

Recruitment event of IT-DED³

Laboratory of Microbiology,
Parasitology and Hygiene (LMPH)
Antwerp University
Paul Cos

May 24, 2018

ESR 3





IT-DED3

Staff

Prof. Paul Cos

- Pharmacist (1995), PhD in Pharm. Sciences (2001)
- Chairman of the educational committee of Pharm. Sciences
- Director of training in the ETN 'Print-Aid'
- Output: 19 defended PhDs; PI of 40 research grants; 185 papers

ZAP	4
Post-doc	3
PhD	15
ATP	8
TOTAL	30









The lab LMPH

Location

- Antwerp (Wilrijk), Belgium
- Building S 7th floor











IT-DED3

The lab LMPH

Infrastructure

- Animal facility (IVC cages, operating theater, ...)
- 15 LAF cabinets
- Fluorescence microscopy
- **Real-time PCR**
- **EPR** equipment

















The lab LMPH

Activities

- New therapies for topical and lung infections
- Macrophage and intracellular pathogens
- Oxidative stress and inflammation
- **Development of new animal models**





Experimental Eye Research 146 (2016) 172-178



Contents lists available at ScienceDirect



journal homepage: www.elsevier.com/locate/yexer



Research article

Optimization and validation of an existing, surgical and robust dry eye rat model for the evaluation of therapeutic compounds





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ESR3 project description

ACTIVITIES

- Develop a new rat model for evaporative dry eye
- Evaluate selected compounds in two animal models
- Bioactivity in vitro screening of a selection of compounds (antioxidant and anti-inflammatory)

RESULTS

- Optimized animal model for evaporative dry eye
- In vivo proof of concept and selection of preclinical candidates









Planned secondments

ACADEMIC (UHC, University Hospital of Cologne): M9-M11

 Study desiccating stress dry eye mouse model and compare with UA2 rat models

INDUSTRIAL (BET): M24-M26

• Bioactivity screening of compounds (anti-inflammatory and anti-oxidant activity) with chemical and cell-based assays







IT-DED3

Antwerp Doctoral School

A. Research skills and techniques

- Access : basis
- Excel: Data-analyses, Simulations and Statistic functions
- Excel: Database Management and PivotTables
- Excel: intermediate tips and tricks
- E-sources for the exact sciences
- E-sources for the (bio)medical sciences
- E-sources for the social sciences and humanities
- E-sources for Law

B. Adapting to research environment

C. Research management

- Word Long documents
- Project management

D. Personal effectiveness

- · Achieving your goals and performing more successfully in your PhD
- Personal Effectiveness

E. Communication skills

- Applied Communication Skills
- Writing Academic Papers in English
- Giving Presentations in English
- Communicating Effectively in an Academic Context
- PowerPoint
- Effective written documents
- Analytic Storytelling (NEW!)

Individual writing coaching (Linguapolis)

F. Networking and teamworking

Leadership and teamwork

G. Career management

- Dive Into Business
- Grow your future career (NEW!)









Thanks for your attention Dank u wel



