

## CURRICULUM VITAE

### PEYMAN S BJÖRKLUND Med Dr

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Uppsala University, Uppsala Academic Hospital  
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### EDUCATION

09/1998-06/2003 M.D. program, Medical School, Uppsala University, Uppsala, Sweden  
09/2001-06/2003 B.S. (Medicine). Uppsala University, Uppsala, Sweden.  
11/2003-12/2007 Ph.D., (Surgery) Department of Surgical sciences, Uppsala University.  
Supervisors, Gunnar Westin, Ph. D. & Göran Åkerström, M.D., Ph. D.  
Thesis: "Wnt/ $\beta$ -catenin Signalling in Parathyroid Tumours"

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### PROFESSIONAL APPOINTMENTS

11/2003-12/2007 PhD Fellowship, Department of Surgical Sciences, Uppsala University,  
Uppsala, Sweden.  
12/2007-03/2009 Research Associate (Post doc), Endocrine Surgery Unit, Department of  
Surgical Sciences, Uppsala University, Uppsala Sweden.  
03/2009-06/2011 Postdoctoral Research Associate, Yale University School of Medicine.  
07/2011- present Researcher, founded by Young Investigator Award, Swedish Cancer  
Society, Experimental Surgery Unit, Department of Surgical Sciences,  
Uppsala University, Uppsala Sweden.

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### AWARDS AND HONORS

2008 The Swedish Endocrinologist Society research foundation scholarship  
2009-2010 Wenner-Gren postdoctoral fellowship  
2011-2012 Swedish Society for Medical Research tenure fellowship  
2011- present Young Investigator Award, Swedish Cancer Society

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## PEDAGOGICS

### Supervision of doctoral students

Registered main supervisor for PhD student Lee F Starker MD, doctoral examination 2013.  
Registered main supervisor for PhD student Alberto Delgado Verdugo MD, doctoral examination 2014.  
Registered main supervisor for PhD student Joakim Crona MD, doctoral examination 2014.  
Registered main supervisor for MD/PhD student Tobias Åkerström MD, doctoral examination 2016.  
Registered supervisor for PhD student Rajani Maharjan MS, doctoral examination 2017.

### Ongoing:

Registered supervisor for PhD student Johan Kugelberg MD, planned doctoral examination 2018.  
Registered supervisor for MD/PhD student Samuel Backman, planned doctoral examination 2019.

### Co-supervision of doctoral students

Registered co supervisor for PhD Tijana Krajisnik, doctoral examination 2009.  
Registered co supervisor for PhD Jessica Svedlund, doctoral examination 2012.  
Registered co supervisor for PhD student Olov Norlen MD, doctoral examination 2013.  
Registered co supervisor for PhD student Maria Annerbo MD, doctoral examination 2016.

### Ongoing:

Registered co supervisor for PhD student Parisa missaghian MD, planned doctoral examination 2020.

### Supervision of postdoctoral fellows

2009-2010     Supervisor for William Long and Annabelle Fonseca, both residents in Surgery performing One/two years of research program at Yale University.

### Supervision of undergraduate students

Have supervised 4 students of "Course in Advanced Techniques in Molecular Medicine"; 3 students Uppsala Graduate School for Biomedical Research (UGSBR), Master project, 1 BMA student, Master project, 1 Biotechnology student, Master project, 1 Molecular Cell biology master student, and 10 medical students, Course in project work 20 weeks, all from Uppsala University, and one 5:th year medical student at Yale University.  
Currently have 2 medical students performing "Course in project work, 20 weeks" and 1 Molecular Medicine master student, 45 weeks, performing projects under my supervision in my lab.

### **Administration and leadership**

01/2008-present Course organizer “Translational medicine”, Uppsala University.

### **Passed pedagogic courses:**

2006 Pedagogic course for university faculty, Uppsala University  
2008 Pedagogic course for medical faculty PhD students supervisors, Uppsala University  
2008 Pedagogic course on PBL methodic, medical faculty, Uppsala University

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### **MEMBERSHIPS**

- American Association for Cancer Research
- The Swedish Endocrine Society
- The Swedish Society of Medicine
- European Network for study of Adrenal Tumors, ENSAT
- Endocrine Society

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### **COMMISSIONS OF TRUST**

2003-2007 Medical PhD students Council, Member of the board and secretary treasure  
2004-2008 Medical education and research financing council (ALF-styrelsen), Member  
2004-2008 Medical education and research financing board (ALF-nämnden), member of the executive committee  
2004-2006 Linné Library Group, member of the board, member of the executive committee

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### **COURSES**

2007 Affymetrix University, Expression Data Analysis Course  
2007 Partek Genomics Suite Gene Expression Training Course  
2007 IPA 5.5 Certification Exam  
2007 EMBO practical course on Tissue Microarray and image analysis  
2000 EMBO practical course on Advanced technique in molecular medicine  
2000 Course in laboratory animal science FELASA category C

## SCIENTIFIC PUBLICATIONS

## FULL LIST

## Original

- 01 Segersten U, Holm PK, **Björklund P**, Hessman O, Nordgren H, Binderup L, Åkerstrom G, Hellman P, Westin G. 25-Hydroxyvitamin D3 1alpha-hydroxylase expression in breast cancer and use of non-1alpha-hydroxylated vitamin D analogue. *Breast Cancer Res.* 2005;7(6):R980-6. Epub 2005 Oct 6.
- 02 **Björklund P**, Åkerstrom G, Westin G. Accumulation of nonphosphorylated  $\beta$ -catenin and c-myc in primary and uremic secondary hyperparathyroid tumors. *J Clin Endocrinol Metab.* 2007 Jan;92(1):338-44. Epub 2006 Oct 17.
- 03 **Björklund P**, Åkerstrom G, Westin G. Activated  $\beta$ -catenin in the novel human parathyroid tumor cell line sHPT-1. *Biochem Biophys Res Commun.* 2007 Jan 12;352(2):532-6. Epub 2006 Nov 20.
- 04 Segersten U, **Björklund P**, Hellman P, Åkerstrom G, Westin G. Potentiating effects of nonactive/active vitamin D analogues and ketoconazole in parathyroid cells. *Clin Endocrinol (Oxf).* 2007 Mar;66(3):399-404.
- 05 Krajisnik T, **Björklund P**, Marsell R, Ljunggren Ö, Åkerström G, Jonsson KB, Westin G and Larsson TE. Fibroblast growth factor-23 regulates PTH and 1 $\alpha$ -hydroxylase expression in cultured bovine parathyroid cells. *J Endocrinol.* 2007 Oct;195(1):125-31.
- 06 **Björklund P**, Åkerström G, and Westin G. A Truncated LRP5 Receptor in Hyperparathyroid Tumors with Implications for Deregulated Wnt/ $\beta$ -catenin Signaling. **PLoS Medicine.** 2007 Nov 27;4(11):e328
- 07 Alimohammadi M, **Björklund P**, Hallgren Å, Pöntynen N, Szinnai G, Shakima N, Keller M, Ekwall O, Kinkel SA, Husebye ES, Gustafsson J, Rorsman F, Peltonen L, Perheentupa J, Åkerström, Westin G, Scott HS, Holländer G, and Kämpe O. Identification of NALP5 as a major parathyroid antigen in autoimmune polyendocrine syndrome type I. **New England Journal of Medicine**, 2008 Mars 6;358(10):1018-28
- 08 **Björklund P**, Lindberg D, Åkerström G, and Westin G. Stabilizing Mutations of *CTNNB1*/ $\beta$ -catenin in Parathyroid Adenomas of Swedish Patients. *Mol Cancer.* 2008 Jun 9;7:53.
- 09 **Björklund P\***, Krajisnik T\*, Åkerström G, Westin G, Larsson TE. Type I membrane Klotho Expression is Decreased and Inversely Correlated to Serum Calcium in Primary Hyperparathyroidism. *J Clin Endocrinol Metab.* 2008 Oct;93(10):4152-7. Epub 2008 Aug 5.

- 10 **Björklund P\***, Cupisti K\*, Fryknäs M, Isaksson A, Willenberg HS, Åkerström G, Hellman P, Westin G. Stathmin as a marker for malignancy in pheochromocytomas. *Exp Clin Endocrinol Diabetes*. 2010 Jan;118(1):27-30. Epub 2009 May 15.
- 11 **Björklund P**, Svedlund J, Olsson A-K, Åkerström G and Westin G. The internally truncated LRP5 receptor presents a therapeutic target in breast cancer. *PLoS ONE*. 2009;4(1):e4243. Epub 2009 Jan 22.
- 12 Flanagan JN, Linder K, Mejhert N, Dungner E, Wahlen K, Decaunes P, Rydén M, **Björklund P**, Arver S, Bhasin S, Bouloumie A, Arner P, Dahlman I. Role of Follistatin in Promoting Adipogenesis in Women. *J Clin Endocrinol Metab*. 2009 Aug;94(8):3003-9. Epub 2009 May 26.
- 13 Lu M, Bränström R, Höög A, **Björklund P**, Westin G, Larsson C, Farnebo L-O and Forsberg L. Expression and association of TRPC subtypes and with Orail1 and STIM1 in human parathyroid. *J Mol Endocrinol*. 2010 May;44(5):285-94. Epub 2010 Mar 1.
- 14 Krajisnik T, Olauson H, Mirza M, Åkerström G, Westin G, Larsson TE and **Björklund P**. Parathyroid Klotho and FGF-receptor 1 expression decline with renal function in hyperparathyroid patients with chronic kidney disease and kidney transplant recipients. *Kidney Int*. 2010 Nov;78(10):1024-32. Epub 2010 Aug 4.
- 15 Starker LF, Delgado-Verdugo A, Udelsman R, **Björklund P** & Carling T. Expression and somatic mutations of *SDHAF2 (SDH5)*, a novel endocrine tumor suppressor gene in parathyroid tumors of primary hyperparathyroidism. *Endocrine*. 2010 Dec;38(3):397-401.
- 16 Svedlund J, Aurén M, Sundström M, Dralle H, Åkerström G, **Björklund P** and Westin G. Aberrant WNT/beta-catenin signaling in parathyroid carcinoma. *Mol Cancer*. 2010 Nov 15;9:294.
- 17 Starker LF, Amit Mahajan A, **Björklund P**, Sze G, Robert Udelsman R, and Carling T. 4D Parathyroid CT as the Initial Localization study for patients with De Novo Primary Hyperparathyroidism. *Annals of Surgical Oncology* 2011 Jun;18(6):1723-8. Dec 24.
- 18 Starker LF, **Björklund P**, Theoharis C, Long WD, Carling and Udelsman R. Clinical and Histopathological Characteristics of Hyperparathyroidism Induced hypercalcemic Crisis. *World J Surgery* 2011 Feb;35(2):331-5.
- 19 Choi M, Scholl U, Yue P\*, **Björklund P\***, Zhao B\*, Nelson-Williams C, Ji W, Cho Y, Patel A, Lolis E, Wisgerhof M, Geller D, Mane S, Westin G, Åkerström G, Wang W, Carling T, Lifton RP. K<sup>+</sup> channel mutations in adrenal aldosterone-producing adenomas and hereditary hypertension. **Science**. 2011 Feb 11;331(6018):768-72

- 20 Starker L, Paterno F, **Björklund P**, Wasson D and Atweh N. Metastatic Colon Cancer to the thyroid gland in the setting of pathologically diagnosed Papillary Thyroid cancer: A review and report of a case. *World Journal of Oncology*. 2011;2(1):33-36
- 21 Edfeldt K, **Björklund P**, Åkerström G, Westin G, Hellman P, Ståhlberg P. Different gene expression profiles in metastasizing midgut carcinoid tumors. *Endocr Relat Cancer*. 2011 Jul 11;18(4):479-89.
- 22 Starker LF, Svedlund J, Udelsman R, Dralle H, Akerström G, Westin G, Lifton RP, **Björklund P**, Carling T. The DNA methylome of benign and malignant parathyroid tumors. *Genes Chromosomes Cancer*. 2011 Sep;50(9):735-45.
- 23 Svedlund J, Koskinen Edblom S, Marquez VE, Akerström G, **Björklund P**, Westin G. Hypermethylated in Cancer 1 (HIC1), a Tumor Suppressor Gene Epigenetically Deregulated in Hyperparathyroid Tumors by Histone H3 Lysine Modification. *J Clin Endocrinol Metab*. 2012 Jul;97(7):E1307-15. Epub 2012 Apr 27.
- 24 **Björklund P**, Hellman P. Culture of parathyroid cells. *Methods Mol Biol*. 2012;806:43-53.
- 25 Starker LF, Fonseca A, Åkerström G, **Björklund P**, Westin G, Carling T. Evidence of a Stabilizing Mutation of  $\beta$ -Catenin Encoded by CTNNB1 Exon 3 in a Large Series of Sporadic Parathyroid Adenomas. *Endocrine*. 2012 Dec;42(3):612-5. doi: 10.1007/s12020-012-9690-3. Epub 2012 May 11
- 26 Fonseca AL, Kugelberg J, Starker LF, Scholl U, Choi M, Hellman P, Åkerström G, Westin G, Lifton RP, **Björklund P** & Carling T. Comprehensive DNA Methylation Analysis of Benign and Malignant Adrenocortical Tumors. *Genes, Chromosomes & Cancer*, 2012 Oct;51(10):949-60. doi: 10.1002/gcc.21978. Epub 2012 Jun 26.
- 27 Åkerström T, Crona J\*, Delgado Verdugo A\*, Starker LF, Cupisti K, Willenberg HS, Knoefel WT, Saeger W, Feller A, Ip J, Soon P, Anlauf M, Alesina PF, Schmid KW, Decaussin M, Levillain P, Wängberg B, Peix J-L, Robinson B, Zedenius J, Bäckdahl M, Caramuta S, Iwen AK, Botling J, Ståhlberg P, Kraimps J-L, Dralle H, Hellman P, Sidhu S, Westin G, Lehnert H, Walz MK, Åkerström G, Carling T, Choi M, Lifton RP and **Björklund P**. Comprehensive re-sequencing of adrenal aldosterone producing lesions reveal three somatic mutations near the KCNJ5 potassium channel selectivity filter. *PLoSOne*, 2012;7(7):e41926. Epub 2012 Jul 27.
- 28 Crona J, **Björklund P**, Welin S, Kozlovacki G, Oberg K, Granberg D. Treatment, prognostic markers and survival in thymic neuroendocrine tumours. A study from a single tertiary referral centre. *Lung Cancer*. 2013 Mar;79(3):289-93. doi: 10.1016/j.lungcan.2012.12.001. Epub 2013 Jan 1.

- 29 Crona J, Granberg D, Norlén O, Wärnberg F, Stålberg P, Hellman P and **Björklund P**. Metastases from neuroendocrine tumours to the breast are more common than previously thought. A diagnostic pitfall? *World J Surg*. 2013 Jul;37(7):1701-6. doi: 10.1007/s00268-013-2037-2.
- 30 Crona J, Delgado Verdugo A, Maharjan R, Stålberg P, Granberg D, Hellman P, **Björklund P**. Somatic mutations in H-RAS in sporadic pheochromocytoma and paraganglioma identified by exome sequencing. *J Clin Endocrinol Metab*. 2013 Jul;98(7):E1266-71. doi: 10.1210/jc.2012-4257. Epub 2013 May 2.
- 31 Crona J, Maharjan R, Delgado Verdugo A, Stålberg P, Granberg D, Hellman P, **Björklund P**. MAX mutations status in Swedish patients with pheochromocytoma and paraganglioma tumours. *Fam Cancer*. 2014 Mar;13(1):121-5. doi: 10.1007/s10689-013-9666-3.
- 32 Crona J, Verdugo AD, Granberg D, Welin S, Stålberg P, Hellman P, **Björklund P**. Next-generation sequencing in the clinical genetic screening of patients with pheochromocytoma and paraganglioma. *Endocr Connect*. 2013 May 28;2(2):104-11. doi: 10.1530/EC-13-0009. Print 2013 Jun 1.
- 33 Scholl UI, Goh G, Stölting G, de Oliveira RC, Choi M, Overton JD, Fonseca AL, Korah R, Starker LF, Kunstman JW, Prasad ML, Hartung EA, Murras N, Benson MR, Brady T, Shapiro JR, Loring E, Nelson-Williams C, Libutti SK, Mane S, Hellman P, Westin G, Åkerström G, **Björklund P**, Carling T, Fahlke C, Hidalgo P, Lifton RP. Somatic and germline CACNA1D calcium channel mutations in aldosterone-producing adenomas and primary aldosteronism. *Nat Genet*. 2013 Sep;45(9):1050-4. doi: 10.1038/ng.2695. Epub 2013 Aug 4.
- 34 Delgado Verdugo A, Crona J, Starker LF, Stalberg P, Akerström G, Westin G, Hellman P, **Bjorklund P**. Global DNA methylation patterns in small intestinal neuroendocrine tumors (SI-NETs). *Endocr Relat Cancer*. 2013 Nov 5. [Epub ahead of print] 2014 Jan 21;21(1):L5-7. doi: 10.1530/ERC-13-0481. Print 2014 Feb.
- 35 Svedlund J, Barazeghi E, Stalberg P, Hellman P, Akerström G, **Bjorklund P**, Westin G. The histone methyltransferase EZH2, an oncogene common to benign and malignant parathyroid tumors. *Endocr Relat Cancer*. 2013 Nov 29. [Epub ahead of print] 2014 Feb 27;21(2):231-9. doi: 10.1530/ERC-13-0497. Print 2014
- 36 Edfeldt K, Ahmad T, Åkerström G, Janson ET, Hellman P, Stålberg P, **Björklund P**, and Westin G. *TCEB3C* a putative tumor suppressor gene of small intestine neuroendocrine tumors. *Endocr Relat Cancer*. 2014 Feb 27;21(2):275-84. doi: 10.1530/ERC-13-0419. Print 2014
- 37 Crona J, Nordling M, Maharjan R, Granberg D, Stålberg P, Hellman P, **Björklund P**. Integrative genetic characterization and phenotype correlations in pheochromocytoma and paraganglioma tumours. *PLoS One*. 2014 Jan 22;9(1):e86756. doi: 10.1371/journal.pone.0086756. eCollection 2014.

- 38 Goh G, Scholl UI, Healy JM, Choi M, Prasad ML, Nelson-Williams C, Kuntsman JW, Korah R, Suttorp A-C, Dietrich D, Haase M, Willenberg HS, Ståhlberg P, Hellman P, Åkerström G, **Björklund P**, Carling T, Lifton RP. Recurrent activating mutation in *PRKACA* cortisol-producing adrenal tumors. **Nature Genetics** 2014 Jun;46(6):613-7. doi: 10.1038/ng.2956. Epub 2014 Apr 20.
- 39 Norlén O, Edfeldt K, Åkerström G, Westin G, Hellman P, **Björklund P**, Ståhlberg P. Peritoneal Carcinomatosis From Small Intestinal Neuroendocrine Tumors; Clinical Course And Genetic Profiling. *Surgery*. 2014 Dec;156(6):1512-21; discussion 1521-2. doi: 10.1016/j.surg.2014.08.090. Epub 2014 Nov 11. PMID:25456945
- 40 Verdugo\* A. D, Crona\* J, Maharjan R, Hellman P, Westin G, **P. Björklund**. Exome Sequencing and CNV Analysis on Chromosome 18 in Small Intestinal Neuroendocrine Tumors: Ruling Out a Suspect? *Horm Metab Res* 2014; 46: 1–4
- 41 Crona J, Gustavsson T, Norlén O, Edfeldt K, Åkerström T, Westin G, Hellman P, **Björklund P**, Ståhlberg P. Somatic Mutations and Genetic Heterogeneity at the *CDKN1B* Locus in Small Intestinal Neuroendocrine Tumors. *Ann Surg Oncol*. 2015 Dec;22 Suppl 3:S1428-35. doi: 10.1245/s10434-014-4351-9. Epub 2015 Jan 14.
- 42 Cromer MK, Choi M, Nelson-Williams C, Fonseca AL, Kunstman JW, Korah RM, Overton J, Mane S, Kenney B, Malchoff CD, Stalberg P, Åkerström G, Westin G, Hellman P, Carling T, **Björklund P**, Lifton RP. Neomorphic effects of recurrent somatic mutations in *YY1* in insulin-producing adenomas. *Proc Natl Acad Sci U S A*. 2015 Mar 31;112(13):4062-7. doi: 10.1073/pnas.1503696112. Epub 2015 Mar 18.
- 43 Åkerström T, Willenberg HS, Cupisti K, Ip J, Backman S, Moser A, Maharjan R, Robinson B, Iwen KA, Dralle H, D Volpe C, Bäckdahl M, Botling J, Ståhlberg P, Westin G, Walz MK, Lehnert H, Sidhu S, Zedenius J, **Björklund P**, Hellman P. Novel somatic mutations and distinct molecular signature in aldosterone-producing adenomas. *Endocr Relat Cancer*. 2015 Oct;22(5):735-44. doi: 10.1530/ERC-15-0321. PubMed PMID: 26285814.
- 44 Crona J, Ljungström V, Welin S, Walz MK, Hellman P, **Björklund P**. Bioinformatic Challenges in Clinical Diagnostic Application of Targeted Next Generation Sequencing: Experience from Pheochromocytoma. *PLoS One*. 2015 Jul 31;10(7):e0133210. doi: 10.1371/journal.pone.0133210. eCollection 2015. PubMed PMID: 26230854; PubMed Central PMCID: PMC4521794.
- 45 Crona J, Backman S, Maharjan R, Mayrhofer M, Stalberg P, Isakson A, Hellman P, **Björklund P**. Spatio-temporal heterogeneity characterizes the genetic landscape of pheochromocytoma and defines early events in tumourigenesis *Clin Cancer Res*. 2015 Oct 1;21(19):4451-60. doi: 10.1158/1078-0432.CCR-14-2854. Epub 2015 May 19.



- 46 Malenczyk K, Keimpema E, Piscitelli F, Calvigioni D, **Björklund P**, Mackie K, Di Marzo V, Hökfelt TG, Dobrzyn A, Harkany T. Fetal endocannabinoids orchestrate the organization of pancreatic islet microarchitecture. **Proc Natl Acad Sci U S A**. 2015 Nov 10;112(45):E6185-94. doi: 10.1073/pnas.1519040112. Epub 2015 Oct 22. PubMed PMID: 26494286; PubMed Central PMCID: PMC4653226.
- 47 Åkerström T, Maharjan R, Sven Willenberg H, Cupisti K, Ip J, Moser A, Stålberg P, Robinson B, Alexander Iwen K, Dralle H, Walz MK, Lehnert H, Sidhu S, Gomez-Sanchez C, Hellman P, **Björklund P**. Activating mutations in CTNNB1 in aldosterone producing adenomas. *Sci Rep*. 2016 Jan 27;6:19546. doi: 10.1038/srep19546. PubMed PMID: 26815163.
- 48 Samuel Backman, Rajani Maharjan, Alberto Falk-Delgado, Joakim Crona, Kenko Cupisti, Peter Stålberg, Per Hellman, **Peyman Björklund**. Global DNA Methylation Analysis Identifies Two Discrete clusters of Pheochromocytoma with Distinct Genomic and Genetic Alterations. *Sci Rep*. 2017 Mar 22;7:44943. doi: 10.1038/srep44943.
- 49 Smith-Anttila CJA, Bensing S, Alimohammadi M, Dalin F, Oscarson M, Zhang MD, Perheentupa J, Husebye ES, Gustafsson J, **Björklund P**, Fransson A, Nordmark G, Rönnblom L, Meloni A, Scott RJ, Hökfelt T, Crock PA, Kämpe O. Identification of endothelin-converting enzyme-2 as an autoantigen in autoimmune polyendocrine syndrome type 1. *Autoimmunity*. 2017 Jun;50(4):223-231. doi: 10.1080/08916934.2017.1332183. Epub 2017 May 30. PMID: 28557628
- 50 Williams TA, Lenders JWM, Mulatero P, Burrello J, Rottenkolber M, Adolf C, Satoh F, Amar L, Quinkler M, Deinum J, Beuschlein F, Kitamoto KK, Pham U, Morimoto R, Umakoshi H, Prejbisz A, Kocjan T, Naruse M, Stowasser M, Nishikawa T, Young WF Jr, Gomez-Sanchez CE, Funder JW, Reincke M; **Primary Aldosteronism Surgery Outcome (PASO) investigators**. Outcomes after adrenalectomy for unilateral primary aldosteronism: an international consensus on outcome measures and analysis of remission rates in an international cohort. *Lancet Diabetes Endocrinol*. 2017 Sep;5(9):689-699. doi: 10.1016/S2213-8587(17)30135-3. Epub 2017 May 30. PMID: 28576687
- 51 Dumanski JP, Rasi C, **Björklund P**, Davies H, Ali AS, Grönberg M, Welin S, Sorbye H, Grønbaek H, Cunningham JL, Forsberg LA, Lind L, Ingelsson E, Stålberg P, Hellman P, Tiensuu Janson E. A MUTYH germline mutation is associated with small intestinal neuroendocrine tumors. *Endocr Relat Cancer*. 2017 Aug;24(8):427-443. doi: 10.1530/ERC-17-0196. Epub 2017 Jun 20. PMID: 28634180

## Reviews

- 1 Westin G, **Björklund P**, Akerström G. Molecular Genetics of Parathyroid Disease. *World J Surg*. 2009 Nov;33(11):2224-33.

- 2 **Björklund P**, Starker L, Fonseca A and Carling T. Molecular basis of primary hyperparathyroidism. *World J Endocrine Surgery*, 2010 May-August;2(1) 63-70.
- 3 **Björklund P**, Pacak K and Joakim Crona. Precision medicine in Pheochromocytoma and Paraganglioma: Current and future concepts. *J Intern Med*. 2016 May 10. doi: 10.1111/joim.12507. [Epub ahead of print] PMID: 27165774
- 4 **Peyman Björklund** and Samuel Backman. Epigenetics of Pheochromocytoma and paraganglioma. *Molecular and Cellular Endocrinology*. 2017 Jun 16. pii: S0303-7207(17)30343-X. doi: 10.1016/j.mce.2017.06.016. [Epub ahead of print] Review. PMID: 28630023

### Book chapters

- 1 Åkerström G, Hellman P and **Björklund P**. 2008. Parathyroid Carcinoma. In *Clinical Endocrine Oncology*, 2nd edition: Edited by Ian Hay, Helen Turner and John Wass
- 2 Hellman P, Åkerström T, **Björklund P**. Molecular derangements in sporadic primary aldosteronism. In: *Primary aldosteronism - Molecular genetics, Endocrinology and Translational Medicine*. Ed. Hellman P. Springer Science+Business Media, New York, NY, USA. pp45-52, 2014. ISBN 978-1-4939-0508-9
- 3 Samuel Backman, **Peyman Björklund**. Molecular Genetics of Gastroenteropancreatic Neuroendocrine Tumours. In: *Diagnostic and Therapeutic Nuclear Medicine for Neuroendocrine Tumors*. Edited by Pacak, Karel, Taïeb, David (Eds.) ISBN 978-3-319-46038-3, © 2017,

### Patents

- 1 **WO2005048913** "LRP5 and LRP6 Receptors in Cancer Treatment", Gunnar Westin, **Peyman Björklund** and Göran Åkerström.
- 2 **WO/2012/094394** " Methods and Compositions for Assessing and Treating Adrenal Diseases and Disorders", Lifton R, Zhao B, Åkerström G, Westin g, **Björklund P**, Hellman P, Choi M.

### Popular science articles

- 1 **Peyman Björklund**. Translationell forskning med sikte på nya terapier. *Onkologi i Sverige*, 2013 Jan;(1-13):30-32.