

**BELGISCH GENOOTSCHAP VOOR FUNDAMENTELE
EN KLINISCHE FYSIOLOGIE EN FARMACOLOGIE
(v.z.w.d.)**

**SOCIETE BELGE DE PHYSIOLOGIE ET DE
PHARMACOLOGIE FONDAMENTALES ET CLINIQUES
(a.s.b.l.)**

**Vergadering van zaterdag 21 april 2007
Réunion du samedi 21 avril 2007**

**UNIVERSITEIT ANTWERPEN
Campus Drie Eiken
Promotiezaal Aula – gebouw Q
Universiteitsplein 1
2610 WILRIJK ANTWERPEN**

09.30 Onthaal - Accueil

Verslag - Rapport

- 10.00-10.45 Prof. Dr. P.G.A. Volders (Dept. Cardiology – Maastricht NL.)
Cardiac ventricular repolarization and arrhythmogenesis:
Lessons from a novel model of drug-induced long-QT1 syndrome.

Mededelingen - Communications

- 10.45-11.00 J. SAENEN, A. RAES, C. VRINTS, D. SNYDERS (UAntwerpen).
Multi-level study of the pathogenetic mechanisms underlying the long
QT syndrome.
- 11.00-11.15 P. KOLH¹, S. ROLIN², V. TCHANA-SATO¹, A. GHUYSEN¹,
B. LAMBERMONT¹, V. D'ORIO¹, R. LIMET¹, B. PIROTTE¹,
JM DOGNE² (¹ULiège, ² Univ.Namur).
Comparative effects on LV performance, arterial hemodynamics and
ventriculo-arterial coupling of two porcine models of coronary artery
occlusion.
- 11.15-11.30 I. VANDECAETSBECK, P. VANGHELUWE, L. DODE,
L. RAEYMAEKERS, F. WUYTACK (KULeuven).
The SERCA^{2b} Ca²⁺-transport ATPase: a tale of a tail.

- 11.30-11.45 P. FRANSEN, P. VANGHELUWE, T. VAN ASSCHE, P-J. GUNS, L. RAEYMAEKERS, H. BULT, F. WUYTACK (UAntwerpen).
Role of SERCA^{2a} in endothelial and smooth muscle cells of mouse aorta.
- 11.45-12.00 V. SHLYONSKY, A. GOOLAERTS, F. MIES, R. NAEIJE (ULBruxelles).
Registration of ion currents in rat type II pneumocytes *in situ*.
- 12.00-12.15 P-J GUNS, J. HENDRICKX, T. VAN DE PARRE, T. VAN ASSCHE, P. FRANSEN, H. BULT (UAntwerpen).
P2Y₆ receptors in the aorta of apolipoproteinE deficient-mice: implications for atherogenesis.
- 12.15-12.25 **Bullet session**
Mondelinge voorstelling van de posters 1 t/m 2
Présentation orale des posters 1 à 2
- 12.30 **Lunch**
Bezoek aan de posters / Visite aux posters

Mededelingen - Communications

- 13.45-14.00 B. BOSIER, E. HERMANS, D.M. LAMBERT (UCLouvain).
Modulation of tyrosine hydroxylase expression by cannabinoid ligands in neuroblastoma cells.
- 14.00-14.15 D. PRODANOV, J. MARIN, J. DELBEKE (UCLouvain).
Acute electrochemical marking of rat sciatic nerves.
- 14.15-14.30 A. VAN DYCKE, R. RAEDT, K. VONCK, W. WADMAN, P. BOON (UGent).
Transplantation of neural progenitor cells in a sclerotic hippocampus give long term survival and differentiate mainly towards astrocytes.
- 14.30-14.45 D. ENGEL (ULg & Univ. Freiburg Germany) (presented by V. SEUTIN, ULiège).
Presynaptic action potential amplification by voltage-gated Na⁺ channels in hippocampal mossy fiber boutons.
- 14.45-15.00 J.F. ARGACHA, O. XHAËT, M. GUJIC, D. ADAMOPOULOS, S. BELOKA, C. DREYFUSS, J.P. DEGAUTE, P. VAN DE BORNE (presented by J. FONTAINE, ULBruxelles).
Nicotine increases chemoreflex sensitivity to hypoxia in non smokers.

15.00-15.15 E. CARRETTE, A. VAN DYCKE, I. DEWAELE, K. VONCK, V. DE HERDT, L. GOOSSENS, D. VAN ROOST, P. BOON (UGent). Invasive video-EEG monitoring, the experience at Ghent University Hospital.

15.15-15.30 N. RUYSSERS¹, B. DE WINTER¹, J. DE MAN¹, A. LOUKAS², R. VAN DEN BOSSCHE³, A. HERMAN³, P. PELCKMANS¹, T. MOREELS¹ (¹ Gastroenterology & ³ Pharmacology UAntwerpen, ² Queensland Institute Med. Research – Brisbane Australia). Treatment with helminth antigens has a beneficial effect on experimentally induced colitis in mice.

15.30-16.30

Posters

Afmetingen / Dimensions
hoogte/hauteur 120 cm – breedte/largeur 120 cm

1. J. MARIN¹, T. COSTECALDE, G. DE LANNOY¹, J. DELBEKE¹ (¹UCLouvain). Recording and stimulation contacts combined in a single spiral cuff electrode for use in rats.
2. S. BARON, S. STRUYF, J. VANOEVELEN, J. VAN DAMME, F. WUYTACK, L. RAEYMAEKERS (KULeuven). Role of SERCA-independent intracellular Ca²⁺ stores in generating Ca²⁺ signals in neutrophil granulocytes.
3. L. RAEYMAEKERS, E. LARIVIERE, F. WUYTACK (KULeuven). Fast, reversible, Ca²⁺-independent vesicularisation of the endoplasmic reticulum.
4. M. CHENTOUF^{1,2}, J.L. BISTER¹, B. BOULANOUAR², N. KIRSCHVINK¹ (¹Univ.Namur & ²INRA Tanger-Maroc). Nutrition and reproduction in North Moroccan local goats: effect of puberty.
5. M. CHENTOUF^{1,2}, J.L. BISTER¹, B. BOULANOUAR², N. KIRSCHVINK¹ (¹Univ.Namur & ²INRA Tanger-Maroc). Nutrition and reproduction in North Moroccan local goats: effect on breeding season.
6. N. HAMIDALLAH¹, B. BOULANOUAR², N. KIRSCHVINK³, J.L. BISTER³ (¹Univ. Hassan I Settat Morocco, ² INRA Rabat, Morocco, ³ Univ.Namur). FSH secretion and relationship with GH and leptin at the time of puberty in Sardi ewe lambs.

7. D-S. WANG¹, R. BUCKINX², H. LECORRONC¹, J-M MANGIN², J-M RIGO³, P. LEGENDRE¹ (¹ UMR CNRS Paris, ² Children's Nat. Med. Center Washington DC USA, ³ Univ. Hasselt).
Mechanisms for picrotoxinin and picrotin blocks of alpha₂ homomeric glycine receptors.
8. P-J. GUNS, T. VAN ASSCHE, W. VERRETH, P. FRANSEN, B. MACKNESS, M. MACKNESS, P. HOLVOET, H. BULT (UAntwerpen).
Effect of gene transfer of paraoxonase-1 on endothelial cell function of atherosclerotic apolipoproteinE deficient-mice.
9. T. VAN DE PARRE, P-J. GUNS, P. FRANSEN, W. MARTINET, H. BULT, A. HERMAN, G. DE MEYER (UAntwerpen).
Amyloid precursor protein deficiency attenuates the progression of atherosclerosis in mice.
10. H. DE SCHEPPER¹, B. DE WINTER¹, P. PELCKMANS¹, A. HERMAN², J. DE MAN¹ (¹ Gastroenterology & ² Pharmacology UAntwerpen).
TNBS-induced colitis sensitizes *in vivo* pelvic afferent nerve responses to colorectal distension in rats.
11. E. BOCKSTEINS, N. OTTSCHYTSCH, A. RAES, D. SNYDERS (UAntwerpen).
Do the silent Kv channels Kv6.3, Kv10.1 and Kv11.1 form heterotetrameric channels with Kv3.1 or Kv5.1 ?
12. D. VAN HOORICK, A. RAES, D. SNYDERS (UAntwerpen).
Autonomous interaction of the auxiliary subunits Kvb and KChIP.
13. T. WYCKHUYS, T. DE SMEDT, R. RAEDT, L. WATERSCHOOT, K. VONCK, W. WADMAN, P. BOON (UGent).
Evaluation of two different deep brain stimulation modalities in kindled rats.
14. L. WATERSCHOOT, R. RAEDT, T. DE SMEDT, T. WYCKHUYS, V. DE HERDT, A. VAN DYCKE, J. DELBEKE, K. VONCK, W. WADMAN, P. BOON (UGent),
Vagus nerve compound action potentials (CAPs) verify vagus nerve stimulation (VNS) in rats.
15. C. D'HONDT¹, R. PONSARTS¹, S.P. SRINIVAS², J. VEREECKE¹, B. HIMPENS¹ (¹KULeuven, ²Indiana Univ. Bloomington USA).
Changes in cell size and morphology of bovine corneal endothelial cells with time in culture.

16. R. PONSAERTS¹, C. D'HONDT¹, S.P. SRINIVAS², J. VEREECKE¹, B. HIMPENS¹
(¹KULeuven, ²Indiana Univ. Bloomington USA).
Effects of thrombin and adenosine on MLC phosphorylation in bovine corneal endothelial cells studied by confocal immunofluorescence microscopy.
17. R. PONSAERTS¹, C. D'HONDT¹, S.P. SRINIVAS², J. VEREECKE¹, B. HIMPENS¹
(¹KULeuven, ²Indiana Univ. Bloomington USA).
Thrombin inhibits intercellular communication in bovine corneal endothelial cells via myosin II mediated contraction.
18. R. MACKIANSKIENE, A. GWANYANYA, K. SIPIDO, J. VEREECKE, K. MUBAGWA
(KULeuven).
Modulation of the cardiac TRPM7-like channel by G proteins coupled to phospho-
inositide metabolism.
19. S. NIMMEGEERS, J. VAN DE VOORDE (UGent).
Characterization of the effect of histamine in mice corpus cavernosum.
20. C. MABILDE (presented by J. VAN DE VOORDE, UGent).
Mechanical model for demonstration of cardiac ventricular depolarization/
repolarization cycle. (demonstration)

Coffee - Tea