PUBLICATIONS: (# corresponding author; \* shared authorship)

Citations: 3134. Average impact factor: 19,67 H-index: 15

**Marklund, U**. *Diversity, development and immunoregulation of enteric neurons.*

**Nat Rev Gastroenterol Hepatol** (impact factor 46.802) 2022 Feb;19(2):85-86.

PMID: 34773107

Oosterveen T, Garcao P, Garcia Moles E, Soleilhavoup C, Travaglio M, Sheraz S, Peltrini R, Patrick K, Labas V, Combes-Soia L, **Marklund U**, Hohenstein P and Panman L.

*Pluripotent stem cell derived dopaminergic subpopulations model the selective neuron degeneration in Parkinson’s disease.* 2021

**Stem Cell Reports** 16(11):2718-2735. (Impact Factor: 7,765) PMID: 34678205

Morarach K, Mikhailova A, Knoflach V, Memic F, Kumar R, Li W, Ernfors P, **Marklund U**.

*Diversification of molecularly defined myenteric neuron classes revealed by single cell RNA-sequencing.* 2021

**Nature Neuroscience** (Impact Factor: 20.071), vol 24 (1) 34-46. PMID: 33288908

**Featured on News and Views “Revealing the complexity of the gut’s brain”. PMID: 33303973**

Le T-L, Galmiche L, Levy J, Suwannarat P, Hellebrekers D.M.E.I., Morarach K, Boismoreau F, Theunissen T.E.J., Lefebvre M, PeletA, Martinovic J, Gelot A, Guimiot F, Calleroz A, Gitiaux C, Hully M, Goulet O, Chardot C, Drunat S, Capri Y, Bole-Feysot C, Nitschké P, Whalen S, Mouthon L, Babcock H.E, Hofstra R,  [de Coo](https://pubmed.ncbi.nlm.nih.gov/?term=de+Coo+IFM&cauthor_id=31488384) I.F.M, Tabet A-C, Molina T, Keren B, Brooks A,Smeets H.J.M, **Marklund U**, Gordon C.T, Lyonnet S, Amiel J#, Bondurand N#. *Dysregulation of the NRG1-ERBB pathway causes a developmental disorder with gastrointestinal dysmotility in humans.*

***The Journal of clinical investigation*** 2021 131;6 PMID: 33497358 (Impact factor: 11,864).

Kastriti M.E, Kameneva P, Kamenev D, Dyachuk V, Furlan A, Hampl M, Memic F, **Marklund U**, Lallemend F, Hadjab S, Calvo-Enrique L, Fried K, Ernfors P, Adameyko I.

*Schwann cell precursors generate the majority of chromaffin cells in Zuckerkandl organ and some sympathetic neurons in paraganglia.* **Frontiers in Molecular Neuroscience** (Impact Factor: 3,720) Citations: 2. 2019 Jan 25; 12:6.

Zeisel A, Hochgerner H, Lönnerberg P, Johnsson A, Memic F, van der Zwan J, Häring M, Braun E, Borm L, La Manno G, Codeluppi S, Furlan A, Skene N, Harris KD, Hjerling- Leffler J, Arenas E, Ernfors P, **Marklund U**, & Linnarsson S. *Molecular architecture of the mouse nervous system. 2018* **Cell** 174(4):999-1014. (Impact Factor 36.216) Citations: 11

Kaucka M, Tesarova M, Peterson J, Kaiser J, Szarowska B, Pan L, Hovorakova M, Zikmund T, Spitz F, Matise MP, Wang H, **Marklund U**, Abdo H, Ernfors P, Maire P, Wurmser M, Chagin AS, Fried K, Adameyko I. *Signals from the brain and olfactory epithelium control shaping of the mammalian nasal capsule cartilage.* **Elife** (Impact Factor: 7.551) 2018 Jun 13;7. Citations: 5

Memic F\*, Knoflach V\*, Morarach K, Sadler R, Laranjeira C, Hjerling-Leffler J, Sundström E, Pachnis V, **Marklund U#.** *Transcription and Signaling Regulators in Developing Neuronal Subtypes of Mouse and Human Enteric Nervous System. 2018* **Gastroenterology** *154:624-636****.* U. Marklund is corresponding author.** (Impact Factor: 19,23). Citations: 10. ***This paper is featured on the cover and Editorial Highlight “Development of the Enteric Nervous System: A genetic guide to the perplexed.” PMID: 29337151.***

Furlan A, Dyachuk V, Kastriti M.E, Abdo H, Hadjab S, Chontorotzea T, Akkuratova N, Usoskin D, Kamenev D, Petersen J, Sunadome K, Memic F, **Marklund U**, Fried K, Topilko P, Lallemend F, Kharchencko P.V, Ernfors P, Adameyko I. *Multipotent Peripheral Glial Cells Generate Neuroendocrine Cells of the Adrenal Medulla.* (2017) **Science** 357 (6346) 3753. (Impact factor: 41,037). Citations: 50.

Memic F, Knoflach V, Sadler R, Tegerstedt G, Sundström E, Guillemot F, Pachnis V and **Marklund U#.** *Ascl1 is required for the development of specific neuronal subtypes in the enteric nervous system*. (2016) **J. Neurosci.** April 36(15) 4339-50. (Impact factor: 6,074). Citations: 9.

Dyachuk V, Furlan A, Gioenco M, Kaukua N, Konstantinidou C, Pachnis V, Memic F, **Marklund U**, Müller T, Birchmeier C, Fried K, Ernfors P, Adameyko I. *Parasympathetic neurons originate from nerve-associated peripheral glial progenitors.* (2014) **Science.** Jul 4;345 (6192):82-7. (Impact factor: 41,037) Citations: 117

**Marklund U#**, Alekseenko Z\*, Andersson E\*, Westgren M, Falci S, Perlmann T, Sundström E and Ericson J. *Detailed expression analysis of regulatory genes in the early developing human neural tube.* (2014) **Stem Cells and Development.** Jan 23(1):5-15. (impact factor: 3,147) Citations: 11.

Lek M\*, Dias JM\*, **Marklund U**, Uhde CW, Kurdija S, Lei Q, Sussel L, Rubenstein JL, Matise MP, Arnold HH, Jessell TM, Ericson J#. *A homedomain feedback circuit underlies step-function interpretation of a Shh morphogen gradient during ventral neural patterning.* (2010) **Development,** Dec 137(23) 4051-60. (impact factor: 5.763) Citations: 58

Hansson E, Lanner F, Das D, Mutvei A, **Marklund U**, Ericson J, Farnebo F, Stumm G, Stenmark H, Andersson ER, Lendahl U#. *Control of Notch- ligand endocytosis by ligand-receptor interaction. (2010)* **J Cell Sci***. Sep1; 123(pt17):2931-42.*(impact factor:4.517) Citations: 60

**Marklund U**, Hansson E, Hrabe de Angelis M, Przemeck G, Sundström E, LendahlU#, Muhr J#, and Ericson J#. *Domain- specific control of neurogenesis achieved through the patterned regulation of Notch ligand expression. (2010)***Development** Feb; 137(3);437-4. (impact factor: 5.763) Citations: 49

Friling S\*, Andersson E\*, Thompson LH, Jönsson ME, Hebsgaard JB, Nanou E, Alekseenko Z, **Marklund U,** Kjellander S, Volakakis N, Hovatta O, El Manira A, Björklund A, Perlmann T and Ericson, J#. *Efficient production of mesencephalic dopamine neurons by Lmx1a expression in embryonic stem cells.* (2009) **PNAS** May 5; 106(18):7613-8. (impact factor: 9.580) Citations: 199

Andersson E\*, **Tryggvason (Marklund) U\*,** Deng Q\*, Friling S, Alekseenko Z, Robert B, Perlmann T and Ericson J#*. Identification of intrinsic determinants of midbrain dopamine neurons.* (2006) **Cell** Jan 27; 124(2):392-405. (impact factor: 36.216). Citations: 553. **Shared first authorship.**

Ding Y, **Marklund U**, Yuan W, Yin J, Wegman L, Ericson J, Deneris E, Johnson R and Chen Z#. *Lmx1b is essential for the development of serotonergic neurons.* (2003) **Nature Neuroscience** 6, 933-938. (impact factor: 21.126) Citations: 249