

**1. Full name and year of birth**

Name: Otonkoski, Timo Pyry Juhani

Gender: Male

Year of birth: 1956

**2. Degrees**

- Licenced Pediatric Endocrinologist University of Helsinki 2000
- Docent of Experimental Endocrinology University of Helsinki 1996
- Licenced Pediatrician University of Helsinki 1992
- Doctor of Medical Science University of Helsinki 1989  
Thesis: Functional maturation of the human endocrine pancreas during fetal development (Accepted with distinction)
- Licentiate of Medicine University of Helsinki 1981

**3. Current position**

- Professor of Medical Stem Cell Research, University of Helsinki, Faculty of Medicine 2012–
- Doctor in Chief, University of Helsinki, Children's Hospital, 2007–
- Principal Investigator, University of Helsinki, Research Programs Unit, Program of Molecular Neurology, 2013–
- Director, Biomedicum Stem Cell Center, Faculty of Medicine, University of Helsinki 2010–

**4. Previous positions and experience**

- Professor of Experimental Diabetes and Human Stem Cell Research, University of Helsinki, 2007–2011.
- Assistant Chief Physician, University of Helsinki, Children's Hospital, 1998–2006.
- Senior Research Fellow of The Academy of Finland at the University of Helsinki, 2005.
- Group leader (2001-04) and Director (2004-06) of the Developmental and Reproductive Biology Research Program, Biomedicum Helsinki
- Fellow in Pediatric Endocrinology, University of Helsinki, Children's Hospital, 1994–1998.
- Group leader, University of Helsinki, Haartman Institute, Transplantation Laboratory, 1994–2001.
- Fellow in Pediatric Endocrinology, University of California, San Diego, 1993–1994.
- Postdoctoral Fellow, The Whittier Institute for Diabetes and Endocrinology, La Jolla, California, 1991–1994.
- Resident and Research Fellow, University of Helsinki, Children's Hospital, 1983–1991.
- Public Health Officer, Ilomantsi, Finland 1981–1982.

**5. Presentations and visits abroad (selected)**

- American Diabetes Association, Invited lecture at Annual Meeting, San Diego, Ca, USA, June 2017
- French Diabetes Association, Invited lecture at Annual Meeting, Lille, France, March 2017
- European Association for the Study of Diabetes (EASD): Invited lecture, Munich, Germany, September 2016
- University of Lund, Annual Diabetes Research Symposium: Plenary Lecture, February 2016
- Université Libre Brussels, Belgium, Faculty of Medicine: Invited lecture, May 2015
- Danish Academy of Science and Letters: Horizons in Molecular Life Science, April 2015
- Scandinavian Society for the Study of Diabetes, 2014: Novo Nordisk Foundation Award Lecture
- University of Oxford, Center for Metabolism: Invited lecture, October 2013
- European Society for Pediatric Endocrinology, 2012: Plenary Lecture, Leipzig, Germany
- ISCI International human stem cell symposium, Bar Harbor, USA, 2010: Invited lecture

- Kroc Award Lecture, University of Uppsala, SWEDEN, June 11, 2009
- EMBO Workshop: Beta cell differentiation, Peebles , Scotland: Invited Lecture, February 2009

#### **6. Scientific and academic administrative positions**

- Director of the National Platform for Stem Cells and Biomaterials, Biocenter Finland 2013-
- Vice Director, University of Helsinki, Research Programs Unit, Molecular Neurology, 2013– (Acting Director 2014-15)
- Director, Biomedicum Stem Cell Center, 2010-
- Coordinator, Biomedicum Helsinki, Program of Developmental and Reproductive Biology 2004–06

#### **7. Scientific acknowledgements and awards**

- Scandinavian Society for the Study of Diabetes, Novo Nordisk Foundation Lecture Award, 2014.
- Member of the Finnish Academy of Science and Letters, 2013.
- University of Uppsala, Kroc Lecture Award, 2009.
- European Society for Pediatric Endocrinology
- Henning Andersen Prize (Best clinical abstract, first author), 2003.
- Henning Andersen Prize (Best clinical abstract, last author), 1998.
- Juvenile Diabetes Research Foundation: Mary Jane Kugel Award, 2003
- Juvenile Diabetes Research Foundation: Career Development Award 1995-1999.
- Helena and Niilo Hallman Prize (Finnish Pediatric Association Young Investigator Award), 1996.

#### **8. Research funding**

- 2017-2020 Jane and Aatos Erkko Foundation: Genome activation of the early embryo – key to novel types of stem cells. Amount of funding 1150,000 €.
- 2016-2020 Academy of Finland: Stem-cell derived pancreatic islet cells for diabetes research. Amount of funding 500,000 €.
- 2015-2020 EU Horizon 2020; IMI2 project: Translational approaches to disease modifying therapy of type 1 diabetes: An innovative approach towards understanding and arresting Type 1 diabetes (INNODIA). Amount of funding 230,000€
- 2015-16 Diabetes Research Foundation: Large research grant, Amount of funding 100,000 €
- 2014-16 TEKES: 3i regeneration project. Amount of funding 632,000 €.
- 2015-2017 Helsinki and Uusimaa Hospital District (HUS): Project Grant. Amount of funding 204,000 €
- 2014–2017 EU 7th framework: Integrated project: BETACURE. Amount of funding 150,000 €.
- 2013–2016 Juvenile Diabetes Research Foundation (JDRF): A novel ER stress regulating growth factor for the treatment of diabetes. (Co-PI with Mart Saarma). Amount of funding 137,000 €.
- 2010-16 Biocenter Finland (Univ of Helsinki): National technology platform for stem cells and biomaterials. Amount of funding 844,000 €.
- 2011-16 Biocentrum Helsinki (Univ of Helsinki). Amount of funding: 35000 €/year.
- 2012-2017 Sigrid Jusélius Foundation Special Grant. 2012–2017 (Co-PI Kari Alitalo). Amount of funding 625,000 €.
- 2012–2016 Academy of Finland: Modelling of monogenic diabetes through stem cells.. Amount of funding 412,500 €.
- 2012–2016 Novo Nordisk Foundation: iPS cells for diabetes. Amount of funding 270,000 €.
- 2009–2012 EU 7th FP: Development of culture conditions for the differentiation of hES cells to hepatocytes (LIV-ES)..

- 2006–2010 EU 6th framework: Integrated project; Platforms for biomedical discovery with human ES cells (ESTOOLS)..
- 2006–2009 EU 6th framework: STREP project SAVEBETA.

### **9. Research Leadership and supervision**

- Supervision of Postdoctoral Researchers: 7 completed, 4 on-going
  - Completed: Karolina Lundin, Tiina Palomäki, Meenal Banerjee, Samer Hussein, Karen Sabatini, Martins Kalis, Milla Mikkola,
  - On-going: Maxim Beshpalov, Ras Trokovic, Jonna Saarimäki-Vire, Vikash Chandra.
- Supervision of Doctoral Theses: 8 completed, 3 ongoing
  - Completed: Sanna Toivonen 2016, Elina Hakonen 2014, Sanna Vuoristo 2013, Milla Mikkola 2013, Gao Ru 2007, Suvi Rasilainen 2004, Mari-Anne Pulkkinen 2003, Hanna Huopio 2002.
  - On-going: Diego Balboa, Jere Weltner, Väinö Lithovius.
- Supervision of Master of Science Theses: 3 completed, 2 ongoing
- Memberships in PhD thesis committees: numerous in 2000-2016
- Director of the Biocenter Finland Stem Cells and Biomaterials Platform 2013-
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### **10. Other scientific expert positions**

- Service as an opponent of a doctoral dissertation: 6 times, in Finland, Sweden, Denmark, Belgium.
- Service as a pre-examiner of a doctoral dissertation: 16 times.
- Evaluation of academic and scientific competence
- Docenture: 4 (Finland)
- Professorships: University of Lund, Sweden, University of California San Diego, USA.
- Scientific evaluation of grant applications:  
EU ERC Starting Grants, 2014, 2016. EU 7<sup>th</sup> Framework Programme, Scientific Review Committee, 2008–2009. Wellcome Trust, 2003–. Research Councils of Denmark, Belgium and Austria 2001–. Juvenile Diabetes Foundation Medical Science Review Committee, 2000–2003 & ad hoc annual reviews. Pediatric Research Foundation, member of the scientific review committee 2015–. Israel Science Foundation 2011-14. Flanders Research Foundation 2013. Diabetes Research Foundation, member and chairman of the scientific review committee 2007-09. Helsinki University Central Hospital, member of the scientific committee 1999-2001.
- Scientific reviewer of the Wellcome Trust Sanger Institute Cellular Genetics Program, 2015.
- Scientific Advisory Board Memberships:
  - Norwegian Stem Cell Center, Norway, 2012.
  - Institut d'Investigacio Biomedica de Bellvitge (IDIBELL, Barcelona, Spain), 2008-12.

### **Other academic merits**

- Memberships in scientific and scholarly societies:
  - American Diabetes Association (ADA), European Association for the Study of Diabetes (EASD), International Society for Stem Cell Research (ISSCR), European Society for Pediatric Endocrinology (ESPE).
- Positions of trust in scientific and scholarly societies:
  - European Association for the Study of Diabetes (EASD), Council Member, 2003–2007.
  - Finnish Society of Diabetes Research, Member of the Board, 2003–2006.
  - Finnish Society for Pediatric Endocrinology, Member of the Board, 2001–2005.

**Editorial duties**

- Associate Editor: Diabetologia, 2008–2011.
- Member of Editorial Board: Diabetologia, 2011–.
- Reviewer for scientific journals (selected):
  - Diabetes, Diabetologia, Exp Cell Res, J Pediatrics, J Endocrinol, J Biotechnol, Differentiation, J Clin Endocrinol Metab, PNAS, Mol Endocrinology, Stem Cells, Nature Clinical Medicine, J Biol Chem, Am J Transplantation, Cell Proliferation, Stem Cell Reports, PLOS One, PLOS Genetics.

**Positions of trust in society and other societal merits**

Science Foundation of the University of Helsinki, Board Member 2012-

**11. Scientific and societal impact of research**

Total number of publications: 240. Cited in total 8163 (excluding self-citations). H-Index: 53. (Web of Science Jan 27, 2017).