

## PhD students of the Research Track Drug Development

### **Amaury O'Jeanson**

I'm a pharmacist by training, I did my core study in Rouen (France), and my hospital residency in Montpellier (France). Before joining the Pharmacometrics Research Group, I was interning at the Clinical Pharmacometrics Department of Roche (Basel, Switzerland). My PhD project involves designing a clinical study in pneumonia patients infected with carbapenemase-producing *K. pneumoniae* treated with ceftazidime-avibactam (CEF-AVI), and supporting the conduct of this clinical study. I'll develop population PK models for CEF and AVI based on the generated data; define relationships between antibiotic concentration, MIC, bacteria mRNA and biomarkers, and the measurements' in PKPD-models for both CEF and AVI to guide future individual dose-adjustments in model-based precision dosing.



### **Andrea Benediktsdottir**

I have a B.Sc. in Pharmacy from University of Iceland and M.Sc. in Drug Discovery and Development from Uppsala University 2017. I am currently in the 3rd year of my PhD studies in Anders Karléns Drug Design and Discovery group, with Anja Sandström as my main supervisor at the Department of Medicinal Chemistry. My project is about designing and synthesizing new bacterial protease inhibitors, aiming for promising antibacterial hits.



### **Budi Octasari Susanto**

I am a pharmacist by training since 2016 after finishing my pharmacist education from Universitas Gadjah Mada, Indonesia. I graduated with MSc degree in Pharmaceutical Modeling from Uppsala University, Sweden in 2018. My PhD research project mainly focuses on translational pharmacometrics modeling in tuberculosis drug development.



### **Pierre Cheung**

I am currently a PhD in the Department of Medicinal Chemistry in the group of Translational PET imaging under the supervision of Olof Eriksson. I previously did my graduate studies at UCLouvain, Belgium in the field of Biomedical Sciences. I am currently working on quantification of beta islets mass through the use of PET imaging method.



### **Eman Ibrahim**

I am a pharmacist from Cairo, Egypt. Currently, I am a PhD student at pharmacometrics research group, Department of Pharmacy. I got my MSc degree in pharmaceutical sciences from Uppsala University (pharmaceutical modelling program, thesis project within pharmacometrics) and my BSc degree in pharmaceutical sciences from Ain Shams University, Egypt. My research is focused on translational (pharmacometrics) models for anticancer drug development mainly cancer vaccines.



### **Erik Rein-Hedin**

I work as a clinical research physician and I am an industry-based doctoral student at the Department of Surgical Sciences. I have acted as principal investigator on numerous clinical trials in all clinical phases but I am mainly dedicated to Phase I trials, including first-in-human. My research project aims to help improve design and conduct of first-in-human clinical trials in healthy volunteer subjects. I am also a member of The Swedish Pharmaceutical Society where I sit as a board member of the scientific section for clinical trials.



### **Esther Olaniran**

I completed my master's degree in Pharmacy at Uppsala University in 2020 and shortly after, I commenced my PhD studies at the same university under the supervision of Luke Odell. My current research focuses on the design and synthesis of small molecule IRAP inhibitors, which are potential drugs for the treatment of neurological diseases in which memory dysfunction is observed.



### **Oliver Degerstedt**

I am a PhD student in the newly formed research group called Translational drug discovery and development. Born in Sweden, I grew up in Luxembourg and got educated in the United Kingdom (MChem). After a graduate programme at AstraZeneca Gothenburg I moved to Uppsala in late 2017. My research is related to in vitro investigations of tumor drug delivery with a special focus on the anti-cancer drug doxorubicin.



### **Fanny Lundmark**

I have a Master of Science Programme in Pharmacy from UU. My PhD project investigates the use of a heterodimeric radiotracer with the ability to bind two different targets overexpressed in prostate cancer can be beneficial compared to using the monomers respectively. Therefore, my project focus on development of new heterodimeric radiotracers targeting PSMA and GRPR for imaging of prostate cancer, with specific focus on improving the affinity towards PSMA. My project involves organic synthesis, radiochemistry, in vitro and in vivo studies.



### **Frida Bällgren**

I have a Master of Science degree in Pharmacy from Uppsala University and I am a PhD Student in translational Pharmacokinetics Pharmacodynamics. My research project is about brain specific drug delivery, by targeting active uptake at the blood-brain barrier. The aims of the project are to evaluate the potential of using active uptake at the blood-brain barrier to improve drug delivery to the central nervous system in humans, in health and disease, and to optimize methods for enhanced translational predictions.



### **Marcus Söderström**

I studied a Master of pharmacy at Uppsala University. Currently, I am studying for my PhD inorganic chemistry at the Institution of Medicinal Pharmacy, at the moment at year 3. My research studies are focused on development of new chemical structures and investigation of these toward antibiotic properties. There is also a focus on method development, such as new approaches to known chemical transformations or novel methods for new structural classes.



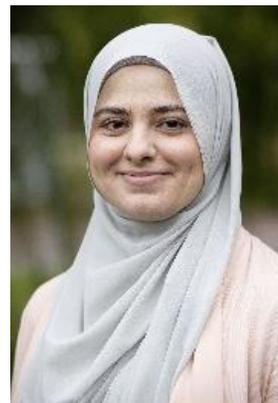
### **Marcus Wanselius**

I wrote my master thesis at the Department of Pharmacy, Uppsala University and graduated in 2014. After working as a pharmacy manager for several years, I started my PhD studies within Pharmaceutical Physical Chemistry at Uppsala University in spring 2018. My research project investigates how active pharmaceutical ingredients in subcutaneously administered drug formulations interact with the components of the extracellular matrix in the subcutaneous adipose tissue (*hypodermis*). The investigations provides a basis for the development of novel *in vitro* methods to model the behavior of pharmaceutical products administered subcutaneously.



**Maryam Tofiq**

I graduated from Uppsala University with a M.Sc. degree in Pharmacy in 2015 with a degree project in Pharmacokinetics. I then worked as a rotational pharmacist in a trainee program at a pharmacy company in Sweden. Since September 2018, I am pursuing my doctoral studies within Swedish Drug Delivery Center (SweDeliver) in the Pharmaceutics group. My research project is on tablet forming ability of dry granulated particles. In my current project, I work on the assessment of mechanical properties of dry granulated particles using analytical powder compression.

**Rosita Carolina Kneiszl**

I am a registered pharmacist with my master's degree from Uppsala University. I performed my master thesis at Harvard Medical School and Brigham and Women's hospital, Boston, US. Currently, I am a second-year PhD student at the Department of Pharmacy, Faculty of Pharmacy at Uppsala University. In my PhD project, I study oral drug delivery of peptides with computational tools such as molecular dynamics simulations.

**Quentin Laborde**

I have a bachelor degree in cell biology and physiology from the University of Clermont-Ferrand, France. After a master's degree in marine biological sciences, specialization in Valorization of Biotechnological Marine Resources, at the European Institute for Marine Studies, Plouzané, France, I am currently conducting my PhD studies at the Department of Pharmaceutical Biosciences, Uppsala University. Here, I focus on the discovery, characterization and evaluation of the potential utility of alpha-nemertides (peptide toxins) from nemertean worms as pharmaceutical and/or agricultural tools.

**Emmi Puuvuori**

I am a PhD student at the Department of Medicinal chemistry at Uppsala University. My project focuses on translational PET imaging targeting inflammation.



### **Shaquib Rahman Ansari**

I graduated from the University of Copenhagen with an MSc in Pharmaceutical Sciences and I have worked with liposomal vaccines for intrapulmonary delivery. I am a PhD student at the Department of Pharmacy and my current research goal is to develop stimuli-responsive oral drug delivery systems, e.g. by magnetic hyperthermia, to facilitate non-invasive local delivery of macromolecular drugs in the intestine.



### **Shno Asad**

I graduated with a Master's degree in pharmacy and chemistry from the University of Gothenburg in January 2019 and I am a PhD student at the Department of Pharmacy. My current work aims to develop a new strategy to diagnose inflammatory bowel disease (IBD) using functional nanomaterials. By creating an oral vehicle that incorporates magnetic nanoparticles, I aim to establish a noninvasive diagnostic approach, as well as to deliver therapeutics in a localized manner for a more efficient and targeted treatment.



### **Leticia Arrington**

I have a BSc. in Pharmaceutical Sciences and MSc. in Pharmacology. Currently, I am doing my PhD studies within a cooperative project between the Pharmacometrics Research Group at Uppsala University and Pharmacometrics department -Merck Sharpe & Dohme., (USA). My project focusses on disease progression modeling utilizing item response theory and application in clinical trial development. The aim is to evaluate the advantages and limitations of IRT methodology in a disease progression framework and its ability to inform clinical trial design and analysis.



### **Estelle Chasseloup**

I am a PhD student in my final year within the Pharmacometrics Research Group at Uppsala University. My current research topic is methodology in Pharmacometrics. I studied Pharmacy at Aix-Marseille Université in France, including a Master's degree on Pharmacokinetics research. I have done multiple internships in population modelling in public institutions (APHM: a public hospital in Marseille), and private institutions (Roche, Galderma, and Servier).



### **Rami Ayoun Alsoud**

I am a pharmacist by training, graduating from Kuwait University in 2015. I then graduated with MSc degree in Pharmaceutical Science from Uppsala University, Sweden in 2019. My PhD research project mainly focuses on employing pharmacometric modeling techniques to aid tuberculosis drug and biomarker development.



### **Lina Keutzer**

I am a registered pharmacist from Berlin, Germany. Currently, I am a second-year PhD student at the Pharmacokinetics and Quantitative Pharmacology Research Group, Department of Pharmacy. My research is focused on building translational (pharmacometric) models for development and dose individualization of drugs against tuberculosis.



### **Matthew Rosenberg**

I completed a Bachelor of Biomedical Science, followed by a Masters in Drug Discovery and Development, at Victoria University of Wellington in New Zealand. In 2020 I moved to Uppsala to begin my PhD studies with Lindon Moodie, as part of the Drug Design and Discovery group in the Department of Medicinal Chemistry. My PhD project is focused around developing new strategies towards small-molecule antibiotics.



### **Rebekkah Hammar**

American-born, I grew up in Germany, where I studied both Pharmaceutical Sciences (B.Sc., M.Sc.) and Pharmacy (State Examination) at LMU Munich. After interning at Roche in Regulatory Affairs, I am now pursuing my PhD in Drug Delivery (Artursson group). My project focuses on intra- and extracellular drug concentrations in the colon and is part of the COLOTAN ETN.

