

**BELGIAN SOCIETY OF FUNDAMENTAL AND CLINICAL
PHYSIOLOGY AND PHARMACOLOGY**

**Autumn Meeting
Friday October 26 2012**

**Palace of the Academies
Rue Ducale / Hertogsstraat 1
1000 Brussels**

Main Lecture

09.45-10.45 Prof. Dr. Maarten KOLE (Netherlands Institute of Neuroscience – Amsterdam, The Netherlands)

Origins of the action potential in myelinated axons.

Oral Communications

10.45-11.00 S. KOULCHITSKY, T. BEEKEN, J. DETHIE, E. BULLINGER, V. SEUTIN (ULiège).
Combined injection of quinpirole and cocaine induces a stereotypic-like behavior and changes in LFP power within the ventral tegmental area of rats.

11.00-11.15 Y.A. ALPIZAR, L. VAN GERVEN, W. EVERAERTS, B. BOONEN, A. MENINGOZ, F. VERMEULEN, D. DE RIDDER, P. HELLINGS, T. VOETS, K. TALAVERA (KULeuven).
Anesthetic effect of the trpa1 specific agonist cinnamaldehyde.

11.15-11.30 K. VERMOESEN, A. MASSIE, I. SMOLDERS, R. CLINCKERS (VUBrussel).
The antidepressants citalopram and reboxetine reduce seizure frequency in chronic epileptic rats.

11.30-11.45 L. ROTH, D. VAN DAM, C. VAN DER DONCKT, D.M. SCHRIJVERS, G. VANHOUTTE, M. VERHOYE, A. VAN DER LINDEN, W. MARTINET, H. BULT, G.R.Y. DE MEYER (UAntwerpen).
Motor coordination in a new mouse model of atherosclerotic plaque rupture.

- 11.45-12.00 C. MICHIELS, P. FRANSEN, D.M. SCHRIJVERS, H. BULT, G.R.Y. DE MEYER, W. MARTINET (UAntwerpen).
Effect of autophagy deficiency in vascular smooth muscle cells and cardiomyocytes on cardiovascular health.
- 12.00-12.15 M. DOGNÉ (supported by B. FLAMION) (FUNDPNamur).
Hyal-1 deficiency protects against endothelial dysfunction in diabetic mice.
- 12.15-12.30 B. COLSOUL, G. JACOBS, K. PHILLIPAERT, G. OWSIANIK, A. SEGAL, F. SCHUIT, R. VENNEKENS (KULeuven).
Gene regulation of *Trpm5* in animal models of type 2 diabetes.

12.30-14.30 **Lunch - Guided Poster Session – General Assembly**

Posters (height 120 cm – width 100 cm)

1. L. MOLLET, R. RAEDT, J. DELBEKE, R. EL TAHRY, V. DE HERDT, A. MEURS, W. WADMAN, K. VONCK, P. BOON (UGent, UCLouvain, Univ. Amsterdam The Netherlands).
Electrophysiological responses to vagus nerve stimulation in rats.
2. A. EL ARFANI, B. AMPE, Y. MICHOTTE, I. SMOLDERS (VUBrussel).
Effect of MK801 on the dopamine and glutamate release in the subthalamic nucleus of intact and hemi-parkinson rats.
3. E. BENTEA, J. VAN LIEFFERINGE, E. MERCKX, Y. MICHOTTE, I. SMOLDERS, A. MASSIE (VUBrussel).
Development and characterization of the nigral lactacystin mouse model of Parkinson's disease.
4. V. PENNEMANS, J-M. RIGO, C. FAES, J. PENDERS, Q. SWENNEN (Univ. Limburg Diepenbeek, Ziekenhuis Oost-Limburg Genk).
Establishment of age and gender dependent reference values for novel urinary biomarkers for renal damage in the healthy population.
5. L. GIORDANO, A. POZDZIK, V. COLOMBARO, TH. BAUDOUX, V. VOISIN, E. DEPRez, M.H. ANTOINE, S. LEDBETTER, J. NORTIER, N. CARON (FUNDPNamur).
Therapeutic potential of anti-TGF β antibody on acute tubulo-interstitial injury in aristolochic acid nephropathy.

6. V. COLOMBARO, V. VOISIN, L. GIORDANO, B. FLAMION, N. CARON (FUNDPNamur).
Analysis of renal phenotype of hyaluronidase 1 or hyaluronidase 2 knockout mice.
7. C. ONCLINX, B. FLAMION (FUNDPNamur).
Analysis of chronic haemolysis in Hyal2^{-/-} mice.
8. V. BOURGUIGNON (supported by B. FLAMION) (FUNDPNamur).
Lymph node alterations in Hyal2 deficient mice.
9. F. CLAINE, L. WIGGERS, B. MUYLKENS, N. KIRSCHVINK (FUNDPNamur).
Evaluation of colostral antibody protection in lambs born from ewes infected with Schmallenberg virus during pregnancy.
10. S. BALOL'EBWAMI, S. ZIGABE, E. BAHIZIRE, E. SHINDANO, R. CHIRIMWAMI, K. MUBAGWA (Univ. Bukavu DR Congo, KULeuven).
Body composition in malnourished children in Bukavu, DR Congo. Can electrical impedance be used for edema evaluation and monitoring?
11. H. AKL, R. LA ROVERE, I. VANDECAETSBECK, A. KAUSKOT, G. MONACO, T. LUYTEN, K. WELKENHUYZEN, L. MISSIAEN, M.F. HOYLAERTS, J.B. PARYS, H. DE SMEDT, G. BULTYNCK (KULeuven).
BH3 mimetic HA14-1, but not ABT-737, potentiates pro-apoptotic Ca²⁺ signaling in normal and transformed cells.
12. G. MONACO, R. PONSARTS, R. LA ROVERE, E. DECROCK, K. NUYTS, T. LUYTEN, K. WELKENHUYZEN, S. STRELKOV, L. LEYBAERT, W. DE BORGGRAEVE, H. DE SMEDT, J. B. PARYS, G. BULTYNCK (KULeuven, UGent, Univ. Chieti – Italy).
A dicodon mutation in the BH4 domain of Bcl-2 reveals new structural determinants involved in the inhibition of inositol 1,4,5-trisphosphate receptors (IP₃Rs).
13. B. ISTRATE, A. GWANYANYA, R. DRIESEN, V. BITO, K. MUBAGWA (KULeuven).
Non-homogenous distribution of TRPM7 in cardiac ventricular myocytes.
14. L. MONDIN, P. GAILLY (UCLouvain).
Osmosensation in TRPV2 dominant negative expressing cells.
15. B. BOUTIN, N. TAJEDDINE, P. GAILLY (UCLouvain).
Androgen deprivation modulates calcium homeostasis and induces autophagy in prostate cancer cells.
16. B. BOONEN, B. DENLINGER, Y.A. ALPIZAR, T. VOETS, V.M. MESEGUER, C. BELMONTE, K. TALAVERA (KULeuven).
Modulation of voltage-dependent sodium currents by the trpa1 agonist cinnamaldehyde.

17. Y.A. ALPIZAR, M. GEES, A. SANCHEZ, A. APETREI, T. VOETS, B. NILIUS, K. TALAVERA (KULeuven).
Bimodal action of cinnamaldehyde and camphor on mouse trpa1 channels.
18. I. VANDEWAUW, G. OWSIANIK, T. VOETS (KULeuven).
Expression analysis of TRP channel genes at single trigeminal and dorsal root ganglion levels in mouse.
19. C. D'HONDT, J.P. DECUYPERE, K. WELKENHUYZEN, B. HIMPENS, G. BULTYNCK (KULeuven).
Starvation-induced autophagy alters Connexin43 levels and reduces intercellular calcium wave propagation in corneal endothelial cells.
20. E. BOCKSTEINS, E. MAYEUR, G. REGNIER, A. VAN TILBORG, D.J. SNYDERS (UAntwerpen).
The obligatory heterotetramerization is determined by both N- and C-terminal interactions.

Oral Communications

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| 14.30-14.45 | A-S HERVENT, N. HAMDANI, V. MATHEEUSSEN, M. DEMOLDER, I. DE MEESTER, W. PAULUS, G. DE KEULENAER (UAntwerpen, VUAmsterdam, The Netherlands).
Effects of DPP-IV Inhibition on Left Ventricular Compliance in Mice with Type II Diabetes. |
| 14.45-15.00 | K. PHILIPPAERT, B. COLSOUL, A. SEGAL, T. VOETS, R. VENNEKENS (KULeuven).
Screening and characterization of pharmacological tools to target Ca ²⁺ activated non-selective cation channels. |
| 15.00-15.15 | N. TAJEDDINE, P. GAILLY (UCLouvain).
TRPC1 channel is a major regulator of EGFR signalling. |
| 15.15-15.30 | J.P. DECUYPERE, D. KINDT, L. MISSIAEN, H. DE SMEDT, J.B. PARYS, G. BULTYNCK (KULeuven).
Intracellular Ca ²⁺ signaling: a novel player in mTOR-dependent autophagy. |
| 15.30-15.45 | T. VERVLIET, E. DECROCK, Z. TOMASKOVA, G. MONACO, S. KIVILUOTO, L. MISSIAEN, K.N. NADIF, K. ONDRIAS, L. LEYBAERT, H. DE SMEDT, J.B. PARYS, G. BULTYNCK (KULeuven, UGent, Bratislava, Slovak Republic; Univ. Nijmegen, The Netherlands).
The ryanodine receptor is a novel target for Bcl-2. |

15.45-16.00

H. AKL, G. MONACO, R. LA ROVERE, K. DUBRON, A. KAUSKOT, K. WELKENHUYZEN, C. ERNEUX, L. MISSIAEN, J. MOLGÓ, C. DISTELHORST, M. BAES, M. HOYLAERTS, J.B. PARYS, H. DE SMEDT, G. BULTYNCK (KULeuven, ULBruxelles, CNRS Gif sur Yvette, France, Case Western Univ. Cleveland, USA).
Targeting IP₃R/Bcl-2 complexes in B-cell lymphomas: relevance of IP₃R2 upregulation and chronic IP₃ signaling

16.00-16.15

B. BABU, G. LECLERCQ, Q. REMIJSEN, R. MOTTERLINI, R.A. LEFEBVRE (UGent, VIB, INSERM U955 Univ. Paris Est, France).
Contribution of mitochondrial ROS to TNF- α -induced oxidative stress in murine intestinal epithelial MODE-K-cells.

Coffee - Tea