

**CURRICULUM VITAE** Per Uhlén, MS, PhD

**Born** 5 July 1969 in Uppsala, Sweden  
**Marital status** Married with two children (twins born in 2012)

**CURRENT POSITION** Professor

**AFFILIATION** Karolinska Institutet  
Department of Medical Biochemistry and Biophysics (MBB)

**Visiting address** Biomedicum (floor 6, office C0669), Solnavägen 9  
**Mailing address** Karolinska Institutet, Solnavägen 9 (6C), SE-171 77 Stockholm, Sweden  
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## EDUCATION

### PhD - Graduate

2002 May 13 Karolinska Institutet, Stockholm, Sweden  
Doctor of Philosophy (PhD), Supervisors: Dr. Brismar and Dr. Aperia

### MS - Undergraduate

1998 Feb 25 Royal Institute of Technology (KTH), Stockholm, Sweden  
Master of Science in engineering physics (MS), CivIng - Teknisk Fysik

## PROFESSIONAL APPOINTMENTS

2017- Guest Professor: Keio University, Shinanomachi, Tokyo, Japan  
2017- Adjunct Researcher: RIKEN Brain Science Institute, Hirosawa, Wako, Saitama, Japan  
2014- Professor: Dept. of Medical Biochemistry and Biophysics, Karolinska Institutet,  
(Full Professor in Dynamic Imaging of Cell Signaling: 1 October 2014)  
2010 Visiting Professor: Dept. of Pharmacology, Keio University, Shinanomachi, Tokyo, Japan  
2008-2014 Associate Professor: Dept. of Medical Biochemistry and Biophysics, Karolinska Institutet,  
(Docent in Cell Biology: 9 April 2008)  
2006-2008 Assistant Professor: Dept. of Medical Biochemistry and Biophysics, Karolinska Institutet  
2004 Postdoc / Visiting Researcher: Marine Biological Laboratory (MBL), Woods Hole, MA, USA  
(Dr. Ehrlich's lab, The Neuroscience Institute)  
2003-2005 Postdoctoral Fellow: Yale University, New Haven, CT, USA  
(Dr. Ehrlich's lab, Dept. of Pharmacology/Cellular & Molecular Physiology)

## FELLOWSHIPS AND AWARDS

2011 External Research Assessment (ERA 2010) at Karolinska Institutet – Ranked as *Excellent*  
2010 Senior Researcher Award, the Swedish Research Council (VR)  
2009 Research Fellow Award, Knut and Alice Wallenberg Foundation (KAW)  
2007 Max and Edit Follin's Medical Research Prize  
2006 Assistant Professor Award, the Swedish Research Council (VR)  
2006 Research Fellowship Award, the Swedish Society for Medical Research (SSMF)  
2005 Young Investigator Award, the Karolinska Institutet's Foundation  
2004 Leading Bio-Scientists of the Next Decade, Roche  
2003 Postdoctoral Fellowship Award, the Swedish Research Council (VR)

**RESEARCH GROUP****Postdoctoral scientists**

Songbai Zhang, MD PhD (2008-), Shigeaki Kanatani, PhD (2012-), Lauri Louhivuori, PhD (2016-)

**Main-supervisor for current PhD students**

Ivar Dehnisch (reg: 30 May 2012, half: 18 May 2017), Dagmara Kaczynska (reg: 11 Sept 2015, half: 24 May 2018), Ibrahim Rayyes (reg: 27 June 2018, half: -)

**FORMER PHD STUDENTS****Main supervisor for former PhD students**

Seth Malmersjö (defense: 12 Dec 2008), Marie Karlsson (defense: 4 Jan 2011), Paola Rebellato (defense: 13 Dec 2013), Erik Smedler (defense: 12 Jun 2017)

**Co-supervisor for former PhD students**

Pedro Ferreira (defense: 7 Dec 2010), Amilcar Reis (defense: 15 Jun 2012), Emma Eklöf Ljunggren (defense: 13 Dec 2012), Michalina Lewicka (defense: 10 Dec 2013), Staffan Nyström (defense: 5 June 2014), Sabine Haupt (defense: 12 Dec 2014), Jonas Fuks (defense: 21 Nov 2014), Shaimaa Abdelhady (defense: 13 Feb 2015), Salvatore Magara (defense: 9 June 2015), Anna Omelyanenko (defense: 20 May 2016), Teresa Fernandez Zafra (defense: 24 Nov 2017), David Larsson (defense: 7 Dec 2017), Sachie Kanatani (defense: 15 Dec 2017),

**CO-SUPERVISOR FOR CURRENT PHD STUDENTS**

Arash Hellysaz (reg: 6 Dec 2010, half: 14 Feb 2014),

**ALUMNI**

Noboyuki Takana, MD PhD (2015-2018), Erik Smedler (PhD 2010-2017), Manuel Varas-Godoy (postdoc 2013-2015), Paola Rebellato (PhD 2008-2013), Cristian Ibarra (postdoc 2009-2013), Simone Codeluppi (postdoc 2011-2013), Nicolas Fritz (postdoc 2006-2012), Marie Karlsson (PhD 2006-2011), Seth Malmersjö (PhD 2006-2009), Katsutoshi Nakahata (postdoc 2008-2009), Hiromi Hiyoshi (postdoc 2006-2009), Luc Desfrere (postdoc 2005-2006)

**GRANTS**

Swedish Research Council (VR), Swedish Cancer Society (CF), Knut and Alice Wallenberg Foundation (KAW), Royal Swedish Academy of Sciences (KVA), Swedish Foundation for Strategic Research (SSF), Hjärnfonden,

**NETWORKS/CENTERS**

CLICK/BIC: Director of Centre for Live Imaging of Cells at Karolinska Institutet [[www.click.ki.se](http://www.click.ki.se)] (2006 - )  
DBRM: Faculty member, Developmental Biology and Regenerative Medicine [[www.dbrm.se](http://www.dbrm.se)] (2006-15)  
EMTRAIN: Work Package 6 – PhD programme in Europe [[www.emtrain.eu](http://www.emtrain.eu)] (2007–14)

**AD HOC REVIEWER FOR SCIENTIFIC JOURNALS**

PNAS, EMBO, Nature Biomed Eng, Nature Methods, Nature Comm, Journal of Clinical Investigations, Science Signaling, Cell Death & Differentiation, Cell Death & Disease, Experimental Cell Research, Stem Cells, Stem Cells & Development, PLoS, Chemical Reviews, BBA, JBC, AJP, BMC,

**COMMISSIONS OF TRUST**

**Scientific evaluations:** Cancer Research UK (2018); SciLifeLab, Sweden (2017, 2018); Wellcome Trust, UK (2016); The Swedish Research Council (Vetenskapsrådet - VR), Sweden (2012); The National Science Foundation (NSF), USA (2009); The Science Foundation – FIRST, Israel (2007);

**Review board member:** International Society for Stem Cell Research, USA (2014); Karolinska Institutet's PhD program – KID, Sweden (2008 - 2011(chair), 2013);

**PUBLICATIONS – Per Uhlén****Bibliometric parameters**

Published papers 69, first/last/corresponding author 27, citations 3504, h-index 29, i10-index 53

**Original published articles** ( \* selected manuscript, † equal contribution, ‡ corresponding author )

1. \* **Uhlén P**†, Laestadius Å†, Jahnukainen T, Söderblom T, Bäckhed F, Celsi G, Brismar H, Normark S, Aperia A, Richter-Dahlfors A "α-haemolysin of Uropathogenic *E.coli* Induces Ca<sup>2+</sup> Oscillations in Renal Epithelial Cells"

*Nature* 405, 6787, 694-697 (2000)

2. Aizman O†, Brismar H†, **Uhlén P**, Zettegren E, Levey A, Forssberg H, Greengard P, Aperia A "Anatomical and Physiological Evidence for D<sub>1</sub> and D<sub>2</sub> Dopamine Receptor Colocalization in Neostriatal Neurons"

*Nature Neuroscience* 3(3), 226-230 (2000)

3. Aizman O†, **Uhlén P**†, Lal M, Brismar H, Aperia A "Ouabain, a Steroid Hormone that Signals with Slow Calcium Oscillations"

*Proc Natl Acad Sci USA* Nov 6;98(23):13420-4 (2001)

4. \* Miyakawa-Naito A†, **Uhlén P**†, Lal M, Aizman O, Mikoshiba K, Brismar H, Zelenin S, Aperia A "Cell Signaling Microdomain with Na,K-ATPase and Inositol 1,4,5-Trisphosphate Receptor Generates Calcium Oscillations"

*J Biol Chem.* Dec 12; 278(50): 50355-61 (2003)

5. **Uhlén P**‡ "Visualization of Na,K-ATPase Interacting Proteins using FRET Technique"

*Ann NY Acad Sci.* Apr;986:514-518 (2003)

6. Johenning FW, Wenk MR, **Uhlén P**, DeGray B, Lee E, DeCamilli P, Ehrlich BE "InsP<sub>3</sub>-Mediated Intracellular Calcium Signaling is Altered by Expression of Synaptojanin-1"

*Biochem J.* Sep 1; 382(Pt 2): 687-94 (2004)

7. \* **Uhlén P**‡ "Spectral Analysis of Calcium Oscillations"

*Science STKE* Nov 09;(258):p115 (2004)

8. Söderblom T, Oxhamre C, Wai SN, **Uhlén P**, Aperia A, Uhlén BE, Richter-Dahlfors A "Effects of the Escherichia coli toxin cytolysin A on mucosal immunostimulation via epithelial Ca<sup>2+</sup> signalling and Toll-like receptor 4"

*Cell Microbiol.* Jun;7(6):779-88 (2005)

9. Estrada M, Espinosa A, Gibson CJ, **Uhlén P**, Jaimovich E "Capacitative Calcium Entry in Testosterone-Induced Intracellular Calcium Oscillations in Myotubes"

*J Endocrinol.* 184, 371-379 (2005)

10. Jacob SN, Choe CU, **Uhlén P**, DeGray B, Yeckel MF, Ehrlich BE "Signaling Micro-Domains Regulate InsP<sub>3</sub>-Mediated Intracellular Calcium Transients in Cultured Neurons"

*J Neuroscience* Mar 16;25(11):2853-64 (2005)

11. Estrada M, **Uhlén P**, Ehrlich BE "Calcium Oscillations Induced by Testosterone Enhance Neurite Outgrowth"

*J Cell Science* Feb 15;119(Pt 4):733-43 (2006)

- 12.\* **Uhlén P**‡, Burch P, Ivins Zito C, Estrada M, Ehrlich BE, Bennett AM “Gain-of-Function/Noonan Syndrome SHP-2/*Ptpn11* Mutants Enhance Calcium Oscillations and Impair NFAT Signaling” *Proc Natl Acad Sci USA* Feb 14;103(7):2160-5 (2006)
13. Kowalewski JM, **Uhlén P**, Kitano H, Brismar H “Modeling the Impact of Store-Operated Ca<sup>2+</sup> Entry on Intracellular Ca<sup>2+</sup> Oscillations” *Math Biosci.* Dec;204(2):232-49 (2006)
14. Zhang S†, Malmersjö S†, Li J, Ando H, Aizman O, **Uhlén P**, Mikoshiba K, Aperia A “Distinct Role of the N-terminal Tail of the Na,K-ATPase Catalytic Subunit as a Signal Transducer” *J Biol Chem.* Aug 4;281(31):21954-62 (2006)
15. Edman L, Mira H, Erices A, Malmersjö S, Andersson E, **Uhlén P**, Arenas E “Alpha-chemokines regulate proliferation, neurogenesis, and dopaminergic differentiation of ventral midbrain precursors and neurospheres” *Stem Cells* Jul;26(7):1891-900 (2008)
16. Norberg E, Gogvadze V, Ott M, Horn M, **Uhlén P**, Orrenius S, Zhivotovsky B “An Increase in Intracellular Ca<sup>2+</sup> is Required for the Activation of Mitochondrial Calpain to Release AIF During Cell Death” *Cell Death Differ.* Dec;15(12):1857-64 (2008)
17. Altamirano F, Oyarce C, Silva P, Toyos M, Wilson C, Lavandero S, **Uhlén P**, Estrada M “Testosterone induces cardiomyocyte hypertrophy through mTOR complex 1 pathway.” *J Endocrinol.* Aug;202(2):299-307 (2009)
- 18.\* Desfrere L†, Karlsson M†, Hiyoshi H†, Malmersjö S, Nanou E, Estrada M, Miyakawa A, Lagercrantz H, El Manira A, Lal M, **Uhlén P**‡ “Na,K-ATPase Signal Transduction Triggers CREB Activation and Dendritic Growth” *Proc Natl Acad Sci USA* Feb 17;106(7):2212-7 (2009)
19. Zheng Y, Vertuani S, Nyström S, Audebert S, Meijer I, Tegnebratt T, Borg JP, **Uhlén P**, Majumdar A, Holmgren L “Angiotensin-Like Protein 1 Controls Endothelial Polarity and Junction Stability During Sprouting Angiogenesis” *Circulation Research* Jul 31;105(3):260-70 (2009)
20. Malmersjö S, Liste I, Dyachok O, Tengholm A, Arenas E‡, **Uhlén P**‡ “Ca<sup>2+</sup> and cAMP Signaling in Human Embryonic Stem Cell-Derived Dopamine Neurons” *Stem Cells Dev.* Sep;19(9):1355-64 (2010)
- 21.\* **Uhlén P**‡, Fritz N “Biochemistry of Calcium Oscillations” *Biochem Biophys Res Commun.* May 21;396(1):28-32 (2010)
22. Usoskin D, Zilberter M, Linnarsson S, Hjerling-Leffler J, **Uhlén P**, Harkany T, Ernfors P “En masse in vitro functional profiling of the axonal mechanosensitivity of sensory neurons” *Proc Natl Acad Sci USA* Sep 14;107(37):16336-1634 (2010)
23. Norberg E, Karlsson M, Korenovska O, Szydlowski S, Silberberg G, **Uhlén P**, Orrenius S, Zhivotovsky B “Critical role for hyperpolarization-activated cyclic nucleotide-gated channel 2 in the AIF-mediated apoptosis” *EMBO journal* Nov 17;29(22):3869-3878 (2010)

24. Andersson T, Duckworth JK, Fritz N, Södersten E, **Uhlén P**, Hermanson O “Noggin and Wnt3a enable BMP4-dependent differentiation of telencephalic stem cells into GluR-agonist responsive neurons”  
*Mol Cell Neurosci.* May;47(1):10-18 (2011)
25. Zhang S, Fritz N, Ibarra C, **Uhlén P** “Inositol 1,4,5-Trisphosphate Receptor Subtype-Specific Regulation of Calcium Oscillations”  
*Neurochem Res.* Jul;36(7):1175-1185 (2011)
26. Baczyk D, Kingdom JCP, **Uhlén P** “Calcium Signaling in Placenta”  
*Cell Calcium* May;49(5):350-356 (2011)
27. Zhao J, Liu T, Jin S, Wang X, Qu M, **Uhlén P**, Tomilin N, Shupliakov O, Lendahl U, and Nistér M “Human MIEF1 recruits Drp1 to mitochondrial outer membranes and promotes mitochondrial fusion rather than fission”  
*EMBO journal* Jun 24;30(14):2762-78 (2011)
28. Ferreira P, Holmgren G, Veiga MI, **Uhlén P**, Kaneko A, Gil JP “PfMDR1: mechanisms of transport modulation by functional polymorphisms”  
*PLoS ONE* 6(9):e23875 (2011)
29. Tofighi R, Wan Ibrahim WN, Rebellato P, Andersson PL, **Uhlén P**, Ceccatelli S “Non-dioxin like polychlorinated biphenyls interfere with neuronal differentiation of embryonic neural stem cells”  
*Toxicol Sci.* Nov;124(1):192-201 (2011)
30. Lundgren TK, Nakahata K, Fritz N, Rebellato P, Zhang S, **Uhlén P** “RET PLC $\gamma$  Phosphotyrosine Binding Domain Regulates Ca<sup>2+</sup> Signaling and Neocortical Neuronal Migration”  
*PLoS ONE* 7(2):e31258 (2012)
31. Eklöf-Ljunggren E, Haupt S, Ausborn J, Dehnisch I, **Uhlén P**, Higashijima SI, El Manira A "Origin of excitation underlying locomotion in the spinal circuit of zebrafish"  
*Proc Natl Acad Sci USA* Apr 3;109(14):5511-6 (2012)
32. Kitambi SS, Nilsson ES, Sekyrova P, Ibarra C, Tekeoh GN, Andäng M, Ernfors P, **Uhlén P** “Small Molecule Screening Platform for Assessment of Cardiovascular Toxicity on Adult Zebrafish Heart”  
*BMC Physiol.* Mar 26;12(1):3 (2012)
- 33.\* Hiyoshi H, Abdelhady S, Segerström L, Sveinbjörnsson B, Nuriya M, Lundberg TK, Desfrere L, Miyakawa A, Yasui M, Kogner P, Johnsen JI, Andäng M, **Uhlén P** “Quiescence and  $\gamma$ H2AX in Neuroblastoma are Regulated by Ouabain/Na,K-ATPase”  
*Br J Cancer* May 22;106(11):1807-15 (2012)
34. Gaengel K, Niaudet C, Hagikura K, Siemsen BL, Muhl L, Hofmann JJ, Ebarasi L, Nyström S, Rymo S, Chen LL, Pang MF, Jin Y, Raschperger E, Roswall P, Schulte D, Benedito R, Larsson J, Hellström M, Fuxe J, **Uhlén P**, Adams R, Jakobsson L, Majumdar A, Vestweber D, Uv A, Betsholtz C. “The Sphingosine-1-Phosphate Receptor S1PR1 Restricts Sprouting Angiogenesis by Regulating the Interplay between VE-Cadherin and VEGFR2”  
*Developmental Cell* Sep 11;23(3):587-99 (2012)

35. Ibarra C, Vicencio JM, Estrada M, Lin Y, Rocco P, Rebellato P, Muñoz JP, Garcia-Prieto J, Quest AF, Chiong M, Davidson SM, Bulatovic I, Grinnemo KH, Larsson O, Szabadkai G, **Uhlén P**†, Jaimovich E†, Lavandero S† “Local control of nuclear calcium signaling in cardiac myocytes by perinuclear microdomains of sarcolemmal insulin-like growth factor 1 receptors”  
*Circulation Research* Jan 18;112(2):236-45 (2013)
36. Wan Ibrahim WN, Tofighi R, Onishchenko N, Rebellato P, Bose R, **Uhlén P**, Ceccatelli S “Perfluorooctane sulfonate induces neuronal and oligodendrocytic differentiation in neural stem cells and alters the expression of PPAR $\gamma$  in vitro and in vivo”  
*Toxicol Appl Pharmacol.* May 15;269(1):51-60 (2013)
37. Miyakawa A, Ibarra C, Malmersjö S, Aperia A, Wiklund P, **Uhlén P**† “Intracellular Calcium Release Modulates Polycystin-2 Trafficking”  
*BMC Nephrology* Feb 11;14(1):34 (2013)
- 38.\* Malmersjö S†, Rebellato P†, Smedler E†, Planert H, Kanatani S, Liste I, Nanou E, Sunner H, Abdelhady S, Zhang S, Andäng M, El Manira A, Silberberg G, Arenas E, **Uhlén P**† “Neural Progenitors Organize in Small-World Networks to Promote Cell Proliferation”  
*Proc Natl Acad Sci USA* Apr 16;110(16):E1524-E1532 (2013)
39. Yang S, Edman L, Sánchez-Alcañiz JA, Fritz N, Bonilla S, Hecht J, **Uhlén P**, Pleasure SJ, Villaescusa C, Marín O, Arenas E “Cxcl12/Cxcr4 signaling controls the migration and process orientation of A9-A10 dopaminergic neurons”  
*Development* Nov;140(22):4554-64 (2013)
40. Malmersjö S, Rebellato P, Smedler E, **Uhlén P**† “Small-world networks of spontaneous Ca(2+) activity”  
*Commun Integr Biol.* Jul 1;6(4):e24788 (2013)
41. Bräutigam L, Dahl Ejby Jensen L, Poschmann G, Nyström S, Bannenberg S, Dreij K, Montano S, Aktas O, **Uhlén P**, Stühler K, Cao Y, Holmgren A, Berndt C “Glutaredoxin regulates vascular development by reversible glutathionylation of sirtuin 1”  
*Proc Natl Acad Sci USA* Dec 10;110(50):20057-62 (2013)
- 42.\* Smedler E, **Uhlén P**† “Frequency Decoding of Calcium Oscillations”  
*Biochim Biophys Acta.* Mar;1840(3):964-9 (2014)
43. Zinin N, Adameyko I, Wilhelm M, Fritz N, **Uhlén P**, Ernfors P, Arsenian Henriksson M “MYC Proteins Promote Neuronal Differentiation by Controlling the Mode of Progenitor Cell Division”  
*EMBO Reports* Apr 1;15(4):383-91 (2014)
44. Codeluppi S, Fernandez Zafra T, Sandor K, Kjell J, Liu Q, Abrams M, Olson L, Gray NS, Svensson CI, **Uhlén P** “Interleukin-6 secretion by astrocytes is dynamically regulated by PI3K-mTOR-calcium signaling”  
*PLoS ONE* Mar 25;9(3):e92649 (2014)
45. Hultin S, Zheng Y, Mojallal M, Vertuani S, Gentili C, Balland M, Milloud R, Belting HG, Affolter M, Helker CS, Adams RH, Herzog W, **Uhlen P**, Majumdar A, Holmgren L “AmotL2 links VE-cadherin to contractile actin fibers necessary for aortic lumen expansion”  
*Nature Communication* May 7;5:3743 (2014)

46. Wan M, Söhnlein O, Tang X, van der Does AM, Smedler E, **Uhlén P**, Lindbom L, Agerberth B, Haeggström JZ "Cathelicidin LL-37 induces time-resolved release of LTB4 and TXA2 by human macrophages and triggers eicosanoid generation in vivo"  
*FASEB J* April 15 (2014)
47. Jungebluth P, Haag JC, Sjöqvist S, Gustafsson Y, Rodríguez AB, Del Gaudio C, Bianco A, Dehnisch I, **Uhlén P**, Baiguera S, Lemon G, Ling Lim M, Machiarini P "Tracheal tissue engineering in rats"  
*Nature Protocols* Sep;9(9):2164-2179 (2014)
48. Ibarra C, Vicencio JM, Varas-Godoy M, Jaimovich E, Rothermel BA, **Uhlén P**, Hill JA, Lavandero S "An integrated mechanism of cardiomyocyte nuclear Ca<sup>2+</sup> signaling"  
*J Mol Cell Cardiol.* Jul 2;75C:40-48 (2014)
49. Mojallal M, Zheng Y, Hultin S, Audebert S, van Harn T, Johnson P, Lenander C, Fritz N, Mieth C, Corcoran M, Hallström M, Hartman J, Mazure N, Weide T, Grandér D, Borg J-P, **Uhlén P**, Holmgren L "AmotL2 disrupts apical-basal cell polarity and promotes tumor invasion"  
*Nature Communication* Aug 1;5:4557 (2014)
- 50.\* Smedler E, Malmersjö S, **Uhlén P** "Network Analysis of Time-Lapse Microscopy Recordings"  
*Front Neural Circuits.* Sep 17;8:111 (2014)
51. Bulatovic I, Ibarra C, Österholm C, Wang H, Beltrán-Rodríguez A, Varas-Godoy M, Månsson-Broberg A, **Uhlén P**, Simon A, Grinnemo K-H "Sublethal Caspase Activation Promotes Generation of Cardiomyocytes from Embryonic Stem Cells"  
*PLoS ONE* Mar 12;10(3):e0120176 (2015)
52. **Uhlén P**, Fritz N, Smedler E, Malmersjö S, Kanatani S "Calcium Signaling in Neocortical Development"  
*Dev Neurobiol* Apr;75(4):360-8 (2015)
53. Kanatani S, Honda T, Aramaki M, Hayashi K, Kubo KI, Ishida M, Tanaka DH, Kawauchi T, Sekine K, Kusuzawa S, Kawasaki T, Hirata T, Tabata H, **Uhlén P**, Nakajima K "The COUP-TFII/Neuropilin-2 is a molecular switch steering diencephalon-derived GABAergic neurons in the developing mouse brain"  
*Proc Natl Acad Sci USA* Aug 24. pii: 201420701 (2015)
54. Kanatani S, **Uhlén P**, Barragan A "Infection by *Toxoplasma gondii* Induces Amoeboid-Like Migration of Dendritic Cells in a Three-Dimensional Collagen Matrix"  
*PLoS ONE* Sep 25;10(9):e0139104 (2015)
55. Li S, Fell SM, Surova O, Smedler E, Wallis K, Chen ZX, Hellman U, Johnson JI, Martinson T, Kenchappa RS, **Uhlén P**, Kogner P, Schlisio S "The 1p36 tumor suppressor KIF1B is required for Calcineurin activation controlling mitochondrial fission and apoptosis"  
*Developmental Cell* Jan 25;36(2):164-78 (2016)
56. Månsson-Broberg A, Rodin S, Bulatovic I, Ibarra C, Löfling M, Genead R, Wärdell E, Felldin U, Granath C, Alici E, Le Blanc K, Smith CI, Salašová A, Westgren M, Sundström E, **Uhlén P**, Arenas E, Sylvén C, Tryggvason K, Corbascio M, Simonson OE, Österholm C, Grinnemo KH "Wnt/ $\beta$ -Catenin Stimulation and Laminins Support Cardiovascular Cell Progenitor Expansion from Human Fetal Cardiac Mesenchymal Stromal Cells"  
*Stem Cell Reports* Apr 12;6(4):607-17 (2016)

57. Forsberg D, Horn Z, Tserga E, Smedler E, Silberberg G, Kaila K, **Uhlén P**, Herlenius E “CO<sub>2</sub>-evoked release of PGE<sub>2</sub> modulates sighs and inspiration as demonstrated in brainstem organotypic culture” *Elife* Jul 5;5. pii: e14170 (2016)
58. Tanaka N, Kosaka T, Miyazaki Y, Mikami S, Niwa N, Otsuka Y, Minamishima YA, Mizuno R, Kikuchi E, Miyajima A, Sabe H, Okada Y, **Uhlén P**, Suematsu M, Oya M “Acquired platinum resistance involves epithelial-to-mesenchymal transition through ubiquitin ligase FBXO32 dysregulation” *Journal of Clinical Investigation - Insight* Nov 3;1(18):e83654 (2016)
59. Niklasson M, Maddalo G, Sramkova Z, Mutlu E, Wee S, Sekyrova P, Schmidt L, Fritz N, Dehnisch I, Kyriatzis G, Krafcikova M, Carson BB, Feenstra J, Marinescu VD, Segerman A, Haraldsson M, Gustavsson A-L, Hammarström LG, Jenmalm-Jensen A, Uhrbom L, Altelaar AFM, Linnarsson S, **Uhlén P**, Trantirek L, Vincent CT, Nelander S, Enger P, Andäng M “Membrane depolarizing channel blockers induce selective glioma cell death via impaired nutrient transport and unfolded protein / amino acid responses” *Cancer Research* Apr 1;77(7):1741-1752 (2017)
60. Vincent PH, Benedikz E, **Uhlén P**, Hovatta O, Sundström E “Expression of Pluripotency Markers in Non-pluripotent Human Neural Stem and Progenitor Cells” *Stem Cells Dev.* Jun 15;26(12):876-887 (2017)
- 61.\* Hörtenhuber M, Toledo E, Smedler E, Arenas E, Malmersjö S, **Uhlén P** ‡ “Mapping Genes for Calcium Signaling and their Associated Genetic Disorders” *Bioinformatics* Aug 15;33(16):2547-2554 (2017)
62. Fernandez-Zafra T, Codeluppi S, **Uhlén P** ‡ “An ex vivo spinal cord injury model to study ependymal cells in adult mouse tissue” *Exp Cell Res.* Aug 15;357(2):236-242 (2017)
- 63.\* Tanaka N, Kanatani S, Tomer R, Sahlgren C, Kronqvist P, Kaczynska D, Louhivuori L, Kis L, Lindh C, Mitura P, Stepulak A, Corvigno S, Hartman J, Micke P, Mezheyeuski A, Strell C, Carlsson JW, Moro CF, Dahlstrand H, Östman A, Matsumoto K, Wiklund P, Oya M, Miyakawa A, Deisseroth K, **Uhlén P** ‡ “Whole-tissue biopsy phenotyping of three-dimensional tumours reveals patterns of cancer heterogeneity” *Nature Biomedical Engineering* 1, 796–806 (2017)  
Note: *Nature Biomedical Engineering* is a new journal that will soon be on PubMed
64. Kanatani S, Fuks JM, Olafsson E, Westermark L, Varas-Godoy M, **Uhlén P**, Barragan A “Voltage-dependent calcium channel signaling mediates GABA(A) receptor-induced migratory activation of dendritic cells infected by *Toxoplasma gondii*” *PLOS Pathogens* Dec 7;13(12):e1006739 (2017)
65. Louhivuori LM, Turunen PM, Louhivuori V, Yellapragada V, Nordström T, **Uhlén P**, Åkerman KE “Regulation of radial glial process growth by glutamate via mGluR5/TRPC3 and neuregulin/ErbB4” *Glia* Jan;66(1):94-107 (2018)
- 66.\* Tanaka N, Kaczynska D, Kanatani S, Sahlgren C, Mitura P, Stepulak A, Miyakawa A, Wiklund P, **Uhlén P** ‡ “Mapping of the Three-Dimensional Lymphatic Microvasculature in Bladder Tumors Using Light-Sheet Microscopy” *Br J Cancer* Apr;118(7):995-999 (2018)



67. Liu T, Zhao J, Ibarra C, Garcia MU, **Uhlén P**, Nistér M “Glycosylation controls sodium-calcium exchanger 3 sub-cellular localization during cell cycle”  
*Eur J Cell Biol* Apr;97(3):190-203 (2018)
- 68.\* **Uhlén P**‡, Tanaka P “Improved Pathological Examination of Tumors with 3D Light-Sheet Microscopy”  
*Trends Cancer* May;4(5):337-341 (2018)
69. Yang S, Toledo EM, Rosmaninho P, Peng C, **Uhlén P**, Castro DS, Arenas E “A Zeb2-miR200c loop controls midbrain dopaminergic neuron migration and differentiation”  
*Communications Biology (Nature Research)* Accepted (2018)