.pone.0156912. 2. Perland, E.\*, Hellsten, S.V.\*, Lekholm, E., Eriksson, M.M., Arapi, V., and Fredriksson, R. (2017). The novel membranebound proteins MFSD1 and MFSD3 are putative SLC transporters affected by altered nutrient intake. Journal of Molecular Neuroscience 61(2), 199\_214. DOI: 10.1007/s12031\_016\_0867\_8. 3. Perland, E., Hellsten, S.V., Schweizer, N., Arapi, V., Rezayee, F., Bushra, M., and Fredriksson, R. (2017). Structural prediction of two novel human atypical SLC transporters, MFSD4A and MFSD9, and their neuroanatomical distribution in mice. PLoS One 12(10):e0186325. doi: 10.1371/journal.pone.0186325 4. Perland, E., Bagchi, S., Klaesson, A., and Fredriksson, R. (Forthcoming Aug. 2017). Characteristics of 29 novel atypical SLCs of MFS type: evolutionary conservation, predicted structure and neuronal co-expression. Open Biology 7(8), DOI: 10.1098/rsob.170142 5. Lekholm, E., Perland, E., Eriksson, M., Hellsten, S., Lindberg, F., Rostami, J., et al. (2017). Putative membrane\_bound transporters MFSD14A and MFSD14B are neuronal and affected by nutrient availability. Frontiers in Molecular Neuroscience 10(11). DOI: 10.3389/fnmol.2017.00011. 6. Hellsten, S.V., Eriksson, M.M., Lekholm, E., Arapi, V., Perland, E., and Fredriksson, R. (2017). The gene expression of the neuronal protein, SLC38A9, changes in mouse brain after in vivo starvation and high\_fat diet. PLoS One 12(2), e0172917. DOI: 10.1371/journal.pone.0172917. 7. Wiemerslage, L., Islam, R., van der Kamp, C., Cao, H., Olivo, G.,

Ence\_Eriksson, F., Castillo, S., Larsen, A. L., Bandstein, M., Dahlberg, L. S., Perland, E., et al. (2017). A DNA methylation site within the KLF13 gene is associated with orexigenic processes based on neural responses and ghrelin levels. *Int J Obes (Lond)*. 41(6), 990994 DOI: 10.1038/ijo.2017.43. 8. Williams, M.J., Perland, E., Eriksson, M.M., Carlsson, J., Erlandsson, D., Laan, L., et al. (2016). Recurrent sleep fragmentation induces insulin and neuroprotective mechanisms in middle\_aged flies. *Frontiers in Aging Neuroscience* 8(180). DOI: 10.3389/fnagi.2016.00180. 9. Roshanbin, S., Lindberg, F.A., Lekholm, E., Eriksson, M.M., Perland, E., Ahlund, J., et al. (2016). Histological characterization of orphan transporter MCT14 (SLC16A14) shows abundant expression in mouse CNS and kidney. *BMC Neurosci* 17(1), 43. DOI: 10.1186/s12868\_016\_0274\_7. 10. Williams, M.J., Goergen, P., Rajendran, J., Zheleznyakova, G., Hagglund, M.G., Perland, E., et al. (2014). Obesity\_linked homologues TfAP\_2 and Twz establish meal frequency in *Drosophila melanogaster*. *PLoS Genet* 10(9), e1004499. DOI: 10.1371/journal.pgen.1004499. 11. Ceder MM, Lekholm E, Hellsten SV, Perland E, Fredriksson R. The Neuronal and Peripheral Expressed Membrane\_Bound UNC93A Respond to Nutrient Availability in Mice. *Front Mol Neurosci*. 2017 Oct 31;10:351. doi: 10.3389/fnmol.2017.00351. 12. Bagchi S, Perland E, Hosseini K, Lundgren J, Al\_Walail N, Kheder S, Fredriksson R. Probable role for major facilitator superfamily domain containing 6 (MFSD6) in the brain during variable energy consumption. *Int J Neurosci*. 2020 May;130(5):476-489. doi: 10.1080/00207454.2019.1694020. 13. Ceder MM, Aggarwal T, Hosseini K, Maturi V, Patil S, Perland E, Williams MJ, Fredriksson R. CG4928 Is Vital for Renal Function in Fruit Flies and Membrane Potential in Cells: A First In\_Depth Characterization of the Putative Solute Carrier UNC93A. *Front Cell Dev Biol*. 2020 Oct 14;8:580291. doi: 10.3389/fcell.2020.580291. 14. Ceder MM, Lindberg FA, Perland E, Williams MJ, Fredriksson R. The Fly Homologue of MFSD11 Is Possibly Linked to Nutrient Homeostasis and Has a Potential Role in Locomotion: A First Characterization of the Atypical Solute Carrier CG18549 in *Drosophila melanogaster*. *Insects*. 2021 Nov 13;12(11):1024. doi: 10.3390/insects12111024. PMID: 34821824; PMCID: PMC8621210. Dahlén E, Bergman Perland E, Maria Bergsten E, Arthurson V, Kimland E. Försäljningen av melatonin ökar [The use of melatonin continues to increase - rational prescribing and follow-up is important]. *Lakartidningen*. 2025 Mar 21;122:24073. Swedish. PMID: 40135269 .

## Projects

My research entailed characterisation of novel membrane transporters.

## Memberships

## Other Relevant Information