



**UNIVERSITY  
OF TURKU**

Faculty of Medicine

OHJELMA-PROGRAMME

# TERVEYDEKSI - NEW DISCOVERIES! 24.-26.4.2019

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**Biolääketieteen opinnäyteseminaari**  
**MSc Thesis Seminar**  
**Mediina D, Sakari Alhopuro Lecture Hall**



**Wednesday 24.4.2019**

**Pre-Seminar**

MSc Degree Programme in Biomedical Sciences – Biomedical Imaging track/MSc thesis plan session

8:00-8:10 Crystallographic Binding Studies of New Inhibitors against the M2 Protein of Influenza Virus  
*BSc Noushin Madani*

8:10-8:20 Keratins as regulators of colonocyte mitochondria and intestinal barrier function  
*MSc Taina Heikkilä*

8:20-8:30 Hyperinsulinemic-euglycemic clamp in the anesthetized rat: A protocol for in vivo imaging studies  
*B. Eng. Anna Kauppinen*

8:30-8:40 Unraveling significance of receptor-ligand interaction on Jagged1 mobility, filopodia and ligand clustering in the Notch signaling pathway  
*MSc Khashayar Ronagh*

**9:00**

***Opening words Professor Ullamari Pesonen***

*Chair University teacher Elena Tcarenkova*

9:05-9:25 Keratins as regulators of colonocyte mitochondria and intestinal barrier function  
*MSc Taina Heikkilä*

9:25-9:45 Crystallographic Binding Studies of New Inhibitors against the M2 Protein of Influenza Virus  
*BSc Noushin Madani*

9:45-10:05 Investigating the Effects of UV-B Stress on the Regulation of AOX1A in Foliar Mitochondria  
*BSc Allison Mcguire*

10:05-10:25 Unraveling significance of receptor-ligand interaction on Jagged1 mobility, filopodia and ligand clustering in the Notch signaling pathway  
*MSc Khashayar Ronagh*

***Break 15 min***



- 10:40-11:00      MicroRNA-107 Regulates Adiponectin Expression and Human Adipocyte Differentiation  
*BSc Maria Ahonen*
- 11:00-11:20      Developing a High-Throughput (HT) system for monitoring Zebrafish Behaviour  
*MSc Uruj Fatima Sarwar*
- 11:20-11:40      Correlation of Musicality and Cognitive Skills in Persons with Alzheimer's Disease  
*BSc Pavel Zaitsev*
- 11:40-12:00      3D-Bioprinting of Nanoparticle Incorporated Cell-Laden Bioink for Muscle Tissue Engineering  
*BSc Sami Sanlidag*

**Thursday 25.4.2019**

*Morning session: Chair Professor Ullamari Pesonen*

- 9:00-9:20          The Effect of Alcohol Hangover and Residual Zopiclone on Spatial Perception and Driving Skills  
*Bachelor of Health Care Riina Palmroth*
- 9:20-9:40          Tolerability of parenteral iron infusions: iron isomaltoside-1000 versus ferric carboxy-maltose  
*BSc Sanna Veijalainen*
- 9:40-10:00        Development of an in vitro test battery to predict toxicity of indoor air  
*BSc Jonna Ahoniemi*
- 10:00-10:20        Characterization of the novel solute carrier 26A7 gene and its role in thyroid cell function  
*BSc Katariina Tanner*

*Break 15 min*



- 10:35-10:55      Chicken Chorioallantoic Membrane as a Model for Glioma Cell Growth, Invasion and Treatment  
*BSc Aleksi Hakkarainen*
- 10:55-11:15      DNA repair genes in prostate cancer – characterization of novel molecular mechanisms  
*BSc Ylva Junila*
- 11:15-11:35      Blocking Clever-1 on human monocytes inhibits the growth of aggressive breast cancer  
*BSc Jenna Rannikko*
- 11:35-11:55      The role of ER/PGR mediated signaling in the immune response of myeloid cells  
*Fil.yo Anja Hjelt*

*Break 45 min*

*Afternoon session: Chair University teacher Sanna Soini*

- 12:40-13:00      Characterization of glia-vascular interactions in a mitochondrial disease mouse model  
*M.D Sofiia Rybas*
- 13:00-13:20      In vitro Parkinson`s Disease model development  
-In vitro alpha-synuclein aggregation assay for target validation and drug screening  
*BSc Severi Anttila*
- 13:20-13:40      Effects of GABAA receptor  $\delta$ -subunit domains on agonist binding  
*BSc Minna Eriksson*
- 13:40-14:00      Investigation of molecular interactions of prenylflavonoids at GABAA receptor subunits  
*Pharmacist Tamara Somborac*

*Break 15 min*



- 14:15-14:35 Protein-encapsulated mesoporous silica nanoparticles for the treatment of bacterial biofilms  
*BS Pharm Mariam Gouda*
- 14:35-14:55 In vitro evaluation of nanoantibiotics  
*BSc Alexandra Manea*
- 14:55-15:15 Identifying the issues concerning zeta potential measurements of polymer nanoparticles  
*BS Pharm Md. Rifahul Taiseer*

**Perjantai 26.4.2019**

*Aamupäivän puheenjohtajana: Apulaisprofessori Noora Kotaja*

- 9:00-9:15 Raskausajan mikrobiston siirtymä lapselle  
*Fil. yo Salla Puumalainen*
- 9:15-9:30 Kroonisen stressin vaikutus ruokahalun säätelyyn ja lihavuuteen  
*Fil. yo Liisa Jokinen*
- 9:30-9:45 Varhaislapsuuden mikrobilääkehoitojen vaikutus suolistomikrobistoon ja lihavuuden kehittymiseen myöhemmällä iällä  
*Fil. yo Viivi Lankinen*
- 9:45-10:00 Suolistomikrobisto ja Parkinsonin tauti  
*Fil. yo Katariina Järvinen*
- 10:00-10:15 Masennuksen ja suolistomikrobiston välinen yhteys  
*Fil. yo Peppi Raunioniemi*

*Tauko 15 min*

- 10:30-10:45 Pakurikäävän bioaktiiviset yhdisteet  
*Fil. yo Miika Niemeläinen*
- 10:45-11:00 Tyypin 1 diabeteksen varhaiset merkit  
*Fil. yo Sara Soikkeli*
- 11:00-11:15 JAK-STAT-signaalintireitin säätely bakteeri-infektion aikana  
*Fil. yo Olli Laaksoaho*
- 11:15-11:30 Masennuslääkkeiden vaikutus ajokuntoon  
*Fil. yo Julius Orpana*



11:30-11:45 Jodin saanti ja sen vaikutukset raskauden aikana  
*Fil. yo Heidi Pirhonen*

**Tauko 45 min**

**Iltapäivän puheenjohtajana. Professori Sari Mäkelä**

12:30-12:45 Endometrioosin single cell –analytiikka  
*Fil. yo Oona Niemi*

12:45-13:00 Endokannabinoidijärjestelmä ja HPA-akselin häiriöt skitsofreniassa  
*Fil. yo Pihla Kaipainen*

13:00-13:15 Endokannabinoidien merkitys neurogeneesissä  
*Fil. yo Salli Kärnä*

13:15-13:30 Interferonista ibudilastiin - MS-taudin lääkehoito nyt ja tulevaisuudessa  
*Fil. yo Maija Hakula*

13:30-13:45 Kantasolut luurankolihasen regeneraatiossa  
*Fil. yo Suvi Parviainen*

**Tauko 15 min**

14:00-14:15 CAR-T-solut syövän immunoterapiassa  
*Fil. yo Minna Koskinen*

14:15-14:30 Farmakogenomiset biomarkerit eturauhassyövän kemoterapian kliinisissä kokeissa  
*Fil. yo Leena Koskinen*

14:30-14:45 Munasarjasyövän histologiset alatyypit  
*Fil. yo Jannika Rovapalo*

14:45-15:00 Seulontamenetelmä syöpäproteiinien rakenteellisesti tärkeiden rakennealueiden tunnistamiseen  
*Fil. yo Henrik Honkanen*

**Seminaarin päätössanat – Professori Sari Mäkelä**