

## **Paediatric Pharmacology and Pharmacometrics Research Centre at the Children's University Hospital of Basel**

Paediatric Pharmacology and Pharmacometrics research to better characterize the effects of growth, development and diseases on how to optimize the use of medicines in neonates, infants, children, and adolescents.

### **Eckenstein-Geigy Professorship of Paediatric Pharmacology at University of Basel**

Prof. Dr. med. Johannes van den Anker, Chair, and Prof. Dr. med. Marc Pfister,

Vice-Chair, lead the recently formed Department of Paediatric Pharmacology at the University Children's Hospital of Basel (UKBB)/University of Basel. The creation of this department was made possible by a generous donation of the Eckenstein-Geigy Foundation. UKBB is the second largest free standing university children's hospital in Switzerland and its researchers publish around 150 scientific articles per year. The Department of Paediatric Pharmacology consists of a clinical research center supported by a computer modeling and simulation lab for optimal design and analysis of clinical studies. The focus of the conducted investigations is on translational and clinical research in developmental pharmacology and paediatric clinical trials using research tools such as pharmacoepidemiology, pharmacogenetics, metabolomics, pharmacometrics and systems pharmacology.

The overarching goals of this new research center are to

- 1 train and mentor the next generation of clinician-scientists, clinical
- 2 pharmacologists, pharmacometricians, and other researchers in paediatrics,
- 3 generate new scientific insights and publish research articles in top tier journals,
- 4 advance the scientific disciplines of paediatric pharmacology, systems pharmacology and pharmacometrics, facilitate research and development of new medicines in paediatrics,
- 5 optimize utilization of therapeutics in paediatrics, and
- 6 help/benefit sick children and their parents.

As an example UKBB will be one of only four European paediatric pharmacology centers providing a Master's Degree in paediatric pharmacology.

The Department of Paediatric Pharmacology and its research center offer positions to

- > Clinicians (e.g. Paediatrics/Internal Medicine)
- > Clinical Pharmacologists/Pharmacometricians
- > Engineers/Mathematicians/Statisticians
- > MD/PharmD/PhD post-doc fellows

The overall goal of these position are to provide

- 1 clinical and translational research experience in both a clinical and academic setting,
- 2 scientific joint collaborations with hospitals, academic centers and pharma/biotech companies,
- 3 opportunities to present at international scientific conferences and publish high-profile papers, and most importantly
- 4 professional development to pursue a career in academia, industry or regulatory agencies.

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