

1. PERSONAL DETAILS

Name: Hautaniemi, Sampsa Kalervo

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2. EDUCATION AND DEGREES COMPLETED**Degrees**

01/01-12/03 DTech in Computer Science, Tampere University of Technology, Finland

09/95-06/00 MSc (Eng.) in Automation, Tampere University of Technology, Finland

Titles of Docent

01/08 Docent (medical systems biology and bioinformatics) in Faculty of Medicine and Faculty of Science, Univ. of Helsinki, Finland

06/07 Docent (bioinformatics) in Dept. of Computer Science, Aalto Univ., Finland

International researcher education

04/04-04/06 Post-doctoral associate Biological Engineering, Massachusetts Institute of Technology, USA

09/01-03/02 Visiting researcher, National Human Genome Research Institute (NHGRI), National Institutes of Health, USA

3. CURRENT POSITION

01/13- Professor of Systems Biology, Faculty of Medicine, Univ. of Helsinki, Finland

01/19- Director of Research Program in Systems Oncology (ONCOSYS), Faculty of Medicine, Univ. of Helsinki

4. PREVIOUS WORK EXPERIENCE

2013-2014 Director (acting) of Research Programs Unit, Faculty of Medicine, Univ. of Helsinki

09/08-08/13 Academy research fellow, Academy of Finland & Univ. of Helsinki

04/06-01/13 Research director, Univ. of Helsinki

5. RESEARCH FUNDING AND FIVE MOST IMPORTANT GRANTS

2006 – 2024 Successfully applied >14M€ competitive funding (Academy of Finland, EU, foundations *etc.*). Recent major external research grants:

02/21-02/26 Coordinator of EU Horizon 2020 grant for DECIDER: Clinical Decision via Integrating Multiple Data Levels to Overcome Chemotherapy Resistance in High-Grade Serous Ovarian Cancer (4.3M€). DECIDER total budget: 15M€ for 14 partners.

01/20-12/23 Co-PI of EU Horizon 2020 project RESCUER: Resistance under combinatorial treatment in ER+ and ER- breast cancer (500k€)

12/19-12/22 Cancer Foundation Finland large grant: Precision oncology in ovarian cancer (450k€)

09/19-08/23 Academy of Finland project: Computational methods to identify clinically actionable alterations from liquid biopsies in chemotherapy resistant ovarian cancer (600k€)

01/16-12/20 Coordinator of EU Horizon 2020 grant for HERCULES: Comprehensive characterization and effective combinatorial targeting of high-grade serous ovarian cancer via single-cell analysis (1.3M€). HERCULES total budget: 6M€ for 8 partners.

6. SUPERVISION EXPERIENCE**Supervision of postdoctoral, postgraduate and undergraduate students**

on-going Supervising 4 postdocs, 12 PhD students, 2 MSc students

2006- Supervised 7 post-docs

2012- Supervised 14 PhD thesis projects, 2 approved with distinction

2007- Supervised 19 MSc thesis projects

2007- Supervised 6 BSc/MD thesis projects

7. MOST RECENT TEACHING EXPERIENCE**University of Helsinki, Faculty of Medicine, Institute of Biomedicine**

- 2018- Responsible teacher and lecturer on The Master's Degree Programme in Life Science Informatics (LSI) course *LSI36001 Clinical Data Mining*
- 2011- Responsible teacher and lecturer on the post-graduate level course *30482 Introduction to Systems Biology* (even years) & *LSI36002 Systems Medicine Seminar* (odd years)
- 2011- Responsible teacher and lecturer on The Master's Degree Programme in Translational Medicine (TRANSMED) course *TMED-915 Introduction to Bioinformatics*

8. AWARDS AND HONOURS

- 2014 Anders Jahre young investigator prize
- 2011 The Finnish Medical Foundation 50-years jubileum award (with Dr Tea Vallenius)

9. OTHER KEY SCIENTIFIC OR ACADEMIC MERITS**Service as pre-examiner, opponent and in dissertation committees**

- 2020- Examiner of 8 tenure-track/professor evaluations in Finland, Sweden, Norway
- 2011- Examiner for 6 title of docents applications in Finland
- 2009- PhD thesis opponent: 2 times in Finland, 3 times in Norway, 1 time in Italy
- 2009- PhD thesis pre-examiner 15 times
- 2009- Member of 10 PhD student thesis committees.

Evaluation of scientific merit, awards and grant applications (most recent)

- 2024 Scientific Advisory Board member of Data-Driven Discovery for Women's Cancer workshop, Cancer Research UK, Cambridge Centre
- 2023 Scientific Committee member for the SWISS BRIDGE AWARD
- 2021- Scientific Advisory Board member in Finnish Cancer Institute
- 2015-2024 *Ad hoc* reviewer: Netherlands Organisation for Scientific Research (NWO), Austrian Science Fund (FWF), Anders Jahre Prize, Singapore National Research Foundation, Israel Science Foundation, ERC Starting Grant, Swiss National Science Foundation, Polish National Science Centre, Estonian Research Council, ERA-NET
- 2015-2019 Reviewer and board member for Norwegian Cancer Society (Clinical research II)
- 2014-2023 Grants Committee and Evaluation Committee member in Cancer Foundation Finland
- 2013-2021 Reviewer and board member for several German Federal Ministry of Education and Research (BMBF) calls: e:Bio, e:Med and e:Med networking fund

Editorial board memberships and peer review for scientific journals

- 2024 Program committee member of 23rd European Conference on Computational Biology, Turku, Finland
- 2012-2015 Member of the editorial board for scientific journal *Systems Biomedicine*
- 2003- *Ad hoc* reviewer for a number of scientific journals, such as *Nature Methods* (4), *Bioinformatics* (22), *Cancer Research* (2), *Briefings in Bioinformatics* (3), *PLOS Computational Biology* (3), *Genome Medicine* (2), *Science Signaling*, *Nature Computational Science*, *etc.*

Administrative responsibilities (most recent)

- 2020- Member of Research Council, Faculty of Medicine, University of Helsinki
- 2020- Vice-member of Faculty Council, Faculty of Medicine, University of Helsinki
- 2020- Member of the University of Helsinki's steering board for Digitalization
- 2020- Member of the national network of Digital Wellbeing (HYTEAIRO) by Ministry of Social Affairs and Health
- 2018- University of Helsinki of coordinator in National Cancer Center Finland South

- 2018- Member of board & Systems Medicine study track responsible of Life Science Informatics (LSI) MSc program
- 2017-2021 Member of Ministry of Education and Culture's steering group for data management and high-performance computing
- 2013-2017 Member of the Integrative Life Science Doctoral Program (ILS) board

Recent invited lectures

- 2025 Invited speaker in Biotech Research & Innovation Centre (BRIC) seminar, Denmark
- 2024 Invited speaker in Comprehensive Cancer Center seminar of U of Chicago, USA
- 2023 Invited speaker in 7th Scandinavian Pathology conference, Helsinki, Finland
- 2022 Keynote speaker in the Finnish Bioinformatics Society annual meeting, Espoo, Finland
- 2021 Invited speaker in AACR Ovarian cancer symposium, USA. Remote
- 2020 Invited speaker in IBiS Seminar Series, Spain. Remote

10. RESEARCH OUTPUT

Published >200 journal articles that are cited >8,100 times (data from Web of Science; Google Scholar lists >12,800 citations). H-index: 51 (data from Web of Science; Google Scholar gives 60 as the H-index).