INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI 2005–2010

RC-Specific Evaluation of PURE – Public Health and Epidemiology Research Community

Seppo Saari & Antti Moilanen (Eds.)
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Summary:
Researcher Community (RC) was a new concept of the participating unit in the evaluation. Participation in the evaluation was voluntary and the RCs had to choose one of the five characteristic categories to participate.

Evaluation of the Researcher Community was based on the answers to the evaluation questions. In addition a list of publications and other activities were provided by the TUHAT system. The CWTS/Leiden University conducted analyses for 80 RCs and the Helsinki University Library for 66 RCs. Panellists, 49 and two special experts in five panels evaluated all the evaluation material as a whole and discussed the feedback for RC-specific reports in the panel meetings in Helsinki. The main part of this report is consisted of the feedback which is published as such in the report.

Chapters in the report:
1. Background for the evaluation
2. Evaluation feedback for the Researcher Community
3. List of publications
4. List of activities
5. Bibliometric analyses

The level of the RCs’ success can be concluded from the written feedback together with the numeric evaluation of four evaluation questions and the category fitness. More conclusions of the success can be drawn based on the University-level report.

RC-specific information:
Main scientific field of research: Medicine, Biomedicine and Health Sciences
Participation category:
1. Research of the participating community represents the international cutting edge in its field

RC’s responsible person:
Tuomilehto, Jaakko

RC-specific keywords:
epidemiology, prevention, nutrition, physical activity, smoking, obesity, lifestyle, genetics, genetic epidemiology, gene-lifestyle interaction, controlled clinical trials, community-based interventions, diabetes, cardiovascular disease, biostatistics, pharmacoepidemiology, psychiatric epidemiology

Keywords:
Research Evaluation, Meta-evaluation, Doctoral Training, Bibliometric Analyses, Researcher Community

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Foreword

The evaluation of research and doctoral training is being carried out in the years 2010–2012 and will end in 2012. The steering group appointed by the Rector in January 2010 set the conditions for participating in the evaluation and prepared the Terms of Reference to present the evaluation procedure and criteria. The publications and other scientific activities included in the evaluation covered the years 2005–2010.

The participating unit in the evaluation was defined as a Researcher Community (RC). To obtain a critical mass with university-level impact, the number of members was set to range from 20 to 120. The RCs were required to contain researchers in all stages of their research career, from doctoral students to principal investigators (PIs). All in all, 136 Researcher Communities participated in this voluntary evaluation, 5857 persons in total, of whom 1131 were principal investigators. PIs were allowed to participate in two communities in certain cases, and 72 of them used this opportunity and participated in two RCs.

This evaluation enabled researchers to define RCs from the “bottom up” and across disciplines. The aim of the evaluation was not to assess individual performance but a community with shared aims and researcher-training activities. The RCs were able to choose among five different categories that characterised the status and main aims of their research. The steering group considered the process of applying to participate in the evaluation to be important, which lead to the establishment of these categories. In addition, providing a service for the RCs to enable them to benchmark their research at the global level was a main goal of the evaluation.

The data for the evaluation consisted of the RCs’ answers to evaluation questions on supplied e-forms and a compilation extracted from the TUHAT – Research Information System (RIS) on 12 April 2011. The compilation covered scientific and other publications as well as certain areas of scientific activities. During the process, the RCs were asked to check the list of publications and other scientific activities and make corrections if needed. These TUHAT compilations are public and available on the evaluation project sites of each RC in the TUHAT-RIS.

In addition to the e-form and TUHAT compilation, University of Leiden (CWTS) carried out bibliometric analyses from the articles included in the Web of Science (WoS). This was done on University and RC levels. In cases where the publication forums of the RC were clearly not represented by the WoS data, the Library of the University of Helsinki conducted a separate analysis of the publications. This was done for 66 RCs representing the humanities and social sciences.

The evaluation office also carried out an enquiry targeted to the supervisors and PhD candidates about the organisation of doctoral studies at the University of Helsinki. This and other documents describing the University and the Finnish higher education system were provided to the panellists.

The panel feedback for each RC is unique and presented as an entity. The first collective evaluation reports available for the whole panel were prepared in July–August 2011. The reports were accessible to all panel members via the electronic evaluation platform in August. Scoring from 1 to 5 was used to complement written feedback in association with evaluation questions 1–4 (scientific focus and quality, doctoral training, societal impact, cooperation) and in addition to the category evaluating the fitness for participation in the evaluation. Panellists used the international level as a point of comparison in the evaluation. Scoring was not expected to go along with a preset deviation.

Each of the draft reports were discussed and dealt with by the panel in meetings in Helsinki (from 11 September to 13 September or from 18 September to 20 September 2011). In these meetings the panels also examined the deviations among the scores and finalised the draft reports together.

The current RC-specific report deals shortly with the background of the evaluation and the terms of participation. The main evaluation feedback is provided in the evaluation report, organised according to the evaluation questions. The original material provided by the RCs for the panellists has been attached to these documents.
On behalf of the evaluation steering group and office, I sincerely wish to thank you warmly for your participation in this evaluation. The effort you made in submitting the data to TUHAT-RIS is gratefully acknowledged by the University. We wish that you find this panel feedback useful in many ways. The bibliometric profiles may open a new view on your publication forums and provide a perspective for discussion on your choice of forums. We especially hope that this evaluation report will help you in setting the future goals of your research.

Johanna Björkroth  
Vice-Rector  
Chair of the Steering Group of the Evaluation

Steering Group of the evaluation  
Steering group, nominated by the Rector of the University, was responsible for the planning of the evaluation and its implementation having altogether 22 meetings between February 2010 and March 2012.

Chair  
Vice-Rector, professor Johanna Björkroth

Vice-Chair  
Professor Marja Airaksinen

Chief Information Specialist, Dr Maria Forsman  
Professor Arto Mustajoki  
University Lecturer, Dr Kirsi Pyhältö  
Director of Strategic Planning and Development, Dr Ossi Tuomi  
Doctoral candidate, MSocSc Jussi Vauhkonen
Panel members

CHAIR
Professor Lorenz Poellinger
Cancer biology, cell and molecular biology
Karolinska Institute, Sweden

VICE-CHAIR
Professor Cornelia van Duijn
Genetic epidemiology, Alzheimer’s disease and related disorders
Erasmus Medical Centre, the Netherlands

Professor Johanna Ivaska
Molecular cell biology, cell adhesion, cancer biology
University of Turku, VTT Technical Research Centre, Finland

Professor Olli Lassila
Immunology, medical microbiology
University of Turku, Finland

Professor Hans-Christian Pape
Neuroscience, neurophysiology
University of Münster, Germany

Professor Thomas Ruzicka
Dermatology, allergology
Ludwig-Maximilians-Universität (LMU) München, Germany

Professor Lars Terenius
Experimental alcohol and drug dependence research, mental disorders, preventive medicine
Karolinska Institute, Sweden

Professor Peter York
Physical pharmaceutics, pharmaceutical chemistry, pharmaceutical technology
University of Bradford, Great Britain

The panel, independently, evaluated all the submitted material and was responsible for the feedback of the RC-specific reports. The panel members were asked to confirm whether they had any conflict of interests with the RCs. If this was the case, the panel members disqualified themselves in discussion and report writing.

Added expertise to the evaluation was contributed by two evaluators outside the panels and by three members from the other panels.

External Experts
Professor Olli Carpén
Pathology, cancer cell metastasis
University of Turku
Finland

Professor Anders Linde
Oral biochemistry
Faculty of Odontology
Göteborg University
Sweden
Experts from the Other Panels
Professor Jan-Otto Carlsson, from the Panel of Natural Sciences
Professor Danny Huylebroek, from the Panel of Biological, Agricultural and Veterinary Sciences
Professor Holger Stark, from the Panel of Natural Sciences

EVALUATION OFFICE
Dr Seppo Saari, Doc., Senior Adviser in Evaluation, was responsible for the entire evaluation, its planning and implementation and acted as an Editor-in-chief of the reports.
Dr Eeva Sievi, Doc., Adviser, was responsible for the registration and evaluation material compilations for the panellists. She worked in the evaluation office from August 2010 to July 2011.
MScSc Paula Ranne, Planning Officer, was responsible for organising the panel meetings and all the other practical issues like agreements and fees and editing a part the RC-specific reports. She worked in the evaluation office from March 2011 to January 2012.
Mr Antti Mollanen, Project Secretary, was responsible for editing the reports. He worked in the evaluation office from January 2012 to April 2012.

TUHAT OFFICE
Provision of the publication and other scientific activity data
Mrs Aija Kaitera, Project Manager of TUHAT-RIS served the project ex officio providing the evaluation project with the updated information from TUHAT-RIS. The TUHAT office assisted in mapping the publications with CWTS/University of Leiden.
MA Liisa Ekebom, Assisting Officer, served in TUHAT-RIS updating the publications for the evaluation. She also assisted the UH/Library analyses.
BA Liisa Jäppinen, Assisting Officer, served in TUHAT-RIS updating the publications for the evaluation.

HELSINKI UNIVERSITY LIBRARY
Provision of the publication analyses
Dr Maria Forsman, Chief Information Specialist in the Helsinki University Library, managed with her 10 colleagues the bibliometric analyses in humanities, social sciences and in other fields of sciences where CWTS analyses were not applicable.
Acronyms and abbreviations applied in the report

External competitive funding
AF – Academy of Finland  
TEKES - Finnish Funding Agency for Technology and Innovation  
EU - European Union  
ERC - European Research Council  
International and national foundations  
FP7/6 etc./Framework Programmes/Funding of European Commission

Evaluation marks
Outstanding (5)  
Excellent (4)  
Very Good (3)  
Good (2)  
Sufficient (1)

Abbreviations of Bibliometric Indicators
P - Number of publications  
TCS – Total number of citations  
MCS - Number of citations per publication, excluding self-citations  
PNC - Percentage of uncited publications  
MNCS - Field-normalized number of citations per publication  
MNJS - Field-normalized average journal impact  
THCP10 - Field-normalized proportion highly cited publications (top 10%)  
INT_COV - Internal coverage, the average amount of references covered by the WoS  
WoS – Thomson Reuters Web of Science Databases

Participation category
Category 1. The research of the participating community represents the international cutting edge in its field.  
Category 2. The research of the participating community is of high quality, but the community in its present composition has yet to achieve strong international recognition or a clear break-through.  
Category 3. The research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation.  
Category 4. The research of the participating community represents an innovative opening.  
Category 5. The research of the participating community has a highly significant societal impact.

Research focus areas of the University of Helsinki
Focus area 1: The basic structure, materials and natural resources of the physical world  
Focus area 2: The basic structure of life  
Focus area 3: The changing environment – clean water  
Focus area 4: The thinking and learning human being  
Focus area 5: Welfare and safety  
Focus area 6: Clinical research  
Focus area 7: Precise reasoning  
Focus area 8: Language and culture  
Focus area 9: Social justice  
Focus area 10: Globalisation and social change
1 Introduction to the Evaluation

1.1 RC-specific evaluation reports

The participants in the evaluation of research and doctoral training were Researcher Communities (hereafter referred to as the RC). The RC refers to the group of researchers who registered together in the evaluation of their research and doctoral training. Preconditions in forming RCs were stated in the Guidelines for the Participating Researcher Communities. The RCs defined themselves whether their compositions should be considered well-established or new.

It is essential to emphasise that the evaluation combines both meta-evaluation\(^1\) and traditional research assessment exercise and its focus is both on the research outcomes and procedures associated with research and doctoral training. The approach to the evaluation is enhancement-led where self-evaluation constituted the main information. The answers to the evaluation questions formed together with the information of publications and other scientific activities an entity that was to be reviewed as a whole.

The present evaluation recognizes and justifies the diversity of research practices and publication traditions. Traditional Research Assessment Exercises do not necessarily value high quality research with low volumes or research distinct from mainstream research. It is challenging to expose the diversity of research to fair comparison. To understand the essence of different research practices and to do justice to their diversity was one of the main challenges of the present evaluation method. Understanding the divergent starting points of the RCs demanded sensitivity from the evaluators.

1.2 Aims and objectives in the evaluation

The aims of the evaluation are as follows:

- to improve the level of research and doctoral training at the University of Helsinki and to raise their international profile in accordance with the University’s strategic policies. The improvement of doctoral training should be compared to the University’s policy.\(^2\)
- to enhance the research conducted at the University by taking into account the diversity, originality, multidisciplinary nature, success and field-specificity,
- to recognize the conditions and prerequisites under which excellent, original and high-impact research is carried out,
- to offer the academic community the opportunity to receive topical and versatile international peer feedback,
- to better recognize the University’s research potential.
- to exploit the University’s TUHAT research information system to enable transparency of publishing activities and in the production of reliable, comparable data.

1.3 Evaluation method

The evaluation can be considered as an enhancement-led evaluation. Instead of ranking, the main aim is to provide useful information for the enhancement of research and doctoral training of the participating RCs. The comparison should take into account each field of science and acknowledge their special character.

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\(^1\) The panellists did not read research reports or abstracts but instead, they evaluated answers to the evaluation questions, tables and compilations of publications, other scientific activities, bibliometrics or comparable analyses.

\(^2\) Policies on doctoral degrees and other postgraduate degrees at the University of Helsinki.
The comparison produced information about the present status and factors that have lead to success. Also challenges in the operations and outcomes were recognized.

The evaluation approach has been designed to recognize better the significance and specific nature of researcher communities and research areas in the multidisciplinary top-level university. Furthermore, one of the aims of the evaluation is to bring to light those evaluation aspects that differ from the prevalent ones. Thus the views of various fields of research can be described and research arising from various starting points understood better. The doctoral training is integrated into the evaluation as a natural component related to research. Operational processes of doctoral training are being examined in the evaluation.

**Five stages of the evaluation method were:**

1. Registration – Stage 1
2. Self-evaluation – Stage 2
3. TUHAT\(^3\) compilations on publications and other scientific activities\(^4\)
4. External evaluation
5. Public reporting

### 1.4 Implementation of the external evaluation

**Five Evaluation Panels**

Five evaluation panels consisted of independent, renowned and highly respected experts. The main domains of the panels are:

1. biological, agricultural and veterinary sciences
2. medicine, biomedicine and health sciences
3. natural sciences
4. humanities
5. social sciences

The University invited 10 renowned scientists to act as chairs or vice-chairs of the five panels based on the suggestions of faculties and independent institutes. Besides leading the work of the panel, an additional role of the chairs was to discuss with other panel chairs in order to adopt a broadly similar approach. The panel chairs and vice-chairs had a pre-meeting on 27 May 2011 in Amsterdam.

The panel compositions were nominated by the Rector of the University 27 April 2011. The participating RCs suggested the panel members. The total number of panel members was 50. The reason for a smaller number of panellists as compared to the previous evaluations was the character of the evaluation as a meta-evaluation. The panellists did not read research reports or abstracts but instead, they evaluated answers to the evaluation questions, tables and compilations of publications, other scientific activities, bibliometrics and comparable analyses.

The panel meetings were held in Helsinki:

- On 11–13 September 2011: (1) biological, agricultural and veterinary sciences, (2) medicine, biomedicine and health sciences and (3) natural sciences.
- On 18–20 September 2011: (4) humanities and (5) social sciences.

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\(^3\) TUHAT (acronym) of Research Information System (RIS) of the University of Helsinki

\(^4\) Supervision of thesis, prizes and awards, editorial work and peer reviews, participation in committees, boards and networks and public appearances.
1.5 Evaluation material

The main material in the evaluation was the RCs’ self-evaluations that were qualitative in character and allowed the RCs to choose what was important to mention or emphasise and what was left unmentioned. The present evaluation is exceptional at least in the Finnish context because it is based on both the evaluation documentation (self-evaluation questions, publications and other scientific activities) and the bibliometric reports. All documents were delivered to the panelists for examination.

Traditional bibliometrics can be reasonably done mainly in medicine, biosciences and natural sciences when using the Web of Science database, for example. Bibliometrics, provided by CWTS/The Centre for Science and Technology Studies, University of Leiden, cover only the publications that include WoS identification in the TUHAT-RIS.

Traditional bibliometrics are seldom relevant in humanities and social sciences because the international comparable databases do not store every type of high quality research publications, such as books and monographs and scientific journals in other languages than English. The Helsinki University Library has done analysis to the RCs, if their publications were not well represented in the Web of Science databases (RCs should have at least 50 publications and internal coverage of publications more than 40%) – it meant 58 RCs. The bibliometric material for the evaluation panels was available in June 2011. The RC-specific bibliometric reports are attached at the end of each report.

The panels were provided with the evaluation material and all other necessary background information, such as the basic information about the University of Helsinki and the Finnish higher education system.

Evaluation material

1. Registration documents of the RCs for the background information
2. Self evaluation material – answers to the evaluation questions
3. Publications and other scientific activities based on the TUHAT RIS:
   3.1. statistics of publications
   3.2. list of publications
   3.3. statistics of other scientific activities
   3.4. list of other scientific activities
4. Bibliometrics and comparable analyses:
   4.1. Analyses of publications based on the verification of TUHAT-RIS publications with the Web of Science publications (CWTS/University of Leiden)
   4.2. Publication statistics analysed by the Helsinki University Library - mainly for humanities and social sciences
5. University level survey on doctoral training (August 2011)
6. University level analysis on publications 2005–2010 (August 2011) provided by CWTS/University of Leiden

Background material

University of Helsinki
- Basic information about the University of the Helsinki
- The structure of doctoral training at the University of Helsinki
- Previous evaluations of research at the University of Helsinki – links to the reports: 1998 and 2005

The Finnish Universities/Research Institutes
- Finnish University system
- Evaluation of the Finnish National Innovation System
- The State and Quality of Scientific Research in Finland. Publication of the Academy of Finland 9/09.

The evaluation panels were provided also with other relevant material on request before the meetings in Helsinki.
1.6 Evaluation questions and material

The participating RCs answered the following evaluation questions which are presented according to the evaluation form. In addition, TUHAT RIS was used to provide the additional material as explained. For giving the feedback to the RCs, the panellists received the evaluation feedback form constructed in line with the evaluation questions:

1. Focus and quality of the RC’s research
   - Description of
     - the RC’s research focus.
     - the quality of the RC’s research (incl. key research questions and results)
     - the scientific significance of the RC’s research in the research field(s)
   - Identification of the ways to strengthen the focus and improve the quality of the RC’s research

The additional material: TUHAT compilation of the RC’s publications, analysis of the RC’s publications data (provided by University of Leiden and the Helsinki University Library)
A written feedback from the aspects of: scientific quality, scientific significance, societal impact, innovativeness
   - Strengths
   - Areas of development
   - Other remarks
   - Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

2. Practices and quality of doctoral training
   - Organising of the doctoral training in the RC. Description of the RC’s principles for:
     - recruitment and selection of doctoral candidates
     - supervision of doctoral candidates
     - collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes
     - good practises and quality assurance in doctoral training
   - Identification of the ways to strengthen the societal impact of the RC’s research and doctoral training.

The additional material: TUHAT compilation of the RC’s other scientific activities/supervision of doctoral dissertations
A written feedback from the aspects of: processes and good practices related to leadership and management
   - Strengths
   - Areas of development
   - Other remarks
   - Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

3. The societal impact of research and doctoral training
   - Description on how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).
   - Identification of the ways to strengthen the societal impact of the RC’s research and doctoral training.

The additional material: TUHAT compilation of the RC’s other scientific activities.
A written feedback from the aspects of: societal impact, national and international collaboration, innovativeness
   - Strengths
   - Areas of development
   - Other remarks
   - Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)
4. International and national (incl. intersectoral) research collaboration and researcher mobility
   - Description of
     - the RC’s research collaborations and joint doctoral training activities
     - how the RC has promoted researcher mobility
   - Identification of the RC’s strengths and challenges related to research collaboration and
     researcher mobility, and the actions planned for their development.

A written feedback from the aspects of: scientific quality, national and international collaboration
   - Strengths
   - Areas of development
   - Other remarks
   - Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

5. Operational conditions
   - Description of the operational conditions in the RC’s research environment (e.g. research
     infrastructure, balance between research and teaching duties).
   - Identification of the RC’s strengths and challenges related to operational conditions, and the
     actions planned for their development.

A written feedback from the aspects of: processes and good practices related to leadership and
management
   - Strengths
   - Areas of development
   - Other remarks
   - Recommendations

6. Leadership and management in the researcher community
   - Description of
     - the execution and processes of leadership in the RC
     - how the management-related responsibilities and roles are distributed in the RC
     - how the leadership- and management-related processes support
       - high quality research
       - collaboration between principal investigators and other researchers in the RC
       - the RC’s research focus
       - strengthening of the RC’s know-how
   - Identification of the RC’s strengths and challenges related to leadership and management, and
     the actions planned for developing the processes

7. External competitive funding of the RC
   - The RCs were asked to provide information of such external competitive funding, where:
     - the funding decisions have been made during 1.1.2005-31.12.2010, and
     - the administrator of the funding is/has been the University of Helsinki
   - On the e-form the RCs were asked to provide:
     1) The relevant funding source(s) from a given list (Academy of Finland/Research Council, TEKES/The
        Finnish Funding Agency for Technology and Innovation, EU, ERC, foundations, other national funding
        organisations, other international funding organisations), and
     2) The total sum of funding which the organisation in question had decided to allocate to the RCs

Competitive funding reported in the text is also to be considered when evaluating this point.
A written feedback from the aspects of: scientific quality, scientific significance, societal impact,
innovativeness, future significance
   - Strengths
   - Areas of development
   - Other remarks
   - Recommendations

8. The RC’s strategic action plan for 2011–2013
   - RC’s description of their future perspectives in relation to research and doctoral training.
   - A written feedback from the aspects of: scientific quality, scientific significance, societal impact, processes
     and good practices related to leadership and management, national and international collaboration,
     innovativeness, future significance
   - Strengths
   - Areas of development
9. Evaluation of the category of the RC in the context of entity of the evaluation material (1-8)

The RC's fitness to the chosen participation category
A written feedback evaluating the RC's fitness to the chosen participation category
- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

10. Short description of how the RC members contributed the compilation of the stage 2 material
Comments on the compilation of evaluation material

11. How the UH's focus areas are presented in the RC's research?
Comments if applicable

12. RC-specific main recommendations based on the previous questions 1-11

13. RC-specific conclusions

1.7 Evaluation criteria

The panellists were expected to give evaluative and analytical feedback to each evaluation question according to their aspects in order to describe and justify the quality of the submitted material. In addition, the evaluation feedback was asked to be pointed out the level of the performance according to the following classifications:
- outstanding (5)
- excellent (4)
- very good (3)
- good (2)
- sufficient (1)

Evaluation according to the criteria was to be made with thorough consideration of the entire evaluation material of the RC in question. Finally, in questions 1-4 and 9, the panellists were expected to classify their written feedback into one of the provided levels (the levels included respective descriptions, 'criteria'). Some panels used decimals in marks. The descriptive level was interpreted according to the integers and not rounding up the decimals by the editors.

Description of criteria levels

Question 1 – FOCUS AND QUALITY OF THE RC’S RESEARCH

Classification: Criteria (level of procedures and results)

Outstanding quality of procedures and results (5)

Outstandingly strong research, also from international perspective. Attracts great international interest with a wide impact, including publications in leading journals and/or monographs published by leading international publishing houses. The research has world leading qualities. The research focus, key research questions scientific significance, societal impact and innovativeness are of outstanding quality.

In cases where the research is of a national character and, in the judgement of the evaluators, should remain so, the concepts of "international attention" or "international impact" etc. in the grading criteria above may be replaced by "international comparability".
Operations and procedures are of outstanding quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are in alignment with the documentation. The ambition to develop the community together is of outstanding quality.

**Excellent quality of procedures and results (4)**

Research of excellent quality. Typically published with great impact, also internationally. Without doubt, the research has a leading position in its field in Finland.

Operations and procedures are of excellent quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of excellent quality.

**Very good quality of procedures and results (3)**

The research is of such very good quality that it attracts wide national and international attention.

Operations and procedures are of very good quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of very good quality.

**Good quality of procedures and results (2)**

Good research attracting mainly national attention but possessing international potential, extraordinarily high relevance may motivate good research.

Operations and procedures are of good quality, shared occasionally in the community. The improvement of research and other efforts are occasionally documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of good quality.

**Sufficient quality of procedures and results (1)**

In some cases the research is insufficient and reports do not gain wide circulation or do not have national or international attention. Research activities should be revised.

Operations and procedures are of sufficient quality, shared occasionally in the community. The improvement of research and other efforts are occasionally documented and operations and practices are to some extent in alignment with the documentation. The ambition to develop the community together is of sufficient quality.

**Question 2 – DOCTORAL TRAINING**

**Question 3 – SOCIETAL IMPACT**

**Question 4 – COLLABORATION**

**Classification: Criteria (level of procedures and results)**

**Outstanding quality of procedures and results (5)**

Procedures are of outstanding quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are in alignment with the documentation. The ambition to develop the community together is of outstanding quality. The procedures and results are regularly evaluated and the feedback has an effect on the planning.

**Excellent quality of procedures and results (4)**

Procedures are of excellent quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of excellent quality. The procedures and outcomes are evaluated and the feedback has an effect on the planning.

**Very good quality of procedures and results (3)**

Procedures are of very good quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and
management are documented and operations and practices are to large extent in alignment with the
documentation. The ambition to develop the community together is of very good quality.

**Good quality of procedures and results (2)**

Procedures are of good quality, shared occasionally in the community. The practices and quality of
doctoral training/societal impact/international and national collaboration/leadership and
management are documented and operations and practices are to large extent in alignment with the
documentation. The ambition to develop the community together is of very good quality.

**Sufficient quality of procedures and results (1)**

Procedures are of sufficient quality, transparent and shared in the community. The practices and
quality of doctoral training/societal impact/international and national collaboration/leadership and
management are occasionally documented and operations and practices are to some extent in
alignment with the documentation. The ambition to develop the community together is of sufficient
quality.

**Question 9 – CATEGORY**

Participation category – fitness for the category chosen

The choice and justification for the chosen category below should be reflected in the RC’s responses to the
evaluation questions 1–8.

1. *The research of the participating community represents the international cutting edge in its field.*
2. *The research of the participating community is of high quality, but the community in its present
   composition has yet to achieve strong international recognition or a clear break-through.*
3. *The research of the participating community is distinct from mainstream research, and the special
   features of the research tradition in the field must be considered in the evaluation.* The research is
   of high quality and has great significance and impact in its field. However, the generally used
   research evaluation methods do not necessarily shed sufficient light on the merits of the
   research.
4. *The research of the participating community represents an innovative opening.* A new opening can
   be an innovative combination of research fields, or it can be proven to have a special social,
   national or international demand or other significance. Even if the researcher community in its
   present composition has yet to obtain proof of international success, its members can produce
   convincing evidence of the high level of their previous research.
5. *The research of the participating community has a highly significant societal impact.* The
   participating researcher community is able to justify the high social significance of its research.
   The research may relate to national legislation, media visibility or participation in social debate,
   or other activities promoting social development and human welfare. In addition to having
   societal impact, the research must be of a high standard.

**An example of outstanding fitness for category choice (5)**

The RC’s representation and argumentation for the chosen category were convincing. The RC recognized
its real capacity and apparent outcomes in a wider context to the research communities. The specific
character of the RC was well-recognized and well stated in the responses. The RC fitted optimally for the
category.

- Outstanding (5)
- Excellent (4)
- Very good (3)
- Good (2)
- Sufficient (1)

The above-mentioned definition of outstanding was only an example in order to assist the panellists in
the positioning of the classification. There was no exact definition for the category fitness.

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5 The panels discussed the category fitness and made the final conclusions of the interpretation of it.
1.8 Timetable of the evaluation

The main timetable of the evaluation:

1. Registration  
   - November 2010

2. Submission of self-evaluation materials  
   - January–February 2011

3. External peer review  
   - May–September 2011

4. Published reports  
   - University level public report  
     - March–April 2012
   - RC specific reports

The entire evaluation was implemented during the university’s strategy period 2010–2012. The preliminary results were available for the planning of the following strategy period in late autumn 2011. The evaluation reports will be published in March/April 2012. More detailed time schedule is published in the University report.

1.9 Evaluation feedback – consensus of the entire panel

The panellists evaluated all the RC-specific material before the meetings in Helsinki and mailed the draft reports to the evaluation office. The latest interim versions were on-line available to all the panellists on the Wiki-sites. In September 2011, in Helsinki the panels discussed the material, revised the first draft reports and decided the final numeric evaluation. After the meetings in Helsinki, the panels continued working and finalised the reports before the end of November 2011. The final RC-specific reports are the consensus of the entire panel.

The evaluation reports were written by the panels independently. During the editing process, the evaluation office requested some clarifications from the panels when necessary. The tone and style in the reports were not harmonized in the editing process. All the reports follow the original texts written by the panels as far as it was possible.

The original evaluation material of the RCs, provided for the panellists is attached at the end of the report. It is essential to notice that the exported lists of publications and other scientific activities depend how the data was stored in the TUHAT-RIS by the RCs.
2 Evaluation feedback

2.1 Focus and quality of the RC’s research

- **Description of**
  - the RC’s research focus
  - the quality of the RC’s research (incl. key research questions and results)
  - the scientific significance of the RC’s research in the research field(s)
- **Identification of the ways to strengthen the focus and improve the quality of the RC’s research**

**ASPECTS:** Scientific quality, scientific significance, societal impact, innovativeness

The research community of Public Health and Epidemiology Research Community (PURE) represents very high level epidemiological research in Finland and also internationally. The RC has published a high number of publications related to type 2 diabetes (T2D) as well as other prevalent and chronic conditions like dementia and Alzheimer’s disease. Several of the epidemiological studies have been published in top journals like Lancet.

This is clearly a very strong RC in its field. They are experts in using large population data to produce novel findings and contribute to new practices in diagnosis and disease prevent/management guidelines also internationally.

The research topics of this RC are very relevant to society and public health. They are focusing on big problems like increasing prevalence of T2D. These researchers have already contributed to diagnosis guidelines in Finland, and these are under evaluation also elsewhere. The RC is active in communicating their findings to public via the media.

This type of research often follows rather traditional tracks and is maybe not best characterized with the word innovative. However, careful evaluation of patient data has led to new disease management guidelines and thus innovation relevant for the everyday life of people.

**Numeric evaluation:** 5 (Outstanding)

2.2 Practises and quality of doctoral training

- **Organising of the doctoral training in the RC. Description of the RC’s principles for:**
  - recruitment and selection of doctoral candidates
  - supervision of doctoral candidates
  - collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes
  - good practises and quality assurance in doctoral training
  - assuring of good career perspectives for the doctoral candidates/fresh doctorates
- **Identification of the RC’s strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.**
- **Additional material:** TUHAT compilation of the RC’s other scientific activities/supervision of doctoral dissertations

**ASPECTS:** Processes and good practices related to leadership and management

While the research is at a top level, the doctoral training seems somewhat unstructured and suffers from limited funding and difficulty in recruiting students.

It seems that students have only one supervisor and no support from a PhD supervisory committee. Nevertheless, the RC has trained many PhDs successfully, and many of these students have continued as post-docs nationally or abroad.
Possibly developing a more structured PhD student recruitment and supervision plan would help in attracting more good candidates in the future.

**Numeric evaluation: 3 (Very good)**

### 2.3 The societal impact of research and doctoral training

- **Description on how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).**
- **Identification of the ways to strengthen the societal impact of the RC’s research and doctoral training.**
- **Additional material: TUHAT compilation of the RC's other scientific activities.**

*ASPECTS: Societal impact, national and international collaboration, innovativeness*

Epidemiology related to increasingly prevalent chronic diseases like T2D is very relevant to the society as a whole. The same holds true for other topics of the RC like Alzheimer’s, dementia and the real-life performance of widely used drugs like cholesterol drugs and antidepressants.

The members of the RC have also been very active in communicating their findings to the media. They are also actively discussing with the policy makers both in Finland and also internationally.

In addition to the public sector, they have been involved in collaboration with the private sector and have worked as experts in many trust and other advisor positions.

**Numeric evaluation: 5 (Outstanding)**

### 2.4 International and national (incl. intersectoral) research collaboration and researcher mobility

- **Description of**
  - the RC’s research collaborations and joint doctoral training activities
  - how the RC has promoted researcher mobility
- **Identification of the RC’s strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.**

*ASPECTS: Scientific quality, national and international collaboration*

The members of RC have been very active internationally. They have been involved in many large international networks and have extensive international collaboration.

Both nationally and internationally they have been collaborating in top scientific projects and their expertise is appreciated worldwide.

The exchange of scientists between Finland and the rest of the world is hindered by limited funding for such exchange. This is an important point and the policymakers should take this seriously. For a small country with a difficult language, every effort should be made to promote international researcher exchange.

**Numeric evaluation: 5 (Outstanding)**

### 2.5 Operational conditions

- **Description of the operational conditions in the RC’s research environment (e.g. research infrastructure, balance between research and teaching duties).**
- **Identification of the RC’s strengths and challenges related to operational conditions, and the actions planned for their development.**

*ASPECTS: Processes and good practices related to leadership and management*
The researchers have a good balance between teaching responsibilities and research. They feel that their current position allows for sufficient time to concentrate on research. These aspects are not described in detail in the material. Thus, it is not possible to evaluate infrastructure and other resources related to their research.

### 2.6 Leadership and management in the researcher community

- **Description of**
  - the execution and processes of leadership in the RC
  - how the management-related responsibilities and roles are distributed in the RC
  - how the leadership- and management-related processes support
    - high quality research
    - collaboration between principal investigators and other researchers in the RC
    - the RC’s research focus
    - strengthening of the RC’s know-how
- **Identification of the RC’s strengths and challenges related to leadership and management, and the actions planned for developing the processes**

ASPECTS: Processes and good practices related to leadership and management

As usual, each PI in the RC has his own responsibilities mainly towards his own research. Thus it has not been necessary to develop any specific management structure.

### 2.7 External competitive funding of the RC

- **The RCs were asked to provide information of such external competitive funding, where:**
  - the funding decisions have been made during 1.1.2005–31.12.2010, and
  - the administrator of the funding is/has been the University of Helsinki
- **On the e-form the RCs were asked to provide:**
  1) The relevant funding source(s) from a given list (Academy of Finland/Research Council, TEKES/The Finnish Funding Agency for Technology and Innovation, EU, ERC, foundations, other national funding organisations, other international funding organizations), and
  2) The total sum of funding which the organisation in question had decided to allocate to the RCs members during 1.1.2005–31.12.2010.

Competitive funding reported in the text is also to be considered when evaluating this point.

ASPECTS: Scientific quality, scientific significance, societal impact, innovativeness and future significance

The funding level is high. The main funding comes from the Academy of Finland, Finnish charities, EVO and EU projects. Important funding is also secured from international sources from disease associations and also from the private sector.

It is somewhat surprising that the PIs have not been involved in ERC funded research even though their science is world class.

### 2.8 The RC’s strategic action plan for 2011–2013

- **RC’s description of their future perspectives in relation to research and doctoral training.**

ASPECTS: Scientific quality, scientific significance, societal impact, processes and good practices related to leadership and management, national and international collaboration, innovativeness, future significance
Very limited information is provided on this point. As with most research areas the research is dependent on the ability to secure outside funding. No plans on the future directions of the research are provided in the submitted material.

2.9 Evaluation of the category of the RC in the context of entity of the evaluation material (1-8)

The RC’s fitness to the chosen participation category.
Category 1. The research of the participating community represents the international cutting edge in its field.

This RC is clearly conducting research which is cutting edge in its field. The RC has an impressively long list of publications in peer-reviewed journals including large cohort based studies published in journals like Lancet. The RC has made important contributions to our understanding of prevalent chronic diseases. Their research data have been used to set up guidelines for healthcare professionals.

The RC is internationally very well connected and has a high level of national and international collaboration. They also have been able to secure outside funding from multiple sources.

The present research environment is good, and the resources are sufficient. However, there is clearly a frustration for the lack of position offered by the university to their research.

The research training could be developed more with structured follow-up possibly in the form of supervisory committees for the students. This would facilitate following up the progress of the research and also provide external input.

Numeric evaluation: 4 (Excellent)

2.10 Short description of how the RC members contributed the compilation of the stage 2 material

2.11 How the UH’s focus areas are presented in the RC’s research

Focus area 5: Welfare and safety

2.12 RC-specific main recommendations

The University of Helsinki should consider whether they would like to secure this type of research in the future by allocating some resources to the RC. However, the majority of the funding should also in the future be competitive and come from outside preferably international sources. This should not be a problem if the research continues with the same high levels as has been the case in the past 5 years.

Plans should be made to somehow strengthen the recruitment of talented and motivated students since this was mentioned as a challenge at the moment.

2.13 RC-specific conclusions

This is clearly a world-class RC which is making important epidemiological studies related to public health. As the cost of health care is a constantly increasing, problem management and possibly prevention of lifestyle related disease are important.
The willingness to contribute to public knowledge and discussion in addition to policy making should be commended on.

2.14 Preliminary findings in the University-level evaluation

The RC is clearly world-class and is doing important epidemiological research on T2D, Alzheimer’s and drug efficacy. They are involved in many large international consortia, and they have good and large population-based databases in their research. Thus, they represent very high level epidemiological research in Finland and also internationally. The RC has published a high number of publications. Several of the epidemiological studies have been published in top journals like Lancet.

This is clearly a very strong RC in its field. They are experts in using large population data to produce novel findings and contribute to new practices in diagnosis and disease prevent/management guidelines also internationally.

The RC has successfully trained many students and post-docs who have done well later in their careers. However, recruitment seems to be an issue to some extent. The panel strongly recommends the RC to consider a more structured PhD training curriculum with supervisory committees. This might help in student recruitment.

The research carried out by the RC has a high societal impact since it involves investigation of many prevalent diseases on the population level. In line with this, the RC has been actively involved in policy-making and also communicating their findings to the general public.

The RC is strongly involved in many international networks and has excessive collaboration with many outside partners. Thus, the panel only recommends continuing collaboration as it is now.

The funding situation seems good and there are many sources, both national and international, for the research. The panel was somewhat surprised that none of the PIs had ERC-funding albeit their high international standards. Applying for this kind of funding is recommended.

The plans for the future were appropriate and are likely to facilitate success also in the coming years.
3 Appendices

A. Original evaluation material
   a. Registration material – Stage 1
   b. Answers to evaluation questions – Stage 2
   c. List of publications
   d. List of other scientific activities

B. Bibliometric analyses
   a. Analysis provided by CWTS/University of Leiden
   b. Analysis provided by Helsinki University Library (66 RCs)
International evaluation of research and doctoral training at the University of Helsinki 2005-2010

RC-SPECIFIC MATERIAL FOR THE PEER REVIEW

NAME OF THE RESEARCHER COMMUNITY:
Public Health and Epidemiology Research Community (PURE)

LEADER OF THE RESEARCHER COMMUNITY:
Professor Jaakko Tuomilehto, Hjelt Institute

RC-SPECIFIC MATERIAL FOR THE PEER REVIEW:

- Material submitted by the RC at stages 1 and 2 of the evaluation
  - STAGE 1 material: RC’s registration form (incl. list of RC participants in an excel table)
  - STAGE 2 material: RC’s answers to evaluation questions
- TUHAT compilations of the RC members’ other scientific activities 1.1.2005-31.12.2010
  (analysis carried out by CWTS, Leiden University)

NB! Since Web of Science(WoS)-based bibliometrics does not provide representative results for most RCs representing humanities, social sciences and computer sciences, the publications of these RCs will be analyzed by the UH Library
(results available by the end of June, 2011)
INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 1 MATERIAL (registration form)

1 RESPONSIBLE PERSON

Name: Tuomilehto, Jaakko
E-mail:
Phone: +358405016316
Affiliation: Hjelt Institute, Department of Public Health
Street address: Mannerheimintie 172, 00300 Helsinki

2 DESCRIPTION OF THE PARTICIPATING RESEARCHER COMMUNITY (RC)

Name of the participating RC (max. 30 characters): Public Health and Epidemiology Research Community
Acronym for the participating RC (max. 10 characters): PURE
Description of the operational basis in 2005-2010 (eg. research collaboration, joint doctoral training activities) on which the RC was formed (MAX. 2200 characters with spaces): This RC has a joint doctoral training programme. It carries out research based on the common research methodology. There is a strong emphasis on prevention of major health problems. The research and training of this RC is highly multidisciplinary, and it has also a strong international collaboration.

3 SCIENTIFIC FIELDS OF THE RC

Main scientific field of the RC's research: medicine, biomedicine and health sciences
RC’s scientific subfield 1: Public, Environmental and Occupational Health
RC’s scientific subfield 2: Cardiac and Cardiovascular System
RC’s scientific subfield 3: Endocrinology and Metabolism
RC’s scientific subfield 4: Nutrition and Dietetics
Other, if not in the list: epidemiology, genetic epidemiology, neuroepidemiology, physical activity research, dementia, randomised controlled trials, pharmacoepidemiology, cancer epidemiology, psychiatric epidemiology

4 RC’S PARTICIPATION CATEGORY

Participation category: 1. Research of the participating community represents the international cutting edge in its field
Justification for the selected participation category (MAX. 2200 characters with spaces): Our RC is considered as one of the leading groups in the field epidemiology and prevention of type 2 diabetes (T2D). We are coordinating several international collaborative projects in T2D epidemiology, e.g. the European and Asian DECODE/DECODA studies that form the basis for the current classification of diabetes and glucose intolerance. We have been chosen to coordinate the worldwide "Global Burden of Diabetes" effort.
INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 1 MATERIAL (registration form)

We developed the Finnish Diabetes Risk Score that is now used throughout Europe and also outside, and it is now validated globally by the International Diabetes Federation project. We have been centrally involved in the planning, implementation and evaluation of the Finnish national T2D prevention programme, the first of its kind in the world. In addition, our expertise in T2D prevention has currently been used in many worldwide. The NIH sponsored FUSION (Finland-United States Investigation of Non-insulin dependent Diabetes) is one of the leading projects in the world aiming at identifying genes predisposing to T2D.

Our prospective studies have been instrumental in the new understanding of the development of dementia and Alzheimer’s Disease (AD), in particular the role of vascular and lifestyle risk factors.

We study the long-term health effects of human displacement on health using individual-level panel data on forced migrants and comparable non-migrants. After World War II, Finland ceded a tenth of its territory to the Soviet Union and resettled the entire population living in these areas in the remaining parts. Study is based on linking on national registers of health, family structure, and causes of death.

Pharmoepidemiologic studies are targeted on “real-world” performance of antidepressants, antipsychotics and statins, which all among the most prevalent drugs. Main target is to study effect on mortality and other end-points such as rehospitalization in out-patient populations.

5 DESCRIPTION OF THE RC’S RESEARCH AND DOCTORAL TRAINING

Public description of the RC’s research and doctoral training (MAX. 2200 characters with spaces): The common denominator of this RC is the research and training aiming at prevention of major public health problems, particularly chronic diseases. Much of the work both in research and training have international dimensions. The PI and other members of the RC has participated as faculty members in a large number of research training programmes both within the University but also outside, and in many international courses.

Significance of the RC’s research and doctoral training for the University of Helsinki (MAX. 2200 characters with spaces): RC provides doctoral post-doctoral training for research workers in epidemiology and pharmcoepidemiology.

Keywords: epidemiology, prevention, nutrition, physical activity, smoking, obesity, lifestyle, genetics, genetic epidemiology, gene-lifestyle interaction, controlled clinical trials, community-based interventions, diabetes, cardiovascular disease, biostatistics, pharmacoepidemiology, psychiatric epidemiology

6 QUALITY OF RC’S RESEARCH AND DOCTORAL TRAINING

Justified estimate of the quality of the RC’s research and doctoral training at national and international level during 2005-2010 (MAX. 2200 characters with spaces): Several published scientific papers indicate high quality of research and doctoral training.

Comments on how the RC’s scientific productivity and doctoral training should be evaluated (MAX. 2200 characters with spaces): Published doctoral thesis.
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PART 1

INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

BACKGROUND INFORMATION

Name of the RC’s responsible person: Tuomilehto, Jaakko
E-mail of the RC’s responsible person: jaakko.tuomilehto@thl.fi
Name and acronym of the participating RC: Public Health and Epidemiology Research Community, PURE
The RC’s research represents the following key focus area of UH: S. Hyvinvointi ja turvallisuus – Welfare and safety
Comments for selecting/not selecting the key focus area: B. The key focus of the PURE RC is on epidemiology and prevention, chronic non-communicable diseases in particular. Our RC however has also been involved in clinical research: randomised controlled trials, disease prediction, disease management, disease outcome and genetics.

1 FOCUS AND QUALITY OF RC’S RESEARCH (MAX. 8800 CHARACTERS WITH SPACES)

- Description of the RC’s research focus, the quality of the RC’s research (incl. key research questions and results) and the scientific significance of the RC’s research for the research field(s).

  The RC’s Research focus

  The key focus of the PURE RC is on epidemiology and prevention. The primary interest has been on diabetes (both type 1 and type 2), hypertension, stroke, coronary heart disease, dementia and Alzheimer’s disease, Parkinson’s disease, rheumatoid disorders and cancer.

  The exposure parameters in our research include a wide range of factors, genetic and non-genetic, modifiable and non-modifiable, socio-demographic, behavioural, dietary, anthropometric, physical activity, biomarkers, etc.

  We have carried out 1) observational studies and descriptive studies to generate hypotheses and describing disease distributions and trends; 2) analytic studies testing specific hypotheses, research to reveal new knowledge about the aetiology of various diseases, studies on interactions between various risk factors and exposures; 3) intervention studies using both non-pharmacologic and pharmacologic approaches. In addition, we have been involved in numerous meta-analyses on various topics.

  Quality of the RC’s research

  Here we list selected research questions that will demonstrate the quality of the RC’s research. These are not in priority order.

  1. Can we prevent type 2 diabetes by lifestyle intervention? We have shown its efficacy and feasibility.
  2. How to screen for type 2 diabetes and its risk? We have developed a simple and convenient risk score based on prospective data and validated it also in other populations.
PART 1

INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

3. How to diagnose and classify type 2 diabetes and intermediate hyperglycaemia?: our results emphasize the importance of post-challenge plasma glucose level after an oral glucose load, measurement of fasting glucose may be less important.

4. What is the role of susceptibility genes in the development of type 2 diabetes: together with other researchers we have now identified >30 susceptibility genes. We have also shown that some of them may indicate whether lifestyle intervention works in reducing the risk.

5. What are the global variation and secular trends in the incidence of childhood type 1 diabetes?: we have shown that type 1 diabetes incidence varies dramatically between populations, there is >350-fold variation with Finland having the highest incidence; the incidence however is increasing everywhere.

6. How important are susceptibility genes for type 1 diabetes for the development of the disease?: we have shown in population-based cohorts that in identical twins the concordance is well under 50%. Similarly, in HLA-identical siblings the concordance is about 35%. Modelling the twin data shows that genetic effects explain about 80% of the disease risk. HLA genes explain most of this susceptibility, but also other genes have been detected to be associated with type 1 diabetes.

7. What are susceptibility genes for diabetic nephropathy?: we carried out the first whole-genome linkage analysis in type 1 diabetic patients and identified a region in Chr. 3

8. What are the risk factors for dementia and Alzheimer’s disease?: we have identified that mid-life vascular risk factors and lifestyle risk factors on the development of dementia and Alzheimer’s disease in late-life has been instrumental in establishing the new paradigm that the risk factors for dementia are virtually the same as those for cardiovascular disease. There is an effect-modification by the ApoE ε4 genotype.

9. Is treatment of hypertension beneficial in the very elderly?: active antihypertensive therapy in hypertensive people aged 80 years or above reduces the risk of stroke and cardiac events and dementia.

10. Has management of hypertension improved in Finland?: we have shown that more hypertensive patients are being treated and also more effectively during the recent years.

11. Can sleep apnoea be prevented by weight loss?: we carried out a randomised trial and showed a dramatic improvement in sleep apnoea associated with weight loss.

The scientific significance of the RC’s research

The research of PURE RC has been scientifically highly significant. Several lines of our research have produced novel findings and contributed to the current evidence-based diagnostic or management guidelines. The main achievements are listed below:

- Our pioneering work on lifestyle prevention of type 2 diabetes has had a huge impact globally.
- Finland has been the first country in the world implementing a national type 2 diabetes prevention programme – our RC’s contribution to its planning and evaluation has been very significant. We have also coordinated a European-wide project (DE-PLAN, "Diabetes in Europe - Prevention using Lifestyle, Physical Activity and Nutritional intervention") to initiate diabetes prevention in 17 countries.
- Our data and results have significantly contributed to international guidelines on the classification and diagnostic criteria of diabetes and hyperglycaemia.
- We have developed the Finnish Diabetes Risk Score that is widely used in Finland, other European countries and several non-European countries to screen for the risk of type 2 diabetes.
- We have mapped the childhood type 1 diabetes incidence worldwide and showed that the incidence is increasing in all countries and that Finland has the highest incidence in the world. Our twin and family studies have demonstrated that the concordance for type 1 diabetes in co-twins.
PART 1

INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

- Hypertension in the Very Elderly Trial where we participated showed marked benefits of active antihypertensive therapy in hypertensive people aged 80 years or above. Several other studies in hypertension in which we have been involved have also had high impact.
- Our research on mid-life vascular risk factors and lifestyle risk factors on the development of dementia and Alzheimer’s disease in late-life has been instrumental in establishing the new paradigm that the risk factors for dementia are virtually the same as those for cardiovascular disease.
- Our RC has actively taken part in collaborative efforts to identify susceptibility genes for diabetes and several quantitative traits.
- Our large prospective studies with multiple risk factors have provided large amount of new data on risk factors for various chronic diseases, particularly joint and independent effects of different factors.
- Finland is one of the few countries in the world where we have established epidemiological studies in order to assess secular trends in chronic diseases and their risk factors. Our RC has been actively involved in these studies.

• Ways to strengthen the focus and improve the quality of the RC’s research.

The main issue is related to the resources available to support this RC’s work. Until present, almost the entire manpower and other resources have been covered by funds obtained through competitive grants. This has taken much time from the actual research among senior staff members. University has provided part of space and basic equipments. We have accumulated excellent data sets over the years and many of the participants to our studies are still followed up for various outcomes. Thus, many data sets will improve with a longer duration.

2 PRACTISES AND QUALITY OF DOCTORAL TRAINING (MAX. 8800 CHARACTERS WITH SPACES)

• How is doctoral training organised in the RC? Description of the RC’s principles for recruitment and selection of doctoral candidates, supervision of doctoral candidates, collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes, good practises and quality assurance in doctoral training, and assuring good career perspectives for the doctoral candidates/fresh doctorates.

Recruitment and selection of doctoral candidates.

Doctoral candidates in the RC have been entirely people who have been working in some of the projects in the RC. They have joined the RC either as doctoral fellows or researchers without any clear plan at the time when joining whether they want to a doctoral thesis but later on decided to do so. Some of the doctoral candidates actually started their doctoral training after they had prepared a Master thesis in the RC.

Supervision of doctoral candidates

Supervision has involved meetings and ad hoc discussions between supervisor and the candidate, reviewing the analysis of data and manuscripts drafted. Methodological training recommended to be sufficient for academic work. Reading materials recommended.
INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

Collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes.

The PURE RC has a very strong and active collaboration with several national and international institutions.

Good practices and quality assurance in doctoral training

Follow-up of the progress in terms of data analyses and manuscript writing. Discussions regarding the content.

Assuring good career perspectives for the doctoral candidates/fresh doctorates.

For many fresh doctorates a post-doc position has been offered, depending on funding available (in most cases has been). Also, possibilities for post-doctoral work abroad explored regularly.

- RC’s strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.

The major strengths are 1) excellent research projects and data bases permitting to design innovative research lines; 2) active collaboration with several high-quality institutions in Finland or abroad.

Challenges are: 1) limited resources to recruit doctoral candidates due to the lack of research funds, and in particular, lack of positions for doctoral candidates at the University; 2) very few people are seeking for such candidate positions due to low salary or due to low interest in scientific research in general.

3 SOCIETAL IMPACT OF RESEARCH AND DOCTORAL TRAINING (MAX. 4400 CHARACTERS WITH SPACES)

- Description of how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).

Much of the work carried out by the RC has public health relevance and direct societal application. We have carried out many studies with private sector and contributed to the societal aspects of health through many policies outside health sector.

- Ways to strengthen the societal impact of the RC’s research and doctoral training.

In our field of research it would be relatively simple. Research programmes and doctoral training as part of such programs can be jointly designed with appropriate stakeholders in the society. Obviously, this means that societal stakeholders, both public and private, must also participate actively in research funding in order to foster the societal impact of our RC’s research. It cannot be one-sided issue only.
INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

4 INTERNATIONAL AND NATIONAL (INCL. INTERSECTORAL) RESEARCH COLLABORATION AND RESEARCHER MOBILITY (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the RC’s research collaborations and joint doctoral training activities and how the RC has promoted researcher mobility.

The RC’s research collaborations and joint doctoral training activities.

The PURE RC has very wide research collaboration and it is actively involved in joint research training activities. We lecture in several international post-graduate courses every year. Most of the research is carried out in collaboration with other institutes and much of it is international. There have been more than 30 multinational research projects during the last 5 years, many of them long-term. The collaboration is also clearly seen in our publications. Many of our doctoral candidates come from other countries, some of the return back some of them stay in Finland after their doctoral thesis.

How the RC has promoted researcher mobility.

The RC has promoted participation in international training courses and scientific conferences and provided support for such. We also have had visiting scientists for variable periods.

- RC’s strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.

The primary strength has been the fact that the RC has a very large international research collaboration network. It has been easy and convenient to arrange researcher mobility. Many collaborative projects will continue.

The biggest challenge is funding for visiting scientists, both from and to Finland. While some funds exist, they are limited and highly competitive. Another major problem is the Finnish language that will require special efforts to learn and is not attractive for many people who are planning an international career, although our research environment uses primarily English.

5 OPERATIONAL CONDITIONS (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the operational conditions in the RC’s research environment (e.g. research infrastructure, balance between research and teaching duties).

Teaching duties are not so overwhelming that they would cause any major problem to carry out successful research.

- RC’s strengths and challenges related to operational conditions, and the actions planned for their development.

Not relevant.
PART 1

INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

6 LEADERSHIP AND MANAGEMENT IN THE RESEARCHER COMMUNITY (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the execution and processes of leadership in the RC, how the management-related responsibilities and roles are distributed in the RC and how the leadership- and management-related processes support high quality research, collaboration between principal investigators and other researchers in the RC, the RC’s research focus and strengthening of the RC’s know-how.

The execution and processes of leadership in the RC

Each senior researcher has her/his own responsibilities and uses own leadership processes in this RC. There is no specific execution process in place and it is unclear whether it is needed, since each project is independent.

How the management-related responsibilities and roles are distributed in the RC.

Each senior researcher has her/his own responsibilities and uses own leadership processes in this RC. There is no specific execution process in place and it is unclear whether it is needed, since each project is independent.

How the leadership- and management-related processes support:
- high quality research
- collaboration between principal investigators and other researchers in the RC
- the RC’s research focus
- strengthening of the RC’s know-how

Each senior researcher has her/his own responsibilities and uses own leadership processes in this RC. There is no specific execution process in place and it is unclear whether it is needed, since each project is independent.

- RC’s strengths and challenges related to leadership and management, and the actions planned for developing the processes.

Not relevant.

7 EXTERNAL COMPETITIVE FUNDING OF THE RC

- Listing of the RCs external competitive funding, where:
  - the funding decisions have been made during 1.1.2005-31.12.2010, and
  - the administrator of the funding is/has been the University of Helsinki

- Academy of Finland (AF) - total amount of funding (in euros) AF has decided to allocate to the RC members during 1.1.2005-31.12.2010: 646120

- Finnish Funding Agency for Technology and Innovation (TEKES) - total amount of funding (in euros) TEKES has decided to allocate to the RC members during 1.1.2005-31.12.2010:
PART 1

INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 2 MATERIAL

- **European Union (EU)** - total amount of funding (in euros) EU has decided to allocate to the RC members during 1.1.2005-31.12.2010: 1207523

- **European Research Council (ERC)** - total amount of funding (in euros) ERC has decided to allocate to the RC members during 1.1.2005-31.12.2010:

- **International and national foundations** – names of international and national foundations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the foundations: Juho Vainio Foundation, Finnish Cancer Foundation, Yrjö Jahnsson Foundation
  - total amount of funding (in euros) from the above-mentioned foundations: 194600

- **Other international funding** - names of other international funding organizations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the funding organizations: American Diabetes Association, World Diabetes Federation, European Foundation for Study of Diabetes, NovoNordisk, AstraZeneca
  - total amount of funding (in euros) from the above-mentioned funding organizations: 648718

- **Other national funding** (incl. EVO funding and Ministry of Education and Culture funded doctoral programme positions) - names of other national funding organizations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the funding organizations: EVO funding of the city of Oulu, CIMO, DPHH, The Social Insurance Institution
  - total amount of funding (in euros) from the above-mentioned funding organizations: 122248

**8 RC'S STRATEGIC ACTION PLAN FOR 2011–2013 [MAX. 4400 CHARACTERS WITH SPACES]**

- Description of the RC's future perspectives in respect to research and doctoral training.
  Since the University is not directly supporting our RC, the future is related to the implementation of the current research projects that depend on outside funding, and therefore not fully secured. If research funding is ceased or reduced, there will be lesser possibilities for doctoral training.

**9 SHORT DESCRIPTION OF HOW THE RC MEMBERS HAVE CONTRIBUTED TO THE COMPILATION OF THE STAGE 2 MATERIALS [MAX. 1100 CHARACTERS WITH SPACES]**
### 1 Analysis of publications

- Associated person is one of Jaakko Tuomilehto, Jani Haukka, Qing Ciao, Marja Heinonen-Guzejev

<table>
<thead>
<tr>
<th>Publication type</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
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<tr>
<td>A1 Refereed journal article</td>
<td>88</td>
<td>72</td>
<td>94</td>
<td>101</td>
<td>97</td>
<td>546</td>
<td></td>
</tr>
<tr>
<td>A2 Review in scientific journal</td>
<td>2</td>
<td></td>
<td></td>
<td>2</td>
<td>4</td>
<td></td>
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</tr>
<tr>
<td>A3 Contribution to book/other compilations (refereed)</td>
<td>5</td>
<td>2</td>
<td>17</td>
<td>3</td>
<td>3</td>
<td>30</td>
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</tr>
<tr>
<td>A4 Article in conference publication (refereed)</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>B1 Unrefereed journal article</td>
<td>6</td>
<td>11</td>
<td>3</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>44</td>
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<tr>
<td>B2 Contribution to book/other compilations (non-refereed)</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>B3 Unrefereed article in conference proceedings</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>C1 Published scientific monograph</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 Edited book, compilation, conference proceeding or special issue of journal</td>
<td>5</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>6</td>
<td></td>
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<tr>
<td>D2 Article in professional hand or guide book or in a professional data system, or test book material</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>D4 Published development or research report</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>E1 Popular article, newspaper article</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>E2 Popular monograph</td>
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<td></td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
2 Listing of publications

A1 Refereed journal article

2005


Lamm, N, Karvonen, M, Tuomilehto, J 2005, 'Do microbes have a causal role in type 1 diabetes?', Medical Science Monitor, vol 11, no. 3, pp. 63-69.


Malmberg, P, Turpeinen, H, Rytkö, P, Sarna, S, Haahrta, T 2005, ‘Determined of increased exhaled nitric oxide in patients with suspected asthma and impaired glucose tolerance all equally strongly related to age?’, Allergy: European Journal of Allergy and Clinical Immunology, vol 60, no. 9, pp. 1043-1047.


PURE/Tuomilehto


Tuomilehto, J 2005, 'Primary prevention of type 2 diabetes: Lifestyle intervention works and saves money, but what should be done with smokers?', *Annals of Internal Medicine*, vol 142, no. 5, pp. 381-383.


2006


Tuomilehto, J, Gao, W, Qiao, Q 2006, 'Assessing the preprandial glucose target: 100 mg/dL versus 110 mg/dL', *Endocrine Practice*, vol 12, no. Suppl. 1, pp. 67-70.


Virtanen, P, Kivimäki, M, Vahtera, J, Koskenvuo, M 2006, 'Employment status and differences in the one-year coverage of physician visits: different needs or unequal access to services?', *BMC Health Services Research*, vol 6, no. 123.


2009


PURE/Tuomilehto


Ning, F, Tuomilehto, J, Pyorala, K, Onat, A, Söderberg, S, Qiao, Q, DECODE Study Grp 2010, 'Cardiovascular Disease Mortality in Europeans in Relation to Fasting and 2-h Plasma Glucose Levels Within a Normoglycemic Range', *Diabetes Care*, vol 33, pp. 2211-2216.


**A2 Review in scientific journal**

2005


2010


Qiao, O, Nyamdorj, R 2010, Is the association of type II diabetes with waist circumference or waist-to-hip ratio stronger than that with body mass index?, European Journal of Clinical Nutrition, vol 64, no. 1, pp. 30-34.

A3 Contribution to book/other compilations (refereed)

2005


2006


2007


2009


2010


A4 Article in conference publication (refereed)
2005


2006


2008

B1 Unrefereed journal article
2005


2009


2010


PURE/Tuomilehto

Tuomilehto, J, Schwarz, PE 2010, 'Primary Prevention of Type 2 Diabetes is Advancing towards the Mature Stage in Europe', Hormone and Metabolic Research, vol 42, no. suppl. 1, pp. S1-S2.


B2 Contribution to book/other compilations (non-refereed)

2007

B3 Unrefered article in conference proceedings

2005

C1 Published scientific monograph

2006

2009

2010

C2 Edited book, compilation, conference proceeding or special issue of journal

2007
INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

PURE/Tuomilehto

2009

D2 Article in professional hand or guide book or in a professional data system, or text book material

2006

D4 Published development or research report

2010

E1 Popular article, newspaper article

2005

2008

E2 Popular monograph

2010
Vuorinen, HS 2010, Taudit, parantajat ja paranettavat: Lääketieteellinen historia, Vastapaino, Tampere.
1 Analysis of activities 2005-2010

- Associated person is one of Jaakko Tuomilehto, Jani Haukka, Qing Qiao, Meriju Heinonen-Guzejev, Seppo Sarna, Jaana Lindström, Hilkka Maira Yliharsilä, Markku Koskenniemi, Heikki S Vuorinen, Saeed Bidel.

<table>
<thead>
<tr>
<th>Activity type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervisor or co-supervisor of doctoral thesis</td>
<td>62</td>
</tr>
<tr>
<td>Prizes and awards</td>
<td>19</td>
</tr>
<tr>
<td>Editor of research journal</td>
<td>144</td>
</tr>
<tr>
<td>Peer review of manuscripts</td>
<td>15</td>
</tr>
<tr>
<td>Membership or other role in review committee</td>
<td>1</td>
</tr>
<tr>
<td>Membership or other role in national/international committees, council, board</td>
<td>161</td>
</tr>
<tr>
<td>Membership or other role in public Finnish or international organizations</td>
<td>3</td>
</tr>
<tr>
<td>Membership or other role of body in private company/organization</td>
<td>3</td>
</tr>
<tr>
<td>Participation in interview for written media</td>
<td>3</td>
</tr>
<tr>
<td>Participation in radio programme</td>
<td>8</td>
</tr>
<tr>
<td>Participation in TV programme</td>
<td>3</td>
</tr>
</tbody>
</table>
2 Listing of activities 2005-2010

Supervisor or co-supervisor of doctoral thesis

Jaakko Tuomilehto,
Supervisor, Doctoral theses: Hanna Säätä, Jaakko Tuomilehto, 1998 → 2006, Finland
Supervisor of doctoral thesis, Jaakko Tuomilehto, 01.01.2000 → 19.08.2005, Finland
Supervisor of doctoral thesis, Jaakko Tuomilehto, 01.01.2000 → 21.02.2006, Finland
Supervision of doctoral thesis, Jaakko Tuomilehto, 01.01.2000 → 21.02.2006, Finland
Supervisor, Doctoral theses: Hilkka Ylihärsilä, Jaakko Tuomilehto, 2000 → 2008, Finland
Supervisor, Doctoral theses: Janne Pilttäsmi, Jaakko Tuomilehto, 2000 → 2008, Finland
Supervisor, Doctoral theses: Jianjun Wang, Jaakko Tuomilehto, 2000 → 2005, Finland
Supervisor, Doctoral theses: Noel Barengo, Jaakko Tuomilehto, 2000 → 2006, Finland
Supervisor, Doctoral theses: Valma Harjutsalo, Jaakko Tuomilehto, 2000 → 2007, Finland
Supervisor, Doctoral theses: Jaana Lindström, Jaakko Tuomilehto, 2001 → 2006, Finland
Supervisor, Doctoral theses: Juho Akkanen, Jaakko Tuomilehto, 2001 → 2007, Finland
Supervisor, Doctoral theses: Nan Hairong, Jaakko Tuomilehto, 2001 → 2008, Finland
Supervisor, Doctoral theses: Leena Sjöberg-Tuominen, Jaakko Tuomilehto, 2002 → ..., Finland
Supervisor, Doctoral theses: Siamak Bidel, Jaakko Tuomilehto, 2003 → 2008, Finland
Supervisor, Doctoral theses: Juha Paräsaari, Jaakko Tuomilehto, 2004 → ..., Finland
Supervisor, Doctoral theses: Majia Miettinen, Jaakko Tuomilehto, 2004 → ..., Finland
Supervisor, Doctoral theses: Marjukka Hyvärinen, Jaakko Tuomilehto, 2004 → 2008, Finland
Supervisor, Doctoral theses: Päivi Kleemola, Jaakko Tuomilehto, 2004 → 2009, Finland
Supervisor, Doctoral theses: Saara Väänänen, Jaakko Tuomilehto, 2004 → ..., Finland
Supervisor, Doctoral theses: Jari Lappalainen, Jaakko Tuomilehto, 2005 → ..., Finland
Supervisor, Doctoral theses: Bin Tang, Jaakko Tuomilehto, 2006 → ..., Finland
Supervisor, Doctoral theses: Feng Ning, Jaakko Tuomilehto, 2006 → ..., Finland
Supervisor, Doctoral theses: Lei Zhang, Jaakko Tuomilehto, 2006 → 2010, Finland
Supervisor, Doctoral theses: Weiguo Gao, Jaakko Tuomilehto, 2006 → 2010, Finland
Seppo Sarna,
Supervisor, doctoral theses: Katja Borodulín, Seppo Sarna, 1998 → 2006, Finland
Supervisor, doctoral theses: Heili Bäckman, Seppo Sarna, 2000 → 2006, Finland
Markku Koskenvuo,
Supervisor, doctoral theses: Marja Heinonen-Guzajev, Markku Koskenvuo, 2001 → 2008, Finland
Supervisor, doctoral theses: Anna Heikkilä, Markku Koskenvuo, 2004 → 2010, Finland
Supervisor, doctoral theses: Arja Pajukari, Markku Koskenvuo, 2004 → 2010, Finland
Supervisor, doctoral theses: Tapio Paljärvi, Markku Koskenvuo, 2005 → 2011, Finland

Jari Haukka,
Co-supervisor of thesis/Kiesöppä, Jari Haukka, 2005, Finland
Co-supervisor of thesis/Tuulio-Henriksson, Jari Haukka, 2005, Finland
Co-supervisor of thesis/Arajärvi, Jari Haukka, 2006, Finland
Co-supervisor of thesis/Lappalä, Jari Haukka, 2006, Finland
Co-supervisor of thesis/Karoliina Karjalainen, Jari Haukka, 2007 → 2011, Finland
Co-supervisor of thesis/Valtonen, Jari Haukka, 2007, Finland
Co-supervisor of thesis/Holma, Jari Haukka, 2008 → 2010, Finland
Co-supervisor of thesis/Ulyha, Jari Haukka, 2008, Finland
Co-supervisor of thesis/Lahti, Jari Haukka, 2008, Finland
Co-supervisor of thesis/Mikael Holma, Jari Haukka, 2008 → 2010, Finland
Co-supervisor of thesis/Grimald-Toriz, Jari Haukka, 2009, Finland
Co-supervisor of thesis/Tikkinen, Jari Haukka, 2010, Finland

Heikki S Vuorinen,
Supervisor, doctoral theses: Marja Hennon-Guzejev, Heikki S Vuorinen, 2001 → 2008, Finland

Qing Qiao,
Supervisor, Qing Qiao, 2001 → 2005, Finland
Supervisor, Doctoral theses: Regzedmaa Nyamdorj, Qing Qiao, 2004 → 2010, Finland
Supervisor, Doctoral theses: Wei Guo Gao, Qing Qiao, 2004 → 2010, Finland
Supervisor, Doctoral theses: Nan Hairong, Qing Qiao, 2005 → 2008, Finland
Supervisor, Qing Qiao, 2006 → 2009, Finland
Supervisor, Doctoral theses: Lei Zhang, Qing Qiao, 2006 → 2010, Finland
Supervisor, Qing Qiao, 2008 → ..., Finland
Supervisor, Doctoral theses: Bin Tang, Qing Qiao, 2008 → ..., Finland
Supervisor, Doctoral theses: Xin Song, Qing Qiao, 2009 → ..., Finland
Supervisor, Qing Qiao, 2010 → ..., Finland

Jaana Lindström
Supervisor, Doctoral theses: Katja Wikström, Jaana Lindström, 2002 → ..., Finland
Supervisor, Doctoral theses: Jenni Lehtisalo, Jaana Lindström, 2006 → ..., Finland

Prizes and awards
Jaakko Tuomilehto,
Bradford Hill Seminar Series, Jaakko Tuomilehto, 2005, United Kingdom
Dear's Distinguished Seminar Series, Jaakko Tuomilehto, 2005, United States
Fredrick H. Epstein Memorial Lecture, Jaakko Tuomilehto, 2005, United States
Lilly Lecture Award, Jaakko Tuomilehto, 2005, United Kingdom
Anita Carlson Memorial Lecture, Jaakko Tuomilehto, 2006, Italy
50th Anniversary International Symposium of Japan Diabetes Society, Jaakko Tuomilehto, 2007, Japan
Award for the most outstanding PhD thesis in natural sciences in Finland in the year 2006, Jaakko Tuomilehto, 2007, Finland
Award for the most outstanding publication in nutrition sciences from Finland in the year 2006, Jaakko Tuomilehto, 2007, Finland
RC-SPECIFIC TUHAT COMPILATIONS OF OTHER SCIENTIFIC ACTIVITIES 2005-2010

Marjory Robertson Lecture, Jaakko Tuomilehto, 2007, United Kingdom
Epidemiologist of the year, Jaakko Tuomilehto, 2008, Finland
European Journal of Cardiovascular Prevention & Rehabilitation (EJCPR) the most highly cited author award, Jaakko Tuomilehto, 2008, Sweden
Khwarizmi 2009 Award, Jaakko Tuomilehto, 01.01.2009 → 31.12.2011, Iran
Laureate of the Khwarizmi International Award, Jaakko Tuomilehto, 2009, Finland
The top 10 major advances in heart disease and stroke research 2008, Jaakko Tuomilehto, 2009, United States
Trial of the Year 2008, Jaakko Tuomilehto, 2009, United States
Grand Hamdan International Award in Diabetes Research, Jaakko Tuomilehto, 2010, United Arab Emirates
Qing Qiao, Honourable awards, One article was chosen as Editor’s choice of the Issue in Diabetologia, Qing Qiao, 2010
Reviewer for, Turkish (TUBITAK) Science Awards 2010, Qing Qiao, 2010, Turkey
Marja Heinonen-Guzejev, Uudenmaan ympäristönsuojelupiirin myöntämä Hiljainen haavanlehti-palkinto, Marja Heinonen-Guzejev, 08.10.2010, Finland

Editor of research journal
Jaakko Tuomilehto,
Journal of Human Hypertension, Jaakko Tuomilehto, 1985 → 2008
International Diabetes Monitor, Jaakko Tuomilehto, 1989 → ...
Croatian Medical Journal, Jaakko Tuomilehto, 1991 → ...
International Diabetes Monitor, Jaakko Tuomilehto, 01.01.2000 → 31.12.2007, United States
Future Forum Editorial Board, Jaakko Tuomilehto, 2002 → 2010
Diabetes and Vascular Disease Research, Jaakko Tuomilehto, 2003 → ...
European Journal of Cardiovascular Prevention and Rehabilitation, Jaakko Tuomilehto, 2003 → 2005
Vascular Health and Risk Management, Jaakko Tuomilehto, 2004 → ...
Current Hypertension Reviews, Jaakko Tuomilehto, 2005 → ...
Current Hypertension Reviews, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom
Diabetes and Metabolism Reviews and Research, Jaakko Tuomilehto, 2005 → ...
Diabetes and Metabolism Reviews and Research, Jaakko Tuomilehto, 01.06.2005 → 31.12.2005, Italy
Diabetes and Vascular Disease Research, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom
European Journal of Cardiovascular Prevention and Rehabilitation, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom
Evidence-Based Preventive Medicine, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom
Journal of Human Hypertension, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom
McMaster PLUS - McMaster Online Rating of Evidence, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom
Annals of International Medicine, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United States
Croatian Medical Journal, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, Croatia
Current Hypertension Reviews, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
Diabetes, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United States
Diabetes Care, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United States
Diabetes Research and Clinical Practice, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, Netherlands
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Diabetes and Vascular Disease Research, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
Diabetic Medicine, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
Diabetologia, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, Germany
European Heart Journal, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
European Journal of Cardiovascular Prevention and Rehabilitation, Jaakko Tuomilehto, 01.01.2006 → 30.04.2006, United Kingdom
Evidence-Based Preventive Medicine, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
International Journal of Obesity, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
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Journal of Hypertension, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United States
Lancet, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
McMaster PLUS-McMaster Online Rating of Evidence, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, Canada
Stroke, Jaakko Tuomilehto, 01.01.2006 → 30.12.2006, United States
Vascular Health and Risk Assessment, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom
Annals of Internal Medicine, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, United States
Croatian Medical Journal, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, Croatia
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Diabetologia, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, Germany
European Heart Journal, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, United Kingdom
European Journal of Clinical Nutrition, Jaakko Tuomilehto, 2007 → …
European Journal of Epidemiology, Jaakko Tuomilehto, 2007 → …
International Journal of Obesity, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, United Kingdom
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Annals of Internal Medicine, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United States
Current Hypertension Reviews, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United Kingdom
Diabetes, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United States
Diabetes Care, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United States
Diabetes and Metabolism Reviews and Research, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, Italy
Diabetic Medicine, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United Kingdom
Diabetologia, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, Germany
European Heart Journal, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United Kingdom
International Journal of Obesity, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United Kingdom
Journal of Hypertension, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United States
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Lancet, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United Kingdom
Neuroepidemiology, Jaakko Tuomilehto, 2008 → ...
Stroke, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United States
The Open Cardiovascular Medicine Journal, Jaakko Tuomilehto, 2008 → ...
Annals of Internal Medicine, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United States
Croatian Medical Journal, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, Croatia
Current Hypertension Reviews, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
Diabetes, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
Diabetes Care, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United States
Diabetes Research and Clinical Practice, Jaakko Tuomilehto, 2009 → ...
Diabetes and Metabolism Reviews and Research, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, Italy
Diabetic Medicine, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
Diabetologia, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United States
European Heart Journal, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
European Journal of Clinical Investigation, Jaakko Tuomilehto, 2009 → ...
International Journal of Obesity, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
Iranian Journal of Public Health, Jaakko Tuomilehto, 2009 → ...
Journal of Hypertension, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United States
Lancet, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
Stroke, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United States
Diabetes Management, Jaakko Tuomilehto, 2010 → ...
Frontiers in Stroke, Jaakko Tuomilehto, 2010 → ...
Primary Care Diabetes, Jaakko Tuomilehto, 2010 → ...

Seppo Sarna

Annals of Medicine, Seppo Sarna, 01.01.2005 → 31.12.2005, Finland
Critical Care, Seppo Sarna, 01.01.2005 → 31.12.2005, United Kingdom
Duodecim, Seppo Sarna, 01.01.2005 → 31.12.2005, Finland
Stroke, Seppo Sarna, 01.01.2005 → 31.12.2005, United States
Suomen Lääkarilehti, Seppo Sarna, 01.01.2005 → 31.12.2005, Finland
Annals of Medicine, Seppo Sarna, 01.01.2006 → 31.12.2006, Finland
Critical Care, Seppo Sarna, 01.01.2006 → 31.12.2006, United Kingdom
Duodecim, Seppo Sarna, 01.01.2006 → 31.12.2006, Finland
Stroke, Seppo Sarna, 01.01.2006 → 31.12.2006, United States
Suomen Lääkarilehti, Seppo Sarna, 01.01.2006 → 31.12.2006, Finland
Annals of Medicine, Seppo Sarna, 14.09.2007 → 31.12.2011, Finland
Critical Care, Seppo Sarna, 14.09.2007 → 31.12.2008, United Kingdom
Stroke, Seppo Sarna, 14.09.2007 → 31.12.2008, United States
Annals of Medicine, Seppo Sarna, 01.01.2009 → 31.12.2009, Finland
Critical Care, Seppo Sarna, 01.01.2009 → 31.12.2009, United Kingdom
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DUODECIM, Seppo Sarna, 01.01.2009 → 31.12.2009, Finland
Stroke, Seppo Sarna, 01.01.2009 → 31.12.2009, United States
Suomen Lääkarilehti, Seppo Sarna, 01.01.2009 → 31.12.2009, Finland

Markku Koskenvuo,
Stroke, Markku Koskenvuo, 01.01.2005 → 31.12.2005, United States
Suomen Lääkarilehti, Markku Koskenvuo, 16.08.2006 → 31.12.2006, Finland
Alcohol & Alcoholism, Markku Koskenvuo, 28.02.2008 → 31.12.2011, United States

Jari Haukka,
Social Science and Medicine, Jari Haukka, 06.09.2006 → 31.12.2011, United States
Statistics in Medicine, Jari Haukka, 03.08.2006 → 31.12.2010, United States
Archives of General Psychiatry, Jari Haukka, 01.01.2007 → 31.12.2010, United States
Schizophrenia Research, Jari Haukka, 09.08.2007 → 31.12.2011, United States
Archives of Internal Medicine, Jari Haukka, 24.11.2009 → 31.12.2010, United States

Heikki S Vuorinen,
Hippokrates, Suomen Lääketieteen Historian Seuran vuosikirja, Heikki S Vuorinen, 01.01.2006 → 31.12.2006, Finland
Hippokrates, Suomen Lääketieteen Historian Seuran vuosikirja, Heikki S Vuorinen, 01.01.2007 → 31.12.2007, Finland
Hippokrates, Suomen Lääketieteen Historian Seuran Vuosikirja, Heikki S Vuorinen, 01.01.2009 → 31.12.2009, Finland
Hippokrates, Suomen Lääketieteen Historian Seuran Vuosikirja, Heikki S Vuorinen, 01.01.2009 → 31.12.2009, Finland

Qing Qiao,
Diabetes Care, Qing Qiao, 01.01.1997 → ..., United States
Diabetes Research and Clinical Practice, Qing Qiao, 20.02.1997 → ..., Netherlands
Diabetic Medicine, Qing Qiao, 01.01.1997 → ..., United Kingdom
Diabetologia, Qing Qiao, 01.01.1997 → ..., United States
Journal of Hypertension, Qing Qiao, 01.07.1997 → ..., United States
Reviewer, Cardiovascular Diabetology, Qing Qiao, 1997 → ...
Reviewer, European Journal of Cardiovascular Prevention and Rehabilitation, Qing Qiao, 1997 → ...
Reviewer, European Journal of Clinical Nutrition, Qing Qiao, 1997 → ...
Reviewer, Nutrition, Metabolism and Cardiovascular Disease, Qing Qiao, 1997 → ...
Reviewer, Open General and Internal Medicine Reviews, Qing Qiao, 1997 → ...
Reviewer, British Journal of Nutrition, Qing Qiao, 1997 → ..., United Kingdom
Current Diabetes Review, Qing Qiao, 01.01.2004 → ..., Netherlands
Diabetes Care, Qing Qiao, 01.01.2005 → 31.12.2005, United States
Diabetic Medicine, Qing Qiao, 01.02.2005 → 31.12.2005, United Kingdom
Reviewer for abstracts submitted to the 41st, 42nd and 43rd EDEG annual conferences 2006-2008, Qing Qiao, 2006 → 2008
Diabetologia, Qing Qiao, 19.09.2007 → 31.12.2007, Germany

Jaana Lindström
Diabetic Medicine, Jaana Lindström, 01.01.2006 → 31.12.2006, United Kingdom
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Diabetologia, Jaana Lindström, 01.01.2006 → 31.12.2006, United Kingdom

Marja Heinonen-Guzejev

Ympäristöminun työtä (Ympäristöministeriö julkaisu, ilmestyy 3/2007), Marja Heinonen-Guzejev, 01.01.2006 → 31.12.2006, Finland

Peer review of manuscripts

Seppo Sarna

Aging clinical and experimental research, Seppo Sarna, 2010, Italy

Circulation, Seppo Sarna, 2010, United States

Jari Haukka

BioMed Central, Jari Haukka, 01.01.2000 → ...
Schizophrenia Research, Jari Haukka, 01.01.2000 → ..., United States
Statistics in Medicine, Jari Haukka, 01.01.2006 → ...
European Journal of Clinical Pharmacology European Journal of Clinical Pharmacology, Jari Haukka, 01.01.2007 → ...
ACTA ONCOLOGICA, Jari Haukka, 01.01.2009 → ...
Annals of Medicine, Jari Haukka, 01.01.2009, Sweden
Archives of Internal Medicine, Jari Haukka, 01.01.2010 → ..., United States
Gut, Jari Haukka, 01.03.2010 → ..., United Kingdom
Journal of Nervous and Mental Disease, Jari Haukka, 01.01.2010 → ..., United States
Journal of Psychopharmacology, Jari Haukka, 01.01.2010 → ..., United Kingdom
Peer reviewer in Lung Cancer, Jari Haukka, 2010 → ..., Italy
The American Journal of Medicine, Jari Haukka, 2010 → ..., United States
The European Journal of Public Health, Jari Haukka, 01.09.2010 → ..., United Kingdom

Membership or other role in review committee

Qing Giao

Editorial board member, Open General and Internal Medicine Reviews, Qing Giao, 2007 → ...

Membership or other role in national/international committee, council, board

Jaakko Tuomilehto

Finnish Epidemiological Society, Board member, Jaakko Tuomilehto, 2000 → 2008, Finland
Finnish Epidemiological Society, Founding member, Jaakko Tuomilehto, 2000 → 2008, Finland
Advisory Committee for Evaluation and Research, Jaakko Tuomilehto, 2003 → ...
Advisory Committee for Evaluation and Research, Chairman, Jaakko Tuomilehto, 2003 → 2008
International Epidemiological Association, Jaakko Tuomilehto, 2003 → ...
International Society of Diabetes and Vascular Disease, Founding member, Jaakko Tuomilehto, 2003 → ...
European Federation of Neurological Societies, Chair, Jaakko Tuomilehto, 2004 → 2007
European Federation of Neurological Societies, Science Panel on Neuroepidemiology, Jaakko Tuomilehto, 2004 → ...
European Society of Cardiology, Science Council Member, Jaakko Tuomilehto, 2004 → 2006
Finnish Epidemiological Society, President, Jaakko Tuomilehto, 2004 → 2006, Finland
1st International Congress on Prediabetes and the Metabolic Syndrome, Jaakko Tuomilehto, 2005 → ..., Germany
4th World Congress on Prevention of Diabetes and Its Complications, Jaakko Tuomilehto, 2005 → ..., India
6th International Conference on Preventive Cardiology, Jaakko Tuomilehto, 2005 → ..., Brazil
American Diabetes Association, Jaakko Tuomilehto, 2005 → …

European Association of the Study of Diabetes, Jaakko Tuomilehto, 01.01.2005 → …

European Federation of Neurological Societies/Neuroepidemiology Science Panel, Jaakko Tuomilehto, 01.09.2005 → 31.12.2005, Austria

European Society for Cardiovascular Prevention, Board member, Jaakko Tuomilehto, 2005 → …

European Society of Cardiology/European Association of Cardiovascular Prevention and Rehabilitation, Jaakko Tuomilehto, 01.09.2005 → 31.08.2006, France

European Society of Cardiology/European Association of Cardiovascular Prevention and Rehabilitation, Jaakko Tuomilehto, 01.09.2005 → 31.12.2005, France

European Society of Cardiology/Science Council, Jaakko Tuomilehto, 01.09.2005 → 31.12.2005, France

European Society of Cardiology/Working Group of Epidemiology and Prevention, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, France

Finnish Hypertension Society, Jaakko Tuomilehto, 01.01.2005 → …, Finland

Finnish Hypertension Society, Founding member, Jaakko Tuomilehto, 01.01.2005 → …, Finland

Finnish Medical Association, Jaakko Tuomilehto, 01.01.2005 → …, Finland

Finnish Society for Social Medicine, Jaakko Tuomilehto, 01.01.2005 → …, Finland

Finnish Society of Doctors, Duodecim, Jaakko Tuomilehto, 01.01.2005 → …, Finland

Future Forum Editorial Board, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom

Implementation Programme for Primary Prevention of Type 2 Diabetes, International Advisory Board Member for National Programmes, Jaakko Tuomilehto, 2005 → …

International Advisory Board for the National Diabetes and Cardiovascular Programme, International Advisory Board Member for National Programmes, Jaakko Tuomilehto, 2005 → …

International Diabetes Federation, Jaakko Tuomilehto, 2005 → …

International Society of Diabetes and Vascular Disease, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, United Kingdom

Prandial Glucose Regulation Group, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, Canada

Suomen Epidemiologian Seura, Jaakko Tuomilehto, 01.04.2005 → 31.01.2006, Finland

Suomen Verenpaineyhdistys, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, Finland

WHO Study Group meeting: Integrated approach to primary prevention of heart attacks and strokes, Jaakko Tuomilehto, 2005 → …, Switzerland

WHODR Consultation: Definition and diagnosis of diabetes mellitus and intermediate hyperglycaemia, Jaakko Tuomilehto, 2005 → …, Switzerland

10th International Diabetes Epidemiology Group Symposium, Jaakko Tuomilehto, 2006 → …, South Africa

1st International Conference on Hypertension, Lipids and Stroke Prevention, Jaakko Tuomilehto, 2006 → …, France

Diabetes and Cardiovascular Disease Study Group, Board member, Jaakko Tuomilehto, 2006 → 2010

Diabetes and Cardiovascular Disease Study Group, founding member, Jaakko Tuomilehto, 2006 → 2010

European Federation of Neurological Societies/Neuroepidemiology Science Panel, Jaakko Tuomilehto, 01.09.2006 → 31.12.2006, Austria

European Society of Cardiology/Science Council, Jaakko Tuomilehto, 01.09.2006 → 31.12.2006, France

European Society of Cardiology/Working Group of Epidemiology and Prevention, Jaakko Tuomilehto, 01.09.2006 → 31.12.2006, France

European Stroke Master Course, Jaakko Tuomilehto, 01.09.2006 → …, Austria

Future Forum Editorial Board, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom

International Society of Diabetes and Vascular Disease, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, United Kingdom

Prandial Glucose Regulation Group, Jaakko Tuomilehto, 01.01.2006, Canada

Suomen Verenpaineyhdistys, Jaakko Tuomilehto, 01.01.2006 → 31.12.2006, Finland

1st Expert Meeting of the European Society of Cardiovascular Prevention (ESOCAP) on Genetic Predisposition for Coronary Heart Disease - Chances and Risks of Genetic Testing, Jaakko Tuomilehto, 2007 → …
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1st Qingdao Forum on Diabetes Prevention, Jaakko Tuomilehto, 2007 → …
1st meeting of the EASD study group on diabetes and CVD, Jaakko Tuomilehto, 2007 → …, United Kingdom
2nd International Congress on Prediabetes and the Metabolic Syndrome, Jaakko Tuomilehto, 2007 → …, Spain
Diabetes Australia-New South Wales "Diabetes and diabetes update day", Jaakko Tuomilehto, 2007 → …, Australia
ESC Committee for Practice Guidelines: Guidelines Implementation Meeting on Diabetes, Prediabetes and Cardiovascular Disease, Jaakko Tuomilehto, 2007 → …, France
European Federation of Neurological Societies, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, Austria
European Society for Cardiovascular Prevention, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, Italy
European Society of Cardiology/Science Council, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, France
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International Society of Diabetes and Vascular Disease, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, United Kingdom
Ministry of Health and Quality of Life of Mauritius, International Advisory Board Member for National Programmes, Jaakko Tuomilehto, 2007 → …
Prandial Glucose Regulation Group, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, Canada
Prospective in Prevenzione Cardiovasciale, Jaakko Tuomilehto, 20.09.2007 → 28.09.2007, Italy
Suomen Epidemiologian Seura, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, Finland
Suomen Verenpainehdistys, Jaakko Tuomilehto, 01.01.2007 → 31.12.2007, Finland
What do the ESCEASD guidelines tell us?, Jaakko Tuomilehto, 2007 → …, Belgium
2nd International Conference on Hypertension, Lipids and Stroke Prevention, Jaakko Tuomilehto, 2008 → …, Czech Republic
2nd Meeting of the EASD Study Group on Diabetes and CVD, Jaakko Tuomilehto, 2008 → …, Italy
2nd World Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension (CODHy), Jaakko Tuomilehto, 2008 → …, Spain
3rd Meeting of European Society for Cardiovascular Prevention, Jaakko Tuomilehto, 01.01.2008 → 05.01.2008, Italy
5th Asian-Pacific diabetes epidemiology course, Jaakko Tuomilehto, 2008 → …, Japan
5th World Congress on Prevention of Diabetes and its Complications, Jaakko Tuomilehto, 01.06.2008 → 05.06.2008, Finland
AACE Consensus Conference on the Prevention of Type 2 Diabetes. Washington D.C., Jaakko Tuomilehto, 2008 → …, United States
Controversies to Consensus in Diabetes, Obesity and Hypertension, CODHy, Jaakko Tuomilehto, 01.01.2008 → 31.10.2008, Spain
Diabetes and Cardiovascular Disease EASD Study Group, D and CDV, Jaakko Tuomilehto, 21.11.2008 → 23.11.2008, Italy
European Federation of Neurological Societies, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, Austria
European Society for Cardiovascular Prevention, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, Italy
European Society of Cardiology, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, France
European Society of Cardiology, Joint Prevention Committee Member, Jaakko Tuomilehto, 2008 → …
European Society of Cardiology, Science Council, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, France
Future Forum Editorial Board, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United Kingdom
IDF, WPR Asi-Pacific Diabetes Epidemiology and Education Training Course 2008, Jaakko Tuomilehto, 01.01.2008 → 30.08.2008, Japan
International Society of Diabetes and Vascular Disease, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, United Kingdom
Meeting of the Image Projet, Jaakko Tuomilehto, 05.11.2008 → 08.11.2008, Spain
Prevencion de la diabetes y de la enfermedad cardiovascular en Europa, Jaakko Tuomilehto, 2008 → …, Spain
Qatar Healthy Aging Centre, Jaakko Tuomilehto, 12.10.2008 → 17.10.2008, Qatar
Suomen Epidemiologian Seura, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, Finland
Suomen Verenpaineyhdistys, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, Finland
The 44th Annual Meeting of the European Association for the Study of Diabetes, Jaakko Tuomilehto, 07.09.2008 → 11.09.2008, Italy
WHO Consultation on a Prioritized Research Agenda for Prevention and Control of Noncommunicable Diseases, Jaakko Tuomilehto, 2008 → ..., Switzerland
WHO Consultation on the Metabolic Syndrome concept in Epidemiology, Health Promotion and Clinical Wo, Jaakko Tuomilehto, 01.01.2008 → 21.11.2008, Switzerland
WHO/International Diabetes Federation Training Seminar on Epidemiology and Public Health Aspects of Diabetes Mellitus, Faculty member, Jaakko Tuomilehto, 2008 → ..., United Kingdom
Working Group of Epidemiology and Prevention, Jaakko Tuomilehto, 01.01.2008 → 31.12.2008, France
11th Symposium of the International Diabetes Epidemiology Group, Jaakko Tuomilehto, 2009 → ..., Canada
1st International Congress on Clinical Neurology and Epidemiology, Jaakko Tuomilehto, 2009 → ..., Germany
3rd International Congress on “Prediabetes” and the Metabolic Syndrome, Jaakko Tuomilehto, 2009 → ..., France
ADA/AACE Consensus Meeting on Individualizing Therapy in Type 2 Diabetes, Jaakko Tuomilehto, 2009 → ..., United States
Euroforum course on epidemiology and prevention of diabetes mellitus and cardiovascular disease, Jaakko Tuomilehto, 2009 → ..., Spain
European Federation of Neurological Societies, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, Austria
European Society for Cardiovascular Prevention, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, Italy
European Society of Cardiology, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, France
Finnish Hypertension Society, Honorary membership, Jaakko Tuomilehto, 2009 → ...
Future Forum Editorial Board, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
International Advisory Board, Scottish Health Informatics Programme, International Advisory Board Member for National Programmes, Jaakko Tuomilehto, 2009 → ...
International Society of Diabetes and Vascular Disease, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, United Kingdom
Korea’s diabetes epidemiology course, Jaakko Tuomilehto, 2009 → ..., South Korea
National guideline development workshop for diabetes prevention and control, Jaakko Tuomilehto, 2009 → ..., Saudi Arabia
Scientific Advisory Committee Association for the Mediterranean Diet: Nutrition and Lifestyle, Jaakko Tuomilehto, 19.09.2009 → ...
Suomen Epidemiologian Seura, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, Finland
Suomen Verenpaineyhdistys, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, Finland
WHO Expert Reference Group for NCD Surveillance Meeting, Jaakko Tuomilehto, 2009 → ..., Switzerland
WHO/IDF Consultation on diagnostic criteria for diabetes mellitus and related disorders of glucose metabolism, Jaakko Tuomilehto, 2009 → ..., Switzerland
Working Group of Epidemiology and Prevention, Jaakko Tuomilehto, 01.01.2009 → 31.12.2009, Italy
1st Latin American Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension (Latin-CODHy), Jaakko Tuomilehto, 2010 → ..., Argentina
3rd International Conference on Hypertension, Lipids and Stroke Prevention, Jaakko Tuomilehto, 2010 → ..., Germany
3rd International Conference on Hypertension, Lipids and Stroke Prevention, Jaakko Tuomilehto, 2010 → ..., Germany
3rd World Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension (CODHy), Jaakko Tuomilehto, 2010 → ..., Czech Republic
6th World Congress on Prevention of Diabetes and its Complications, Honorary President, Jaakko Tuomilehto, 2010 → ..., Germany
6th World Congress on Prevention of Diabetes and its Complications, Jaakko Tuomilehto, 08.04.2010 → 11.04.2010, Germany
Aspects of Diabetes Mellitus, Faculty member, Jaakko Tuomilehto, 2010 → ..., China
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PURE/Tuomilehto

Simposium Internacional Sobre Investigaciones en Prevencion de Diabetes y Enfermedades Cardiovasculares, Jaakko Tuomilehto, 2010 → ..., Peru

The 1st Latin America Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension, Jaakko Tuomilehto, 11.03.2010 → 14.03.2010, Argentina

The 1st latin America Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension, Jaakko Tuomilehto, 11.03.2010 → 13.03.2010, Argentina

The 3rd World Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension, Jaakko Tuomilehto, 11.03.2010 → 16.05.2010, Czech Republic

The 3rd World Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension, Jaakko Tuomilehto, 11.03.2010 → 16.05.2010

Markku Koskenvuo

Sydäntutkimussäätiö, Markku Koskenvuo, 01.01.2005 → 31.12.2005, Finland
Yrjö Jahnssonin säätiö, Markku Koskenvuo, 01.01.2005 → 31.12.2005, Finland
CIMO/Kansainvälisen tutkijavaihto, Markku Koskenvuo, 01.01.2006 → 31.12.2006, Finland
Doctoral Program of Public Health, Markku Koskenvuo, 01.01.2006 → 31.12.2006, Finland
ETENE/Tutkimuseettinen valiokunta, Markku Koskenvuo, 01.06.2006 → 31.12.2006, Finland
Sydäntutkimussäätiö, Markku Koskenvuo, 01.01.2006 → 31.12.2006, Finland
Yrjö Jahnssonin säätiö, Markku Koskenvuo, 01.01.2006 → 31.12.2006, Finland
CIMO/Kansainvälisen tutkijavaihto, Markku Koskenvuo, 01.01.2007 → 31.12.2007, Finland
Doctoral Program of Public Health, Markku Koskenvuo, 01.01.2007 → 31.12.2007, Finland
ETENE/Tutkimuseettinen valiokunta, Markku Koskenvuo, 01.01.2007 → 31.12.2007, Finland
Sydäntutkimussäätiö, Markku Koskenvuo, 01.01.2007 → 31.12.2007, Finland
Yrjö Jahnssonin säätiö, Markku Koskenvuo, 01.01.2007 → 31.12.2007, Finland
CIMO/Kansainvälisen tutkijavaihto, Markku Koskenvuo, 01.01.2008 → 31.12.2008, Finland
Doctoral Program in Public Health, Markku Koskenvuo, 01.01.2008 → 31.12.2008, Finland
ETENE/Tutkimuseettinen valiokunta, Markku Koskenvuo, 01.01.2008 → 31.12.2008, Finland
Sydäntutkimussäätiö, Markku Koskenvuo, 01.01.2008 → 31.12.2008, Finland
Yrjö Jahnssonin säätiö, Markku Koskenvuo, 01.01.2008 → 31.12.2008, Finland
Jari Haukka

Society for Social Medicine in Finland, Jari Haukka, 01.01.2005 → 31.12.2005, Finland
Finnish Epidemiological Society. Jari Haukka, 30.03.2007 → 08.04.2008, Finland
Subcommittee on Medical Research Ethics (TUKIJA), Jari Haukka, 01.10.2010 → 30.09.2014, Finland

Heikki S Vuorinen

International Society for the History of Medicine (ISHM), Heikki S Vuorinen, 01.01.2005 → 31.12.2005
Suomen Lääketieteellinen Historian Seura, Heikki S Vuorinen, 01.01.2005 → 31.12.2006, Finland
Suomen Lääketieteellinen Historian Seura, Heikki S Vuorinen, 01.01.2007 → 31.12.2007, Finland

Qing Qiao

A member of the International Faculty in the 4th World Congress on Prevention of Diabetes and its Complication, Qing Qiao, 11.02.2005 → 13.02.2005, India
A member of the steering committee of the European Diabetes Epidemiology Group, Qing Qiao, 2005 → 2008
European Diabetes Epidemiology Group, Qing Qiao, 01.01.2005 → ...
Faculty Member of the ESC Congress 2005, Qing Qiao, 03.09.2005 → 07.09.2005, Sweden
INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

RC-SPECIFIC TUHAT COMPILATIONS OF OTHER SCIENTIFIC ACTIVITIES 2005-2010

PURE/Tuomilehto

Faculty member of the International Course on Cardiovascular and Diabetes Epidemiology, Qing Qiao, 04.2006, Finland
Scientific committee member, Qing Qiao, 2006 → 2008
WHO Consultation on the definition of the metabolic syndrome, Qing Qiao, 08.12.2008 → 11.12.2008, Switzerland
WHO Consultation on the definition of the obesity, Qing Qiao, 20.11.2008 → 21.11.2008, Switzerland

Membership or other role in public Finnish or international organization
Jaakko Tuomilehto
STM, Valtakunnalaisen tyypin 2 diabeteksen ehkäisyohjelman D2D-hanke, Jaakko Tuomilehto, 01.01.2005 → 31.12.2005, Finland
Jaana Lindström
Diabeetikon ruokavaliosuositustyöryhmä, Jaana Lindström, 01.01.2006 → 31.12.2006, Finland
Diabetesliiton ravitsemustyöryhmä, Jaana Lindström, 01.01.2006 → 31.12.2006, Finland

Membership or other role of body in private company/organisation
Seppo Sarna
Urheilulääketieteen Säätiö, Seppo Sarna, 01.01.2006 → 31.12.2006, Finland
Urheilulääketieteen Säätiö, Seppo Sarna, 01.01.2007 → 31.12.2007, Finland
Jari Haukka
Nordic Countries Expert Panel meeting, Jari Haukka, 05.01.2010 → 31.03.2010, Denmark

Participation in interview for written media
Heikki S Vuorinen
Jaana Lindström
Lahden seudun diabeetikkojen koulutuspäivä, Jaana Lindström, 01.01.2006, Finland

Participation in radio programme
Jaakko Tuomilehto
YLE Radio Yksi, Jaakko Tuomilehto, 30.05.2008, Finland
Seppo Sarna
Radio-ohjelmat, toim. Jouko Vuolle, Yle-Sport, Seppo Sarna, 01.07.2006, Finland
Heikki S Vuorinen
YLE Radio 1, Heikki S Vuorinen, 17.11.2008, Finland
YLE Radio 1, Heikki S Vuorinen, 24.11.2008, Finland
YLE Radio 1, Heikki S Vuorinen, 01.12.2008, Finland
YLE Radio 1, Heikki S Vuorinen, 15.12.2008, Finland
YLE Radio 1, Heikki S Vuorinen, 19.12.2008, Finland
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RC-SPECIFIC TUHAT COMPILATIONS OF OTHER SCIENTIFIC ACTIVITIES 2005-2010

PURE/Tuomilehto

Participation in TV programme

Jaakko Tuomilehto,
Televisionhaastattelu, Jaakko Tuomilehto, 08.04.2005, Finland

Marja Heinonen-Guzejev,
Haastattelu TV-uutisissa, Marja Heinonen-Guzejev, 08.10.2010

Research Group: Tuomilehto J

Basic statistics
- Number of publications (P): 483
- Number of citations (TCS): 9,550
- Number of citations per publication (MCS): 20.21
- Percentage of uncited publications: 21%
- Field-normalized number of citations per publication (MNCS): 2.96
- Field-normalized average journal impact (MNJS): 1.82
- Field-normalized proportion highly cited publications (top 10%): 2.52
- Internal coverage: .86

Trend analyses

Collaboration

Performance (MNCS) by collaboration type
INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING
AT THE UNIVERSITY OF HELSINKI
by CWTS, Leiden University, the Netherlands

Research profile

[Diagram showing research profile with categories and bars indicating trend]