

## Curriculum Vitae Thomas Laurell

### Education/academic degrees

1986 Master of science, Electronic engineering, Lund University

1995 PhD at the dept. of Electrical Measurements, Lund University

1998 Assoc. Prof. (docent) at the dept. of Electrical Measurements, Lund University

2000 – still Professor, Dept. Biomedical Engineering, Lund University, 80% research 20 % teaching.

2009 – 2017 Distinguished Professor, Dept. Biomedical Engineering, Dongguk University, Seoul, Korea

### Parental leave

3 months Aug-Dec 1994; 3 months Aug-Dec 1997; 3 months Jan-June 2003.

### Research supervision/guest researchers

19 full PhD-theses, J. Drott 1997, L. Wallman 2001, M. Bengtsson 2004, F. Sebelius 2004, L. Malmström 2005, S. Ekström 2005, A. Ressine 2005, F. Petersson 2007, A. Lenshof 2009, K. Järås 2010, P. Augustsson 2011, A. Tajudin 2011, B. Adler 2014, C. Grenvall 2014, Maria Antfolk 2015, Ola Jakobsson 2016, Mariana Duarte 2017, Kishore Jagadesaan 2017, Klara Petersson 2018 and 4 licentiate theses. Currently supervising 5 PhD-students and 2 post docs. Post docs/senior guest researchers: K. Morishima, Japan, R. Oleshuk, Canada; A. Vegvari, Hungary; M. Rezeli, Hungary; Prof. S. Verpoorte, The Netherlands; Sang Wook Lee, Korea; J. Ahn, Korea, H. Yan, China; JW Park, Korea, SJ. Lee, Korea; K. Cushing, USA, Fabio Garofalo, Italy; P. Ohlsson, Sweden;

### Scientific output

More than 230 scientific publications since 1992 in peer reviewed international scientific journals. Over 8300 citations (Web of Science) and an h-index of 47. 19 papers cited  $\geq 100$  times. Filed 32 patent applications since 1995. More than 80 invited oral presentations, plenary lectures and keynote lectures at international scientific conferences. URL to Laurell ISI Citation data (Web of Science) Researcher ID:

<http://www.researcherid.com/rid/B-5524-2013> Research grants total: >260 MSEK

### Awards

- 2009 **AkzoNobel Science Award Sweden 2009**, 500 KSEK, shared with Carl-Borrebaeck
- 2006 **Erna Ebelings Pris**, 30 KSEK Swe. Soc. for Med. Eng. & Med. Phys./Swe. Soc. of Med.
- 2006 **Wallmark Award**, 100 KSEK, of the Royal Swedish Academy of Sciences (KVA, Sweden)
- 2005 **Best paper award 2004** in Analytical and Bioanalytical Chemistry, Springer Verlag.
- 2004 Winner of **Innovationspriset**, 200 KSEK by ÖhrlingsPriceWaterhouseCoopers and LUAB.
- 2004 Winner of **Albhins Innovation Award**
- 2003 Regional winner, 25 KSEK, of **Innovation Cup – South**
- 2003 National winner of **The Foundation SKAPA Award**, 300 KSEK
- 2003 Winner of **Innovationspriset**, 200 KSEK given by ÖhrlingsPriceWaterhouseCoopers and LUAB
- 2002 National winner of **Innovation Cup**, 100 KSEK
- 2002 National winner of the **Connect/IVA best start-up company of the year**, ErySave AB
- 2000 **Biosensors 2000 Award**, Biosensors 2000, May 24-26, San Diego, USA
- 1997 **Teknikbrostiftelsen scholarship** for institute or university connected development, 100 KSEK
- 1996, Winner of the regional qualification in **Innovation Cup**, 22 KSEK
- 1996 Winner of the **Foundation SKAPA Award** in memory of Alfred Nobel, 300 KSEK

### Entrepreneurial

- AcouSort AB – founder (2010), board member, IPO Jan. 2017
- Treat4Life AB – Board member 2015-
- Board member of Genovis AB 2008-2014
- Board member of Geccodots AB 2014-2015

### Society/academy memberships

- Elected Fellow of School of Engineering, The University of Tokyo, since 2015

- Elected member of Royal Swedish Academy of Sciences since 2010
- Elected member of Royal Swedish Academy of Engineering Sciences, since 2007
- Elected member of Royal Physiographic Society since 2007

#### **Program committees, scientific boards, commissions of trust etc.**

- Board member of Engineering Faculty, Lund University, 2015-
- President of CBMS, Chemical and Biological Microsystems Society ([www.cbmsociety.org](http://www.cbmsociety.org)), 2010-17
- Chairman in dept. VII, Royal Academy of Engineering Sciences, 2009-2013
- Cofounder of Ctr. of Excellence in Biological & Medical Massspectrometry, CEBMMS
- Two times Conference chair of USWNet Conference, The Netherlands, 2010 and Sweden, 2012
- Conference co-chair of the European Proteome Association Congress, EuPA 2009, Stockholm, June 14-17,
- Member of research advisory board of Technical Faculty, Lund Univ. 2006-2008
- Scientific advisory board Swedish Society for Medical Engineering and Medical Physics since 2007
- Coordinator EU research project, SmartHand, STREP NMP4-CT-2006-033423
- Board of Directors of CMBS, Chemical and Biological Microsystems Society 2005-2017
- Conference Chair of Micro Total Analysis Systems -  $\mu$ TAS 2004, in Malmö, Sweden
- Scientific advisory and/or committee member of: Micro Total Analysis Systems -  $\mu$ TAS , 2000–2008; The Swedish Proteomics Society Symposium, 2002-04 & 2008-09 Sweden; 3rd International Conference on Porous Semiconductors-Science and Technology, PSST-2002, Puerto de la Cruz, Tenerife island, Spain, March 10-15, 2002; 1st Annual International IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology, Lyon, France, Oct 12-14, 2000;

#### **Other merits**

- 2 times Gordon conference speaker: 2005, Analytical chemistry, Roscoff, France, June 13-17; 2013, Physics and chemistry of Microfluidics, Lucca (Barga), Italy, June 9-14
- Co-founder of the Chemical and Biological MicroSystems Society in 2005 - [www.cbmsociety.org](http://www.cbmsociety.org).
- Co-founder of Swedish Proteomics Society, 2002
- Top ranked in the Swedish Research Council evaluation of Swedish biotechnology research, 2003

#### **Evaluation/reviewing**

- 1 Expert reviewer for the Nobel Committee in Chemistry
- 2 Expert reviewer ERC Starting Grant, Life Science panel 7, 2013
- 3 PhD-thesis opponent nine times
- 4 Evaluator for Professor chairs at six occasions.
- 5 Expert review panel for The Danish Strategic Research Council – Strategiske Vaexteknologier., 2012-17
- 6 Reviewer for: Statens Teknisk- Videnskapslige Forskningsråd, Denmark 1999
- 7 Reviewer for: FOM: Fundamental Onderzoek der Materie, Utrecht, Netherlands, 2000
- 8 Scientific evaluation committee of VR – Biotech. 2001, 02, 03, 05, 06, 07; Med. Tech 2008-09
- 9 Scientific evaluation committee for Vinnova – BioNanoIT- 2002; Vinnova – IFFH 2008-09
- 10 Scientific evaluation committee for SSF, Future research leaders 2007
- 11 Member of the evaluation board for the Pedagogic Academy at Lund Institute of Technology, 2003

#### **Scientific journal editorial boards**

Editorial board Micromachines since 2016

Editorial board Sensors and Actuators B Chemical since 2003

Editorial board Current Analytical Chemistry since 2004

Editorial board for Electrophoresis, 2005-2017

European associate editor for NanoBiotechnology, Humana Press, 2004-2008

Editorial board for Proteomics 2000-2004

#### **Pedagogic skills**

2002 Degree of Excellent Teaching Practice and member of the Pedagogic Academy, Lund University