

# Translational Pharmacology

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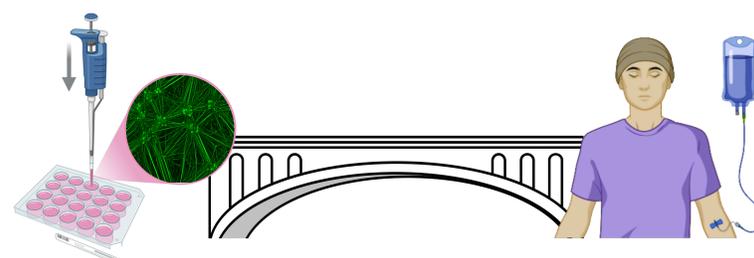
## 1. Primary Research Focus

Translational pharmacology is a dynamic field that bridges the gap between laboratory research and clinical practice. By studying drug effects across various settings, we aim to improve drug translation and understand variability in patient responses.

In our research group, students have the unique opportunity to engage in **cutting-edge** projects that combine cell-based studies with clinical trials.

Currently we are focusing on:

- **Chemotherapy-Induced Peripheral Neuropathy,**
- **Biomarker development for neurotoxicity**
- **Impact of environmental toxins like PFAS.**



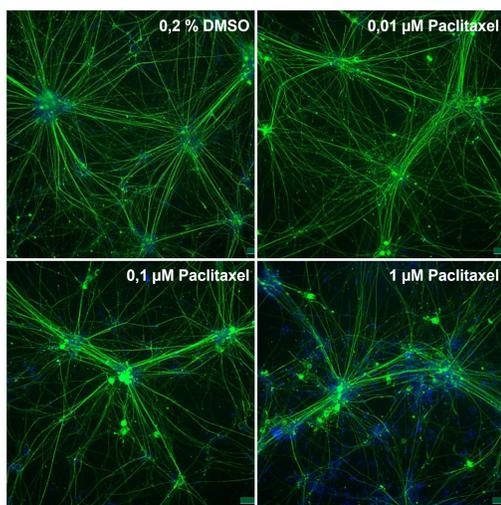
## 2. Methods and Resources that are available to you

By joining our team, you will ... **gain hands-on experience with advanced methodologies**  
 **contribute to personalized medicine initiatives.**

Our collaborative environment encourages skill development in functional genomics, molecular biology, and clinical research, providing you with valuable tools for your future career.

Human iPSC-derived cells of the peripheral nervous system to study chemotherapy neurotoxicity

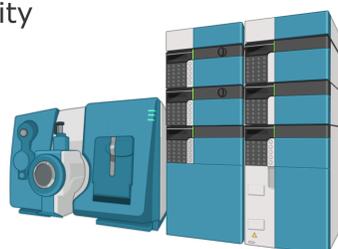
- CRISPRi, CRISPRa
- Patient-derived iPSC
- Co-culture with Schwann cells
- High-throughput drug screen
- Biomarkers



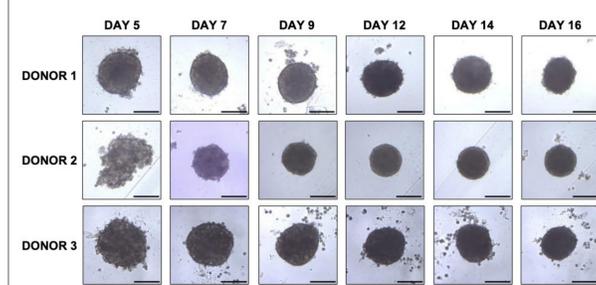
Mortensen et al. PAIN 2023

Primary human hepatocytes to study PFAS impact on the liver

- LC-MS/MS to study liver metabolic function
- Co-culture with Kupffer cells
- Hepatotoxicity



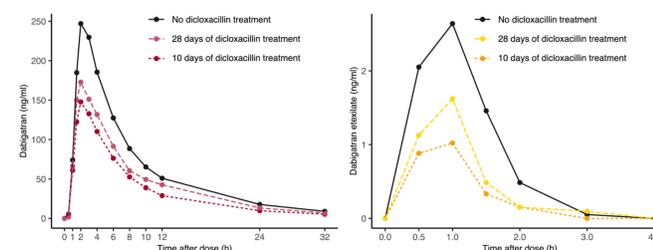
3D SPHEROID CULTURE OF PRIMARY HUMAN HEPATOCYTES



Järvinen et al. CPT 2023

Clinical studies to study drug toxicity and drug effects

- In healthy volunteers to study PK/PD properties of drugs
- In patients to understand drug toxicity or PK/PD



Iversen et al. BJCP 2024

## 3. Project in Translational Pharmacology

Located in Toften with new laboratories, our group combines strong funding momentum with a collaborative and supporting atmosphere. We actively support PhD researchers in both scientific and personal development. We are flexible with regards to projects within the abovementioned methods and will try to accommodate wishes for specific projects within our methodology.

Please reach out to [tstage@health.sdu.dk](mailto:tstage@health.sdu.dk) if you are interested in learning more about our work!