

Stipendier – Apurahat – Grants 2023

6.3.2023

Matematik – Matematiikka – Mathematics

11, 272.560 €

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| Filosofian maisteri Roope Anttila | 48.000 |
| Fine Geometry of Invariant Sets and Measures for Iterated Function Systems | |
| Filosofian tohtori Risto Korhonen | 2.000 |
| Meromorphic solutions and integrability | |
| Masters of Science Rahinatou Yuh Njah | 48.000 |
| Algebraic Number theory and application to Security. | |
| Fil. Mag. (Master of Science) David Norrbo | 58.000 |
| Asymptotic behaviour of Fisher-Hartwig Toeplitz determinants and the norm of the Hilbert matrix operator on weighted Bergman spaces | |
| FM Pyry Petteri Paturi | 24.000 |
| Theorem proving in symbol dynamics using Isabelle | |
| FT Oona Rainio | 14.500 |
| Konformikuvaukset hyperbolisen geometriassa | |
| Filosofian maisteri (matematiikka) Marcus Rosenberg | 24.000 |
| Long time asymptotics of semilinear heat equations in periodic domains | |

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| FD Paavo Salminen | 4.090 |
| Forskarbesök till Universidad de República, Montevideo, Uruguay, för att arbeta med prof. Ernesto Mordecki, och till Université de Lorraine, Nancy, Frankrike, för att arbeta med prof. Pierre Vallois | |
| TkD Rolf Stenberg | 1.970 |
| Föredrag vid konferensen: International Conference on Computational Contact Mechanics. July 5-7, 2023: Turin, Italy. | |
| Diplomi-insinööri Timo Takala | 36.000 |
| JNp- sekä Besov-avaruudet | |
| FT Sottinen Tommi | 12.000 |
| Stokastiikan ja tilastotieteen 41. kesäkoulun järjestäminen | |
| Astronomi – Tähtitiede – Astronomy | 2, 36.000 € |
| Master in Science Annabella Elizabeth Mondino Llermanos | 12.000 |
| Novel massive parallel simulations of particle ring systems: Formation, Composition and Characteristics. | |
| Approaching the understanding of Saturn's fine-scale structures | |
| Diplomi-insinööri Irene Varglund | 24.000 |
| Classification and evolution of Narrow-line Seyfert 1 galaxies | |
| Fysik – Fysiikka – Physics | 21, 550.810 € |
| Filosofian maisteri Anni Antola | 36.000 |
| GCMO-based neuromorphic processors | |

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| M.Sc. Shudhashi Bharthuar | 2.000 |
| Defect characterization of heavily irradiated particle detectors operational at the Large Hadron Collider experiment at CERN | |
| Filosofian maisteri Eemeli Eronen | 2.000 |
| Tutkimusvierailu European Synchrotron Radiation Facilityyn | |
| Doctor of Philosophy Patin Inkaew | 4.000 |
| Extended research visit to CERN as part of the project "Exploiting real-time analysis for Higgs boson measurements at the CMS experiment" | |
| Filosofian maisteri Jani Kastikainen | 11.500 |
| Kvanttikenttien konfainmentin teoreettiseen tutkimukseen väitöstilaisuutta ympäröivälle ajalle Ranskassa | |
| Filosofian maisteri Sonja Kujanpää | 24.000 |
| Novel approach for high-resolution laser resonance ionization spectroscopy of radioactive elements | |
| Master of Science Nikolai Kuznetsov | 36.000 |
| Optical control of spin waves for new generation computing | |
| Master's Matias Mustonen | 24.000 |
| Hybrid topological states in coupled photonic-solid-state systems | |
| Filosofian maisteri Ida Mäkelä | 1.350 |
| Mekaaniset systeemit -tiedeleirikoulu | |
| MSc (Graduation in December 2022) Mika Nurmela | 72.000 |
| N3LO order contribution to the pressure of cold and dense quark matter | |

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| Filosofian maisteri Johannes Parikka | 24.000 |
| Tutkimus koskee DNA-nanoteknologiaa, jossa valmistamme uudenlaisia materiaaleja DNA:n avulla. Tavoitteena on valmistaa metamateriaali, jolla on negatiivinen taitekerroin sinisen valon alueella. | |
| Master of Science Nicola Pranzini | 24.000 |
| Dynamical Black Holes and Quantum Measurements: an observation-based approach to quantum gravity | |
| Master degree Federico Settimo | 96.000 |
| Studies of non-Markovian dynamics in open quantum systems | |
| Filosofian maisteri Miika Suhonen | 7.500 |
| Tutkimusvierailu University College London:iin, Iso-Britanniaan | |
| Dosentti, Filosofian tohtori Mikael Turunen | 6.500 |
| Matka-apuraha The University of Queenslandiin uuden mittausmenetelmän kehittämiseen | |
| Master Natalia Vakula | 3.610 |
| The developing new optical fiber from composite fibers with unique luminescent properties with Dr. Wilfried Blanc's team | |
| Professori Mikko Voutilainen | 7.000 |
| Midsummer school in QCD 2023 --- grant for organizing a two week international postgraduate training course | |
| FM Kalle Vähä-Heikkilä | 1.350 |
| Mekaaniset systeemit -tiedeleirikoulu | |
| Filosofian maisteri Olli Väisänen | 72.000 |
| Maailmankaikkeuden suuren skaalan rakenteiden vaikutukset kosmologian mittaussuureisiin | |

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| Luonnontieteiden kandidaatti (FM valmistuminen joulukuussa 2022) Sami Yrjänheikki | 72.000 |
| Semi-inklusiivinen syvä epäelastinen sironta ydinpartonijakaumien rajoitteena | |
| Masters in Physics Anna Öennerstad | 24.000 |
| Studying a nearly perfect quark–gluon fluid with the ALICE Run 3 data at the CERN LHC | |
| Kemi – Kemia – Chemistry | 21, 372.300 € |
| M.Sc. Master's degree in Pharmaceutical Chemistry and Technology Anisa Biti | 12.000 |
| Development of new radiolabeling strategies for the imaging of tumor-infiltrating lymphocytes in cancer immunotherapy. | |
| Ph.D. in chemistry Yavuz Dede | 29.000 |
| Understanding and Tuning the Luminescent Properties of Chromophores Featuring Boron Difluoride Linkers | |
| PhD Zahra Eshaghi Gorji | 58.000 |
| Direct Capture of CO ₂ from Air by Super-base and Subsequent Utilization | |
| M.Sc. Max Holl | 4.000 |
| Conference in Portland and Research Visit to Princeton University for the project "Magnetic field driven instabilities and pattern formation in systems with atypical interfaces" | |
| PhD Maarit Karppinen | 44.400 |
| Critical-element-free hard-magnetic iron oxide thin films through ALD fabrication for rapidly increasing data storage needs | |
| M.Sc Sachin Kochrekar | 1.800 |
| Research visit to Strasbourg University for one month | |

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| Master of Science Daniel Langerreiter | 24.000 |
| Sustainable synthesis of cellulose based self-sterilizing materials via solid-state reactions | |
| TkT Markku Leskelä | 2.100 |
| Matka-apuraha ALD 2023 konferenssiin | |
| FM Sara Lund | 12.000 |
| From exfoliated graphite to graphene-based anodes for sustainable electrochemical applications | |
| Master of Science Mark Martínez-Klimov | 24.000 |
| Production of biomass-derived renewable jet fuel. | |
| FT Jani Moilanen | 8.800 |
| The 32nd Jyväskylä Summer School -kesäkoulun opettajien matka- ja majoituskulut | |
| MSc Samira Mokhtari | 4.000 |
| Combating meat spoilage caused by Leuconostoc and reducing the ripening time in the production of cheese with lytic bacteriosis of Lactococcus lactis LAC460 | |
| PhD Iuliia Pilipenko | 29.000 |
| Design and engineering of in situ forming dynamic hydrogels for long-term ocular drug delivery | |
| FD (1967) Pekka Pyykkö | 2.000 |
| Kongressresor under år 2023, i synnerhet 17th Int. Conf. Quantum Chem. i Bratislava den 25.6.-1.7.2023 med ev. satellitsymp i Graz den 2-5.7. Av tidigare stipendium 2020 återstår dessutom 615 e. | |
| Teknologie doktor Tapio Salmi | 6.000 |
| Finland-Chile School and Forum for Sustainable Technology | |

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| FM Otto Seppänen | 8.000 |
| Funktionaalisia ligandeja ja hopeavapaata kultakatalyysiiä käsittelevän väitöskirjan loppuunsaattamiseen | |
| FD Dage Sundholm | 2.200 |
| Utveckla numeriska metoder för tolkning av magnetisk inducerade strömtätheter. Metoden används för att studera strömtätheter i åtta-formiga molekyler och resultaten presenteras vid två konferenser | |
| Ph.D Dattatraya Ukale | 29.000 |
| Multiply-entangled de novo proteins | |
| MSc Parastoo Vahdatiyekta | 24.000 |
| Discrimination of multiple metabolite biomarkers in urine using electronic tongue – A proof-of-concept for non-invasive and early-stage diagnosis of prostate cancer | |
| Master of Science Jianxin Zhang | 24.000 |
| Recovering cobalt sulfate from aqueous solutions via cooling crystallization | |
| Ph.D Ying Zhou | 24.000 |
| Biorefining of cereal side-streams: science for innovative super foods and their potential for human metabolism (InteNutri) | |
| Medicinsk kemi – Lääketieteellinen kemia – Medical Chemistry | 39, 496.800 € |
| MSc Ida Alanko | 12.000 |
| Mot nya antibakteriella medel: Hämma virulensfaktorer hos Staphylococcus aureus | |
| Ph.D.; Group leader Matjaz Barboric | 24.000 |
| Combinatorial targeting of transcriptional cyclin-dependent kinases in cancer | |

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| PhD, Docent Brendan Battersby | 10.000 |
| Deciphering the temporal and spatial proteomic landscape of mitochondrial translation inhibition. | |
| Master of Science Amina Djurabekova | 2.500 |
| Molecular mechanism of Active- to Deactive-state transition in <i>Yarrowia lipolytica</i> respiratory complex I | |
| MKD Carl G. Gahmberg | 12.000 |
| Reglering av blodcellers integriner och interaktion med hemoglobin vid cancer | |
| Master of Science Aishwarya Gondane | 24.000 |
| O-GlcNAc transferase epistatically regulates gene expression in response to transcriptional stress. | |
| Docent Mikaela Grönholm | 20.000 |
| 3D tumörmodeller som testplattform för virus-immunterapi och T-cell studier | |
| Filosofian maisteri Joni Haikonen | 24.000 |
| NEUROBIOLOGICAL BASIS OF PSYCHIATRIC DISORDERS ASSOCIATED WITH EARLY LIFE STRESS | |
| LKT, dosentti Klaus Hedman | 3.000 |
| Omfattande analys av antikroppar mot SARS-CoV-2 (COVID-19) i återinfektioner, infektioner hos vaccinerade individer och vid konvalescent plasma behandling av COVID-19 patienter | |
| PhD Matilda Holm | 14.500 |
| Investigating the impact of estrogen receptor beta on intestinal tumor initiation and stemness | |
| Docent Carina Holmberg-Still | 10.000 |
| Kärnans proteasomkapacitet förmedlar celltypspecifika substratresponser | |

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| MSc Hazem Ibrahim | 5.000 |
| Mutant RFX6 disturbs pancreatic progenitor identity and its haploinsufficiency impairs beta-cell functionality predisposing to type-2 diabetes | |
| MSc Shruti Jain | 800 |
| Extracellular vesicle based glycovariant biomarkers for early cancer diagnostics | |
| Master in Science Sweta Jha | 12.000 |
| Regulation of protein homeostasis – cross-talk between ubiquitin-proteasome system (UPS) and autophagy-lysosomal pathway (ALP) | |
| FD, Docent Sinem Karaman | 5.000 |
| Rollen av endotelceller i utvecklingen av fettceller | |
| TkT, Dos. Hannu Koistinen | 8.000 |
| Proteases as targets for prostate cancer therapy | |
| Ph.D., Docent (under review) Vadim Le Joncour | 5.000 |
| Neurodevelopmental features of the Neoplastic brain | |
| PhD, docent Anastasia Ludwig | 10.000 |
| Abnormal sensory processing in autism: the role of the inhibitory network maturation | |
| Msc Sudarrshan Madhavan | 24.000 |
| Regulation of T cell adhesion and migration by the protein phosphatase calcineurin | |
| Master 2 Sarah Massaad – COTUTELLE GRANT – | 60.000 |
| The Control of Cancer Cell Adhesion and Migration by Mechanosensitive Calcium Channels | |
| Docent Annika Meinander | 6.000 |
| Met1-ubiquitination as a trigger of inflammation-induced cancer | |

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| Docent Tommy Nordström | 5.000 |
| Jonkanaler som potentiella terapeutiska mål hos glial/gliom progenitorceller | |
| PhD Nidhina Haridas Pachakkil Antharaparambath | 8.000 |
| Delineating the function of GOLM1 in cholangiocytes and its contributions in liver diseases by biochemical and multiomics approach | |
| PhD Simon Pfisterer | 8.000 |
| Utilizing functional cell data to optimize treatment selection and risk assessment in secondary prevention of myocardial infarction | |
| Filosofian tohtori (biokemia) Henni Piirainen | 14.500 |
| Nukleotidinvaihto - kohde uudentlaisille malarialääkkeille | |
| Dosentti Ulla Pirvola | 8.000 |
| Molekulaariset mekanismit, jotka aiheuttavat kuuloaistinsolujen patologian ja kuulovaurion ikääntymisen myötä | |
| M.Sc. Khushbu Rauniyar | 12.000 |
| A hyperbright tag for the real-time in-vivo tracing of low-abundance secreted proteins | |
| FM Julius Rönkkö | 2.500 |
| Taudinmallintaminen indusoiduista pluripotentista erilaistetuilla Schwannin soluilla | |
| FD Lydia Sagath | 58.000 |
| Uncovering hidden causative variants of rare diseases | |
| Dosentti, FT Pia Riitta-Maria Siljander | 8.000 |
| Platelet education by cancer-derived extracellular vesicles – discovery of novel biomarkers | |

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| FT, dosentti Petra Sipilä | 8.000 |
| Role of androgen receptor SUMOylation in regulation of epididymal functions and male fertility | |
| M.Sc Christel Sourander | 12.000 |
| Identifying the effect of JNK on Neural Activity and Synaptic Plasticity Related to Anxiety- and Depressive-like Behaviours | |
| M.Sc. Vignesh Srinivasan | 5.000 |
| The role of USP14 phosphorylation in regulating protein degradation in neurological disorders | |
| Master of Science Juuso Taskinen | 12.000 |
| The role of ER membrane contact site proteins in human endothelial cells | |
| Master's Degree in Molecular Biomedicine Blanca Tejada González | 12.000 |
| Dynamic micropatterns as a novel tool to reveal spatiotemporal regulation of BCR signalling | |
| Filosofian tohtori Matti Turtola | 5.000 |
| Lähetti-RNA:n polyadenylaatio uuden sieniantibiootin kehityskohteena | |
| Professori Antti Vaheri | 10.000 |
| Viromien interaktiot niveljalkaisissa ja tietyissä ihmisen taudeissa | |
| FT (Lääketieteellinen Systemibiologia, Ltdk, HY), Dosentti (Molekulaarinen Systemibiologia, HY) Markku Varjosalo | 5.000 |
| Kinaasi-geenifuusiot lääkekehityskohteina | |
| Ph.D. Vladislav Verkhusha | 12.000 |
| "Development of destabilized multicolor fluorescent nanobodies for multiplexed imaging of endogenous proteins and biosensors". It is Project Grant application for running research cost of this project | |

Skolundervisningen – Kouluopetus – Teaching

2, 66.000 €

policies magister **Emilia Juslin**

6.000

Understöd för tävlingen TekNatur 2023-24, för att väcka ungas intresse för naturvetenskap och teknik, och lärarseminariet SIC för ämneslärare i naturvetenskaper och matematik.

FM **Mikko Myllykoski**

60.000

Innostavaa avaruusteemaista tiedekasvatusta - ESERO Finland

| Vetenskap – Ala – Field of Science | Grants | % | Total | % |
|---|---------------|------------|------------------|------------|
| Fysik – Fysiikka – Physics | 21 | 21,9 | 550.810 | 30,7 |
| Kemi – Kemia – Chemistry | 21 | 21,9 | 372.300 | 20,7 |
| Skolundervisning – Kouluopetus – Teaching | 2 | 2,1 | 66.000 | 3,7 |
| Med. Kemi – Lääk. Kemia – Medical Chemistry | 39 | 40,6 | 496.800 | 27,7 |
| Matematik – Matematiikka – Mathematics | 11 | 11,5 | 272.560 | 15,2 |
| Astronomi – Tähtitiede – Astronomy | 2 | 2,1 | 36.000 | 2,0 |
| Totalt – Yhteensä – Total | 96 | 100 | 1.794.470 | 100 |

| Typ – Laji – Type | Grants | % | Total | % |
|--|---------------|------------|------------------|------------|
| Doktorand – Väitöskirjatutkimus – Doctoral research | 36 | 37,5 | 1.037.000 | 57,8 |
| Post doc | 10 | 10,4 | 328.500 | 18,3 |
| Forskningsstipendier – Tutkimusapurahat – Research gran. | 27 | 28,1 | 352.700 | 19,7 |
| Resestipendier – Matka-apurahat – Travel grants | 23 | 24,0 | 76.270 | 4,3 |
| Totalt – Yhteensä – Total | 96 | 100 | 1.794.470 | 100 |