



**UNIVERSITY
OF TURKU**

TURKU COLLEGIUM FOR SCIENCE AND MEDICINE Annual Report 2020

TCSM – For Future Leaders in Science

**University of Turku
2021**

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► TCSM – Excellence in Science, Medicine and Technology

In 2008, the **University of Turku** founded two research collegia: the **Turku Collegium for Science and Medicine** (TCSM) and the **Turku Institute of Advanced Studies** (TIAS). The goal of both collegia is to advance top research by supporting high potential researchers at the early stages of their independent scientific careers. To be true to this mission, TCSM selects both collegium and postdoctoral researchers in highly competitive international calls. The recruited scientists settle down according to their research fields in the most suitable environments at the University of Turku.

Although the resources of TCSM may be more limited than in some leading universities, the collegium aims to create a scientifically stimulating and supportive platform for future scientific leaders. The collegium and its researchers stand at the forefront of research and innovation. TCSM harbors a multi- and interdisciplinary research community, and believes that interactions over the usual boundaries have high potential to create groundbreaking discoveries.

Sirpa Jalkanen

Professor, Chair of the TCSM Board

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► TCSM – Introduction

The Turku Collegium for Science and Medicine (TCSM) was launched with funding from the Consortium comprising the University of Turku and the Turku School of Economics in 2008. During its years of operation, TCSM has become an integral and permanent part of the University of Turku. In 2020 the Collegium was supported by the Faculty of Science and Engineering and the Faculty of Medicine (from 2021 onwards the Faculties of Science, Medicine, and Technology).

Research at TCSM includes studies in the fields of e.g. astronomy, biology, biochemistry, biomedicine, biotechnology, chemistry, clinical medicine, computer science, dentistry, future technologies, geology, geography, information technology, materials science and engineering, mathematics, mechanical engineering, nursing science, physics, and statistics.

TCSM selects its researchers through an international call. The aim of TCSM is to establish a multidisciplinary, interactive research platform for dynamic researchers in science, medicine and technology.

TCSM hosts both postdoctoral and collegium researchers. The researchers are appointed on fixed-term positions at the University of Turku. The positions are funded for 3 years at the time, with a possibility for a two-year extension for Collegium Researchers. TCSM Collegium Researchers receive a 20.000 € starting grant for three years and an additional 10.000 € for the possible two year extension. The starting grant is intended to cover travel costs or research related costs (excl. research infrastructure).

Since 2008, 36 Collegium Researchers and 21 Postdoctoral Researchers have been recruited. TCSM has recruited Collegium Researchers every other year during its operational years. In 2016, the University of Turku launched a new postdoctoral research program and the first five postdoctoral researchers were recruited to TCSM. In 2020, TCSM consisted of 23 Researchers, 6 Collegium Researchers and 15 Postdoctoral Researchers. Three of the 15 Postdoctoral Researchers were successful in applying for Collegium Researcher positions and one was recruited to the private sector. The Faculty of Science and Engineering hosted 3 Collegium Researchers and 11 Postdoctoral Researchers. The Faculty of Medicine hosted three Collegium Researchers and four Postdoctoral Researchers. During the year 2020, two collegium researchers received tenure positions (or equivalent) and one was promoted for a full professorship in internal medicine.

Starting from 2019, TCSM plans to annually recruit postdoctoral researchers. The goal of this regular selection process is to maintain a group of 10–15 postdoctoral researchers actively working at the University of Turku. TCSM organized a call for applications for TCSM Postdoctoral Researcher positions in 2020. The call for applications was open 9.11.2020-11.01.2021. The next call for applications for TCSM Postdoctoral Researcher Positions is planned for late 2021.

► TCSM Previous Calls and Call for Applications 2020

Postdoctoral Researchers

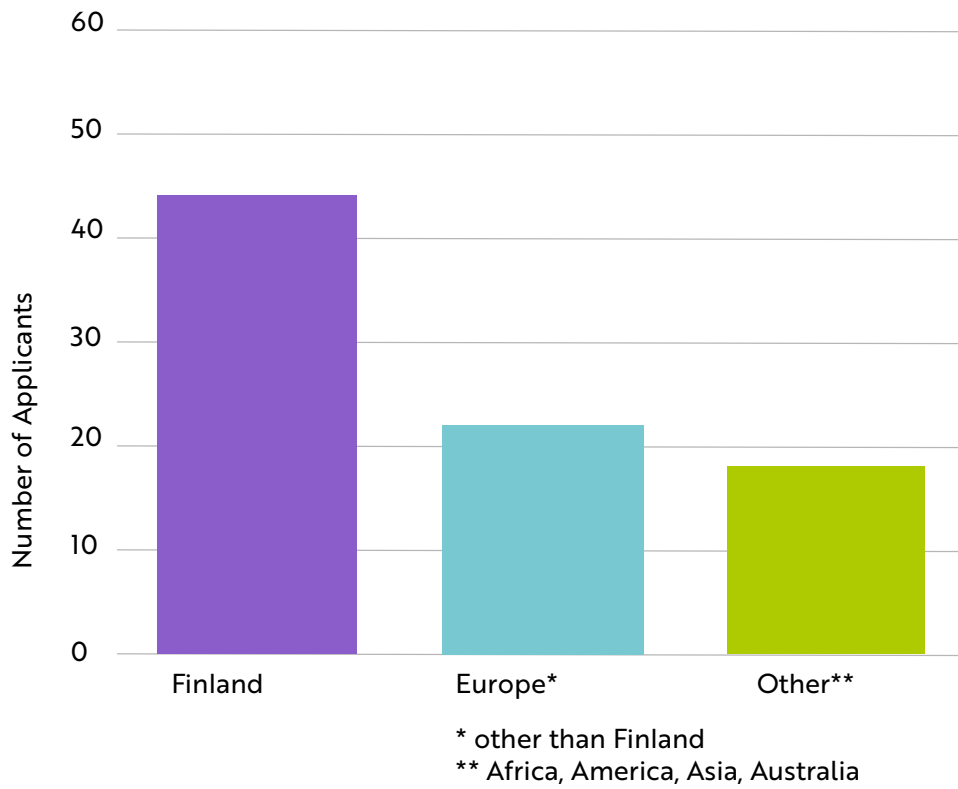
The person to be appointed to the postdoctoral researcher position is required to hold a doctoral degree, which may not have been completed more than five years before the expiry of the application submission deadline. Particular attention is paid to the candidate's international research experience. The successful candidate should have a linkage with research activities at the University of Turku and should, as a rule, be able to join an existing research group or work under the supervision of a senior researcher at the University of Turku.

Previous calls for TCSM Postdoctoral Researcher positions

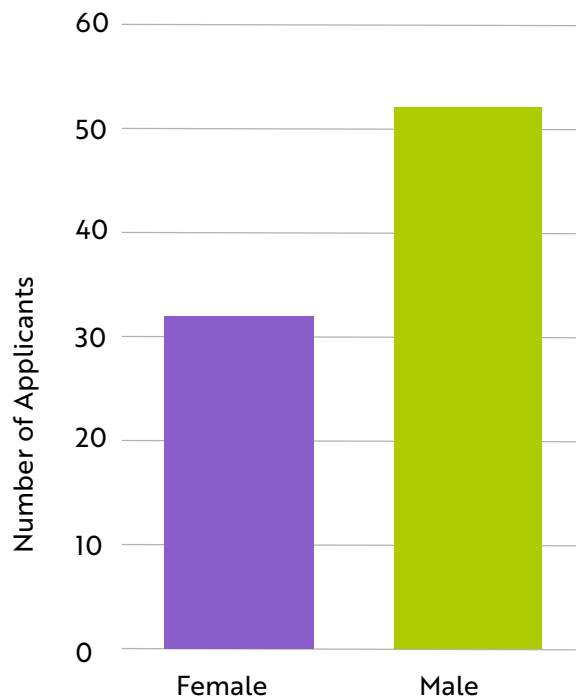
Year	Applications	Positions	Percentage
2016	125	5	4
2017	175	5	2.9
2018	119	5	4.2
2019	111	5	4.5
2020	84	5	5.9

The fifth international call for applications for postdoctoral researcher positions was organized 9 November 2020 – 11 January 2021. The collegium received altogether 84 applications from 17 countries. Of the applicants, 77% reported a nationality other than Finnish. The selection process including interviews will take place in the spring 2021.

Finnish applicants vs. applicants from Europe and other continents



Gender distribution



Collegium Researchers

Collegium Researcher is an ambitious young researcher who wants to start independent research work, has gained a doctoral degree certificate a minimum of three years and a maximum of nine years before the submission deadline for applications, and has international research experience (significant postdoctoral research work abroad is essential).

Previous calls for TCSM Collegium Researcher positions

Year	Applications	Positions	Percentage
2008	87	6	6.8
2009	65	4	6.1
2011	66	7	10.6
2013	85	5	5.9
2015	166	6	3.6
2017	156	4	2.6
2019	81	5	6.2

► TCSM Postdoctoral Researchers 2020

Faculty of Medicine

Pankaj Singh, Institute of Biomedicine

Lihua Sun, Turku PET Centre

Jetro Tuulari, Department of Clinical Medicine

Cao Yu, MediCity Research Laboratory

Faculty of Science and Engineering

Thomas Bullock, Department of Physics and Astronomy

Pedro Dinis, Department of Biochemistry

Aino Kalske, Department of Biology

Tharun Kumar Kotammagari, Department of Chemistry

Nicolino Lo Gullo, Department of Physics and Astronomy

Kesavan Lokesh, Department of Chemistry

Mikel Calle Navarro, Department of Geography and Geology

Jarkko Peltomäki, Department of Mathematics and Statistics

Sophie Reichert, Department of Biology

Matteo Rossi, Department of Physics and Astronomy

Antoine Stier, Department of Biology

► TCSM Collegium Researchers 2020

Faculty of Medicine

Jianwei Li, Medicity Research Laboratory

Miho Nakamura, Institute of Biomedicine

Teemu Niiranen, Department of Clinical Medicine

Faculty of Science and Engineering

Erkki Kankare, Department of Physics and Astronomy

Pere Puigbo, Department of Biology

Suvi Ruuskanen, Department of Biology

► Publications by TCSM Researchers 2020

A1 Journal article – refereed

All quantum resources provide an advantage in exclusion tasks

Physical Review Letters. Uola R, **Bullock T**, Kraft T, Pellonpää J-P, Brunner N

Quantum state discrimination via repeated measurements and the rule of three

Quantum Studies: Mathematics and Foundations. **Bullock T**, Heinosaari T

Impacts of sediment connectivity on Holocene alluvial records across a Mediterranean basin (Guadalentin River, SE-Spain)

CATENA. Rodriguez-Lloveras X, Machado MJ, Sanchez-Moya Y, **Calle M**, Medialdea A, Sopena A, Benito G

Inferring sediment transfers and functional connectivity of rivers from repeat topographic surveys

Earth Surface Processes and Landforms. **Calle M**, Calle J, Alho P, Benito G

Extreme Floods in Small Mediterranean Catchments: Long-Term Response to Climate Variability and Change

Water. Benito G, Sanchez-Moya Y, Medialdea A, Barriendos M, **Calle M**, Rico M, Sopena A, Machado MJ

Introduced plants of *Lupinus polyphyllus* are larger but flower less frequently than conspecifics from the native range: Results of the first year

Ecology and Evolution. Ramula S, **Kalske A**

Population-wide shifts in herbivore resistance strategies over succession

Ecology. **Kalske A**, Kessler A

The rise and fall of an extraordinary Ca-rich transient The discovery of ATLAS19dqr/SN 2019bkc

Astronomy and Astrophysics. Prentice SJ, Maguire K, Flörs A, Taubenberger S, Inserra C, Frohmaier C, Chen TW, Anderson JP, Ashall C, Clark P, Fraser M, Galbany L, Gal-Yam A, Gromadzki M, Gutiérrez CP, James PA, Jonker PG, **Kankare E**, Leloudas G, Magee MR, Mazzali PA, Nicholl M, Pursiainen M, Skillen K, Smartt SJ, Smith KW, Vog C, Young DR

SN 2017ivv: two years of evolution of a transitional Type II supernova

Monthly Notices of the Royal Astronomical Society. Gutierrez CP, Pastorello A, Jerkstrand A, Galbany L, Sullivan M, Anderson JP, Taubenberger S, Kuncarayakti H, González-Gaitán S, Wiseman P, Inserra C, Fraser M, Maguire K, Smartt S,

Müller-Bravo TE, Arcavi I, Benetti S, Bersier D, Bose S, Bostroem KA, Burke J, Chen P, Chen T-W, Della Valle M, Dong Subo, Gal-Yam A, Gromadzki M, Hiramatsu D, Holoién TW-S, Hosseinzadeh G, Howell DA, **Kankare E**, Kochanek CS, McCully C, Nicholl M, Pignata G, Prieto JL, Shappee B, Taggart K, Tomasella L, Valenti S, Young DR

LSQ13ddu: a rapidly evolving stripped-envelope supernova with early circumstellar interaction signatures

Monthly Notices of the Royal Astronomical Society. Clark P, Maguire K, Inserra C, Prentice S, Smartt SJ, Contreras C, Hossenizadeh G, Hsiao EY, **Kankare E**, Kasliwal M, Nugent P, Shahbandeh M, Baltay C, Rabinowitz D, Arcavi I, Ashall C, Burns CR, Callis E, Chen T-W, Diamond T, Fraser M, Howell DA, Karamehmetoglu E, Kotak R, Lyman J, Morrell N, Phillips M, Pignata G, Pursiainen M, Sollerman J, Stritzinger M, Sullivan M, Young D

The low-luminosity Type II SN2016aqf: a well-monitored spectral evolution of the Ni/Fe abundance ratio

Monthly Notices of the Royal Astronomical Society. Muller-Bravo TE, Gutierrez CP, Sullivan M, Jerkstrand A, Anderson JP, Gonzalez-Gaitan S, Sollerman J, Arcavi I, Burke J, Galbany L, Gal-Yam A, Gromadzki M, Hiramatsu D, Hosseinzadeh G, Howell DA, Inserra C, **Kankare E**, Kozyreva A, McCully C, Nicholl M, Smartt S, Valenti S, Young DR, Young DR

The tidal disruption event AT2018hyz-I. Double-peaked emission lines and a flat Balmer decrement

Monthly Notices of the Royal Astronomical Society. Short P, Nicholl M, Lawrence A, Gomez S, Arcavi I, Wevers T, Leloudas G, Schulze S, Anderson J-P, Berger E, Blanchard PK, Burke J, Castro Segura N, Charalampopoulos P, Chornock R, Galbany L, Gromadzki M, Herzog LJ, Hiramatsu D, Horne K, Hosseinzadeh G, Howell DA, Ihanec N, Inserra C, **Kankare E**, Maguire K, McCully C, Muller Bravo TE, Onori F, Sollerman J, Young DR

DES16C3cje: A low-luminosity, long-lived supernova

Monthly Notices of the Royal Astronomical Society. Gutierrez CP, Sullivan M, Martinez L, Bersten MC, Inserra C, Smith M, Anderson JP, Pan YC, Pastorello A, Galbany L, Nugent P, Angus CR, Barbarino C, Carollo D, Chen TW, Davis TM, Della Valle M, Foley RJ, Fraser M, Frohmaier C, Gonzalez-Gaitan S, Gromadzki M, **Kankare E**, Kokotanekova R, Kollmeier J, Lewis GF, Magee MR, Maguire K, Moller A, Morrell N, Nicholl M, Pursiainen M, Sollerman J, Sommer NE, Swann E, Tucker BE, Wiseman P, Aguena M, Allam S, Avila S, Bertin E, Brooks D, Buckley-Geer E, Burke DL, Rosell AC, Kind MC, Carretero J, Costanzi M, da Costa LN, De Vicente J, Desai S, Diehl HT, Doel P, Eifler TF, Flaughner B, Fosalba P, Frieman J, Garcia-Bellido J, Gerdes DW, Gruen D, Gruendl RA, Gschwend J, Gutierrez G, Hinton SR, Hollowood DL, Honscheid K, James DJ, Kuehn K, Kuropatkin N, Lahav O, Lima M, Maia MAG, March M, Menanteau F, Miquel R, Morganson E, Palmese A, Paz-Chinchon F,

Plazas AA, Sako M, Sanchez E, Scarpine V, Schubnell M, Serrano S, Sevilla-Noarbe I, Soares-Santos M, Suchyta E, Swanson MEC, Tarle G, Thomas D, Varga TN, Walker AR, Wilkinson R, Wilkinson R, Walker AR, Varga TN

Observational constraints on the optical and near-infrared emission from the neutron star-black hole binary merger candidate S190814bv

Astronomy and Astrophysics. Ackley K, Amati L, Barbieri C, Bauer FE, Benetti S, Bernardini MG, Bhirombhakdi K, Botticella MT, Branchesi M, Brocato E, Bruun SH, Bulla M, Campana S, Cappellaro E, Castro-Tirado AJ, Chambers KC, Chaty S, Chen T-W, Ciolfi R, Coleiro A, Copperwheat CM, Covino S, Cutter R, D'Ammando F, D'Avanzo P, De Cesare G, D'Elia V, Della Valle M, Denneau L, De Pasquale M, Dhillon VS, Dyer MJ, Elias-Rosa N, Evans PA, Eyles-Ferris RAJ, Fiore A, Fraser M, Fruchter AS, Fynbo JPU, Galbany L, Gall C, Galloway DK, Getman FI, Ghirlanda G, Gillanders JH, Gomboc A, Gompertz BP, González-Fernández C, González-Gaitán S, Grado A, Greco G, Gromadzki M, Groot PJ, Gutiérrez CP, Heikkilä T, Heintz KE, Hjorth J, Hu Y-D, Huber ME, Inserra C, Izzo L, Japelj J, Jerkstrand A, Jin ZP, Jonker PG, **Kankare E**, Kann DA, Kennedy M, Kim S, Klose S, Kool EC, Kotak R, Kuncarayakti H, Lamb GP, Leloudas G, Levan AJ, Longo F, Lowe TB, Lyman JD, Magnier E, Maguire K, Maiorano E, Mandel I, Mapelli M, Mattila S, McBrien OR, Melandri A, Michałowski MJ, Milvang-Jensen B, Moran S, Nicastro L, Nicholl M, Nicuesa Guelbenzu A, Nuttal ., Oates SR, O'Brien PT, Onori F, Palazzi E, Patricelli B, Perego A, Torres MAP, Perley DA, Pian E, Pignata G, Piranomonte S, Poshyachinda S, Possenti A, Pumo ML Quirola-Vásquez J, Ragosta F, Ramsay G, Rau A, Rest A, Reynolds TM, Rosetti SS, Rossi A, Rosswog S, Sabha NB, Sagués Carracedo A, Salafia OS, Salmon L, Salvaterra R, Savaglio S, Sbordone L, Schady P, Schipani P, Schultz ASB, Schweyer T, Smartt SJ, Smith KW, Smith M, Sollerman J, Srivastav S, Stanway ER, Starling RLC, Steeghs D, Stratta G, Stubbs CW, Tanvir NR, Testa V, Thrane E, Tonry JL, Turatto M, Ulaczyk K, van der Horst AJ, Vergani SD, Walton NA, Watson D, Wiersema K, Wiik K, Wyrzykowski Ł, Yang S, Yi S-X, Young DR

SN 2016gsd: an unusually luminous and linear Type II supernova with high velocities

Monthly Notices of the Royal Astronomical Society. Reynolds TM, Fraser M, Mattila S, Ergon M, Lundqvist P, Dessart L, Dong SB, Elias-Rosa N, Galbany L, Gutierrez CP, Kangas T, **Kankare E**, Kotak R, Kuncarayakti H, Pastorello A, Rodriguez O, Smartt SJ, Stritzinger M, Tomasella L, Chen P, Harmanen J, Hozzeinzadeh G, Howell DA, Inserra C, Nicholl M, Nielsen M, Smith K, Somero A, Tronsgaard R, Young DR

AT 2017gbl: a dust obscured TDE candidate in a luminous infrared galaxy

Monthly Notices of the Royal Astronomical Society. Kool EC, Reynolds TM, Mattila S, **Kankare E**, Pérez-Torres MA, Efstathiou A, Ryder S, Romero-Cañizales C, Lu W, Heikkilä T, Anderson GE, Berton M, Bright J, Cannizzaro G, Eappachen D, Fraser M, Gromadzki M, Jonker PG, Kuncarayakti H, Lundqvist P, Maeda K, McDermid RM, Medling AM, Moran S, Reguitti A, Shahbandeh M, Tsygankov S, Wevers VUT

Observations of the low-luminosity Type Ia supernova 2019gsc: a fainter clone of SN 2008ha?

Monthly Notices of the Royal Astronomical Society. Tomasella L, Stritzinger M, Benetti S, Elias-Rosa N, Cappellaro E, **Kankare E**, Lundqvist P, Magee M, Maguire K, Pastorello A, Prentice S, Reguitti A

Study of the energy variation in many-body open quantum systems: Role of interactions in the weak and strong coupling regimes

Physical Review B. Talarico NW, Maniscalco S, **Lo Gullo N**

Emergence of anomalous dynamics from the underlying singular continuous spectrum in interacting many-body systems

Physical Review B. Settino J, Talarico NW, Cosco F, Plastina F, Maniscalco S, **Lo Gullo N**

Single-Quantum-Dot Heat Valve

Physical Review Letters. Dutta B, Majidi D, Talarico NW, **Lo Gullo N**, Courtois H, Winkelmann CB

Cellulose-Based Reduced Nanographene Oxide on Gold Nanoparticle Supports for CO₂ Electrocatalysis

ChemElectroChem. Koyejo AO, **Kesavan L**, Damlin P, Salomäki M, Yao JG, Hakkarainen M, Kvarnström C

Enhanced new bone formation in canine maxilla by a graft of electrically polarized beta-tricalcium phosphate

Journal of Biomedical Materials Research Part B: Applied Biomaterials. Nohara K, Itoh S, Akizuki T, **Nakamura M**, Fukuba S, Matsuura T, Okada M, Izumi Y, Iwata T, Yamashita K

Phenotypes of masked hypertension: Isolated ambulatory, isolated home and dual masked hypertension

Journal of Hypertension. Stergiou GS, Kyriakoulis KG, McManus RJ, Andreadis EA, Jula A, Kollias A, Lindroos A, Ntineri A, Schwartz C, **Niiranen TJ**

National trends in total cholesterol obscure heterogeneous changes in HDL and non-HDL cholesterol and total-to-HDL cholesterol ratio: a pooled analysis of 458 population-based studies in Asian and Western countries

International Journal of Epidemiology. NCD Risk Factor Collaboration (NCD-RisC) incl. **Niiranen TJ**

Clinical practice patterns in revascularization of diabetic patients with coronary heart disease: nationwide register study

Annals of Medicine. Lehto H-R, Pietilä A, **Niiranen TJ**, Lommi J, Salomaa V

Unsupervised hierarchical clustering identifies a metabolically challenged subgroup of hypertensive individuals

Journal of Clinical Hypertension. Vaura FC, Salomaa VV, Kantola IM, Kaaja R, Lahti L, **Niiranen TJ**

Sex Differences in Blood Pressure Trajectories Over the Life Course

JAMA Cardiology. Ji H, Kim A, Ebinger JE, **Niiranen TJ**, Claggett BL, Noel Bairey Merz C, Cheng S

Sepelvaltimotaudin ja aivohalvauksen riskin arviointi FINRISKI 2.0 -laskurilla

Lääkärilehti. Vartiainen E, Laatikainen T, Jousilahti P, Peltonen M, **Niiranen T**, Salomaa V

Comparison of Cardiovascular Risk Factors in European Population Cohorts for Predicting Atrial Fibrillation and Heart Failure, Their Subsequent Onset, and Death

Journal of the American Heart Association. Schrage B, Geelhoed B, **Niiranen TJ**, Gianfagna F, Vishram-Nielsen JKK, Costanzo S, Söderberg S, Ojeda FM, Vartiainen E, Donati MB, Magnussen C, Di Castelnuovo A, Camen S, Kontto J, Koenig W, Blankenberg S, de Gaetano G, Linneberg A, Jørgensen T, Zeller T, Kuulasmaa K, Tunstall-Pedoe H, Hughes M, Iacoviello L, Salomaa V, Schnabel RB

Cardiovascular End Points and Mortality Are Not Closer Associated With Central Than Peripheral Pulsatile Blood Pressure Components

Hypertension. Huang QF, Aparicio LS, Thijs L, Wei FF, Melgarejo JD, Cheng YB, Sheng CS, Yang WY, Gilis-Malinowska N, Boggia J, **Niiranen TJ**, Wojciechowska W, Stolarz-Skrzypek K, Barochiner J, Ackermann D, Tikhonoff V, Ponte B, Pruijm M, Casiglia E, Narkiewicz K, Filipovsky J, Czarnecka D, Kawecka-Jaszcz K, Jula AM, Bochud M, Vanassche T, Verhamme P, Struijker-Boudier HAJ, Wang JG, Zhang ZY, Li Y, Staessen JA

An instrument for measuring blood pressure and assessing cardiovascular health from the fingertip

Biosensors and Bioelectronics. Panula T, Koivisto T, Pänkäälä M, **Niiranen T**, Kantola I, Kaisti M

An Early-Onset Subgroup of Type 2 Diabetes: A Multigenerational, Prospective Analysis in the Framingham Heart Study

Diabetes Care. Echouffo-Tcheugui JB, **Niiranen TJ**, McCabe EL, Henglin M, Jain M, Vasani RS, Larson MG, Cheng S

Haptoglobin Hp1 Variant Does Not Associate with Small Vessel Disease

Brain Sciences. Lempiäinen J, Ijäs P, **Niiranen TJ**, Kaste M, Karhunen PJ, Lindsberg PJ, Erkinjuntti T, Melkas S

Kansanterveyden seuranta, arviointi ja ennakointi : mitä tietoa Suomessa saadaan hoitoilmoitusrekistereistä ja mitä väestötutkimuksista?

Lääkärilehti. Laatikainen T, Koponen P, Reinikainen J, Tolonen H, Jousilahti P, Suvisaari J, Mattila T, **Niiranen T**, Koskinen S

Combined Influence of Waist and Hip Circumference on Risk of Death in a Large Cohort of European and Australian Adults

Journal of the American Heart Association. Cameron AJ, Romaniuk H, Orellana L, Dallongeville J, Dobson AJ, Drygas W, Ferrario M, Ferrieres J, Giampaoli S, Gianfagna F, Iacoviello L, Jousilahti P, Kee F, Moitry M, **Niiranen TJ**, Pajak A, Palmieri L, Palosaari T, Satu M, Tamosiunas A, Thorand B, Toft U, Vanuzzo D, Veikko S, Veronesi G, Wilsgaard T, Kuulasmaa K, Soderberg S

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B2 Book section

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Kohonnut verenpaine – Käypä hoito -suositus

Jula A, Kantola I, Korhonen P, Lehto S, Mervaala E, Metsärinne K, **Niiranen T**, Pörsti I, Strandberg T, Syväne M, Tikkanen I

Diagnostic Value of Home Blood Pressure

Kario K, Imai Y, Kollias A, **Niiranen TJ**, Ohkubo T, McManus RJ, Stergiou GS

O2 Other

Kohonnut verenpaine – Käypä hoito -suositus päivitystiivistelmä

Duodecim. Jula A, Kantola I, Korhonen P, Lehto S, Mervaala E, Metsärinne K, **Niiranen T**, Pörsti I, Strandberg T, Syväne M, Tikkanen I

▶ **The University of Turku Collegia TCSM & TIAS Blog and other TCSM Activities**

The joint TCSM and Turku Institute of Advanced Studies (TIAS) University of Turku Collegia blog has been running since the autumn 2019. All TCSM researchers have the opportunity to contribute to the Turku Collegium Blog. The aim of the blog is to gain visibility for the collegia and its researchers. The topics of the posts are not defined; instead, the blog is a forum for TCSM and TIAS researchers describe their work and communicate about experiences in research (incl. visits and conferences). The blog also welcomes personal opinions about science and careers within science and about working as researchers at UTU. The blog may also be used as a tool for conveying thoughts, ideas, and feelings about topics related to research in general and to working life in Turku, Finland, etc. The blog is found at <https://blogit.utu.fi/collegia/>

TCSM arranges annual meetings and events that aim to enhance researcher collaboration, e.g. Lunch Meetings on current topics. The researchers also communicate actively about relevant publications, research innovations, awards and merits, e.g. in lecture series, blogs and on [twitter](#). TCSM researchers are also encouraged to network with the Board members at the symposia organized twice each year. All researches employed by the University of Turku have the opportunity to participate in Staff Training and TCSM researchers are also invited to participate in career discussions with the Board members.

► University of Turku Research Collegia Lecture Series

To mark the centenary of the University of Turku, the Turku Collegium for Science and Medicine (TCSM) and the Turku Institute of Advanced Studies (TIAS) organized a **public lecture series at the Turku City Library**. The lectures offered a peek into the research conducted by the collegia researchers. The subjects of the lectures ranged from the starry sky to human welfare, the wonders of nature and the super computers of the future. Most lectures were postponed from the spring to the autumn due to the COVID-outbreak.

3 March 2020 PhD **Pere Puigbo**, Collegium Researcher (TCSM), Department of Biology: A brave new microbial world – gene dynamics in bacteria

9 March 2020 FT **Erkki Kankare**, Collegium Researcher (TCSM), Department of Physics and Astronomy: Supernovista kilonoviin - astrofysikaaliset transientit päättävät näyttävästi tähtien elinkaaria

7 October 2020 FT **Saara Nolvi**, Researcher (TIAS), Department of Psychology and Speech-Language Pathology and Department of Medical Psychology, Charité Universitätsmedizin Berlin: Yksilölliset erot herkkyydessä ympäristölle – varhainen stressi, aivojen muovautuvuus ja lapsen kehitys

14 October 2020 FT **Aino Kalske**, Researcher (TCSM), Department of Biology: Kasvit puolustuskeinalla - salakuuntelua ja kemiallisia aseita

27 October 2020 VTT **Mira Kalalahti**, Collegium Researcher (TIAS), Department of Education: Oman elämänsä sankareita? Nuorten koulutus- ja työuraohjaus epävarmuuden ajassa

2 November 2020 FT **Matteo Rossi**, Postdoctoral Researcher (TCSM), Department of Physics and Astronomy: The era of quantum technologies

9 November 2020 Adjunct Professor, LT, **Teemu Niiranen**, Collegium Researcher (TCSM), Department of Clinical Medicine: Kohonnut verenpaine – maailman johtava tautitaakan aiheuttaja

16 November 2020 KT **Heta Tuominen**, Collegium Researcher (TIAS), Department of Teacher Education: Oppimista vai suoriutumista? Motivaation ja hyvinvoinnin yhteydet lapsilla ja nuorilla

23 November 2020 PhD **Helena Duffy**, Collegium Researcher (TIAS), School of History, Culture and Arts Studies: François Ozon's Frantz (2016): The Queering Potential of Heritage Cinema

30 November 2020 Professor **Martin Cloonan**, Director, Turku Institute for Advanced Studies (TIAS): The King as Proletarian: Thinking about Elvis Presley as a worker

► Management Board of TCSM 2020

Chair

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Faculty of Medicine

Members

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Faculty of Science and Engineering

Professor **Heikki Minn**, Department of Oncology and Radiotherapy,
Faculty of Medicine

► Further information

For further information, please visit [Turku Collegium for Science and Medicine website](#).

Follow us on twitter at [@TCSM_UTU](#)

For more information you may also contact TCSM Coordinator [Nina Blom](#).



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