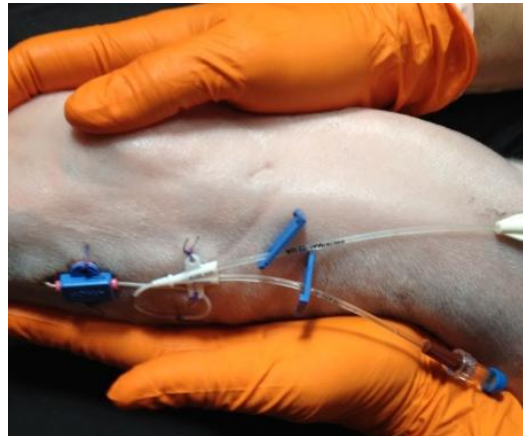


Pigs as an animal model in PK/PD research:

Artesunate – *Sinou et al. 2008*
Captopril – *Pereira et al. 1996*
Ciclosporin A – *Cibulskyte et al. 2006*
Dexmedetomidine – *Ezzati et al. 2014*
Diuretics – *Noordewier et al. 1978*
Etoposide – *Sandberg et al. 2010*
Fentanyl – *Rey-Santano et al. 2014*
Glipizide – *Kulkarni et al. 2012*
Heparin – *Andrew et al. 1989*
Insulin – *Plum et al. 2000*
Ketoprofen – *Horie et al. 2009*
Morfine – *Tumbaga et al. 1998*
Rifampin – *Roth et al. 2013*
etc.



Piglets as a Pediatric Animal Model





“Children are sometimes little pigs”

What can we offer?

The main research mission of the **Laboratory of Pharmacology and Toxicology** at the Faculty of Veterinary Medicine of Ghent University (Prof. Dr. S. Croubels, Prof. Dr. P. De Backer and Prof. Dr. M. Devreese) consists of generating and communicating insights in *in vivo* PK/PD processes of xenobiotics, and pharmacokinetic modeling of human and veterinary drugs in different animal species with a focus on pigs.

Techniques

- Frequent **blood sampling** in pigs from 6 days to 8 weeks by **surgical catheterization**
- **Urine collection** in boars (6 days – 8 weeks)
- **Chronic toxicity** studies
- **Bio-analysis** of veterinary and human drugs using 4 LC-MS/MS (all Triple Quad) and 2 HR-MS (Orbitrap and Q-TOF) instruments

Access within the Faculty of Veterinary Medicine to perform

- **Necropsy**
- **Histology** of selected organs and tissues
- **In vivo or post-mortem imaging** (CT, MRI, echo, RX)
- Several other techniques available

Good Laboratory Practice

The Laboratory of Pharmacology and Toxicology is OECD **GLP compliant since 2001 to conduct:**

- *In vivo* PK/PD trials
- Pharmacokinetic modeling
- Safety and residue studies
- Bio-analysis



Target Audience

For over 20 years experience in collaborating with following industrial partners:

- Veterinary pharmaceutical companies
- Feed additive industry

Contact Us

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