

Molecular and cellular aspects of PDT

Chair: P. Agostinis (Leuven, BEL)

Invited Lectures:

Molecular targets of photodynamic therapy and cell death pathways: traditional vs. novel linkages between them
N.L. Oleinick, L.-Y. Xue, S.-M. Chiu, K. Azizuddin, R.L. Morris, M. Lam, A.-L. Nieminen (Cleveland OH, USA)

Therapeutic exploitation of the tumor-protective mechanisms induced by the photodynamic therapy
J. Golab (Warsaw, POL)

Role of endoplasmic reticulum- Ca^{2+} emptying and multidomain pro-apoptotic BAX and BAK proteins in shaping cell death after photodynamic therapy
E. Buytaert, G. Callewaert, J.R. Vandenheede, P. Agostinis (Leuven, BEL)

Dissecting cellular and molecular events in PDT in combination with chemotherapy: additivity and synergy
A. Chiaviello, E. Crescenzi, G. Palumbo (Napoli, ITA)

Oral Presentations:

Decrease in adhesion of prostate cancer cells following subcurative photodynamic therapy
N Solban, I Georgakoudi, W. Rice, C Lin, T Hasan (Boston MA, USA)

Modulation of cellular Ca^{2+} signalling during PDT
G. Pfaffel-Schubart¹, D. Bragin², C. Scalfi-Happ¹, C. Hauser¹, A. Uzdensky², A. Rueck¹ (¹Ulm, GER; ²Rostov, RUS)

Photoeffects of zinc(II)-phthalocyanine on cell-substrate adhesion in mouse keratinocytes
S. Galaz, J. Espada, F. Sanz, J.C. Stockert, A. Villanueva, M. Cañete, M. Pacheco, V. Moreno, A. Blázquez, A. Juaranz (Madrid, ESP)

Photodynamic injury of isolated crayfish stretch receptor: death of glial cells and neuroglial interactions
A.B. Uzdensky, M.S. Kolosov, D.E. Bragin, A.V. Lobanov (Rostov, RUS)

Cell specific effects of polyunsaturated fatty acids on 5-aminolevulinic acid based photosensitization
O.A. Gederas¹, S.A. Schønberg¹, S. Ramstad¹, K Berg², A. Johnsson¹, H.E. Krokan¹ (¹Trondheim, NOR; ²Oslo, NOR)

Detecting apoptosis after PDT: PET imaging with Cu-64 labelled streptavidin following pretargeting of phosphatidylserine with biotinylated annexin-V
J.E. Van Lier, N. Cauchon, R. Lecomte, D. Hunting (Sherbrooke, CAN)

Intracellular trafficking of a photosensitizer immunoconjugate using quantum dots: a technique for selective photodynamic therapy
D.R. Errabelli, N. Szyncer-Taub, R. Peteranderl, S.K. Chang, B. Ortel, T. Hasan (Boston MA, USA)

Synthesis and in vitro testing of photosensitizer-peptide conjugates for use in photodynamic therapy
D.I. Vernon, I. Walker, S.B. Brown (Leeds, GBR)