

Publications for the period Apr 2011-Sep 2011

Donatello S, Hudson L, Cottell DC, Blanco A, Aurrekoetxea I, Shelly MJ, Dervan PA, Kell MR, Stokes M, Hill AD, Hopkins AM. An imbalance in progenitor cell populations reflects tumour progression in breast cancer primary culture models. *J Exp Clin Cancer Res.* 2011 Apr 26;30:45; PMID 21521500

Vangjeli C, Dicker P, Tregouet D-A, Shields D, Evans A, Stanton AV. A polymorphism in ACE2 is associated with a lower risk for fatal cardiovascular events in females: The MORGAM project. *J Renin Angiotensin Aldosterone Syst.* 2011 Apr 13. PMID: 21490025

Dolga AM, Terpolilli N, Kepura F, Nijholt IM, Knaus HG, D'Orsi B, Prehn JH, Eisel UL, Plant T, Plesnila N, Culmsee C. KCa₂ channels activation prevents [Ca²⁺]_i deregulation and reduces neuronal death following glutamate toxicity and cerebral ischemia. *Cell Death Dis.* 2011 Apr 21;2:e147.

Weisová P, Dávila D, Tuffy LP, Ward MW, Concannon CG, Prehn JH. Role of 5'-adenosine monophosphate-activated protein kinase in cell survival and death responses in neurons. *Biochim Biophys Acta.* 2011 Apr;1813(4):608-15.

Kögel D, Concannon CG, Müller T, König H, Bonner C, Poeschel S, Chang S, Egensperger R, Prehn JH. The APP intracellular domain (AICD) potentiates ER stress-induced apoptosis. *Neurobiol Aging.* 2011 Jul 29.

Antonio Fernandez, Ovidiu Ghita, Elena Gonzalez, Francesco Bianconi and Paul F. Whelan (2011); Evaluation of robustness against rotation of LBP, CCR and ILBP features in granite texture classification; *Machine Vision and Applications Volume 22, Issue 6 (2011); pp 913-926;*

Copperwhite Robert; Oubaha Mohamed; Moore John; et al. Sensing Performance of a Refractometric Optical Sensor Platform Based on Multimode Interference Couplers *IEEE SENSORS JOURNAL Volume: 11 Issue: 12 Pages: 3269-3275 2011*

McLoughlin D, McGuinness J, Byrne J, Terzo E, Huuskonen V, McAllister H, Black A, Kearney S, Kay E, Hill AD, Dietz HC, Redmond JM. (2011) Pravastatin Reduces Marfan Aortic Dilation *Circulation.* 2011;124:S168-S173

Thermosensitive Hydrogel for Prolonged Lentivirus Delivery in vitro S. McMahon, N. Nikolskaya, S. Ní Choileán, N. Hennessy, T. O'Brien, Y. Rochev. *J Gene Med.* 2011 Nov;13(11):591-601

Abeguerie-Egea Jessica; McEvoy Helen M.; McDonagh Colette. Synthesis, characterisation and functionalisation of luminescent silica nanoparticles: *JOURNAL OF NANOPARTICLE RESEARCH Volume: 13 Issue: 12 Pages: 6455-6465, 2011*

Mikkelsen Morten Bo; Marie Rodolphe; Hansen Jan H. Controlled deposition of sol-gel sensor material using hemiwicking: *Journal of Micromechanics and Microengineering Volume: 21 Issue: 11 Article Number: 115008, 2011*

Nash ME, Carroll WM, Nikolskaya N, Yang R, O'Connell C, Gorelov AV, Dockery P, Liptrot C, Lyng F, Garcia A, Rochev YA. Straightforward, One Step Fabrication of Ultra-Thin thermoresponsive

Films from Commercially Available pNIPAm for Cell Culture. *ACS Appl Mater Interfaces*. 2011 May 2. PubMed PMID: 21534571. 8.19

Bernas T, Starosolski R, Robinson JP, Rajwa B. Application of detector precision characteristics and histogram packing for compression of biological fluorescence micrographs. *Comput Methods Programs Biomed*. 2011 May 5.

Rea K, Roche M, Finn DP (2011). Modulation of conditioned fear, fear-conditioned analgesia, and brain regional c-Fos expression following administration of muscimol into the rat basolateral amygdala. *Journal of Pain*. Jun;12(6):712-21.

Schaeffer M, Hodson DJ, Lafont C, Mollard P. Endocrine cells and blood vessels work in tandem to generate hormone pulses. *J Mol Endocrinol*. 2011 Aug 25;47(2):R59-66

Whalley, GD Gamble, J Baker, J Chalmers, M Cooper, K Cruickshank, P Dixon, P Dunne, D Eccleston, G Jerums, R Luke, B McGrath, P Nolan, A Patel, N Poulter, P Phillips, R Scott, J Singh, R Smith, A Stanton, M Suranyi, S Thom, M Woodward). Effects of perindopril-indapamide on left ventricular diastolic function and mass in patients with type 2 diabetes: the ADVANCE Echocardiography Substudy. *J Hypertens*. 2011 Jul;29(7):1439-47

Egan K, Crowley D, Smyth P, O'Toole S, Spillane C, Martin C, Gallagher M, Canney A, Norris L, Conlon N, McEvoy L, Ffrench B, Stordal B, Keegan H, Finn S, McEneaney V, Laios A, Ducree J, Dunne E, Smith L, Berndt M, Sheils O, Kenny D, O'Leary J. Platelet adhesion and degranulation induce pro-survival and pro-angiogenic signalling in ovarian cancer cells. *PLoS One*. 2011;6(10):e26125.

Boutouyrie P, Lacolley P, Briet M, Regnault V, Stanton A, Laurent S, Mahmud A. Pharmacological modulation of arterial stiffness. *Drugs*. 2011 Sep 10;71(13):1689-701.

Kedziora KM, Prehn JH, Dobrucki J, Bernas T. Method of calibration of a fluorescence microscope for quantitative studies. *J Microsc*. 2011 Oct;244(1):101-11. Kedziora KM, Prehn JH, Dobrucki J, Bernas T. Method of calibration of a fluorescence microscope for quantitative studies. *J Microsc*. 2011 Oct;244(1):101-11.

Jimenez-Mateos EM, Bray I, McKiernan RC, Engel T, Mouri G, Tanaka K, Saugstad JA, Simon RP, Stallings RL, Henshall DC. MicroRNA expression profile after status epilepticus and hippocampal neuroprotection by targeting miR-132. *Am J Pathol* 179, 2519-2532 (2011)

Budry L, Lafont C, El Yandouzi T, Chauvet N, Conéjero G, Drouin J, Mollard P. Related pituitary cell lineages develop into interdigitated 3D cell networks. *Proc Natl Acad Sci U S A*. 2011 Jul 26;108(30):12515-20.

Roubille F, Franck-Miclo A, Covinhas A, Lafont C, Cransac F, Combes S, Vincent A, Fontanaud P, Sportouch-Dukhan C, Redt-Clouet C, Nargeot J, Piot C, Barrère-Lemaire S. Delayed postconditioning in the mouse heart in vivo. *Circulation*. 2011 Sep 20;124(12):1330-6

K Egan, D Crowley, P Smyth, S O'Toole, C Spillane, C Martin, M Gallagher, A Canney, L Norris, N Conlon, L McEvoy, B Ffrench, B Stordal, Keegan H, S Finn, V McEneaney, A Laios, J Ducree, E Dunne, L Smith, MC Berndt, O Sheils, D Kenny, JJ O'Leary. Platelet adhesion and degranulation

induce pro-survival and pro-angiogenic signalling in ovarian cancer cells. *PLOS ONE* 2011 6 (10): e26125

Roy S, Dixit CK, Woolley R, O'Kennedy R, McDonagh C. Label-free optical characterization methods for detecting amine silanization-driven gold nanoparticle self-assembly. *Langmuir*. 2011 Sep 6;27 (17):10421-8.

Alzamora R, O'Mahony F, Harvey BJ. Estrogen inhibits chloride secretion caused by cholera and Escherichia coli enterotoxins in female rat distal colon. *Steroids*. 2011 Aug;76(9):867-76.

Picardi G, Keyes TE, Forster RJ, Long C. Probing the Metal-to-Ligand Charge Transfer First Excited State in (η (6)-Naphthalene)Cr(CO)(3) and (η (6)-Phenanthrene)Cr(CO)(3) by Resonance Raman Spectroscopy and Density Functional Theory Calculations. *J Phys Chem A*. 2011 Oct 27;115 (42):11641-51

Dr. Maria Moccia, Dr. Francesco Fini, Michela Scagnetti, Prof. Mauro F. A. Adamo. Catalytic Enantioselective Addition of Sodium Bisulfite to Chalcones. *Angewandte Chemie International Edition*. Volume 50, Issue 30, pages 6893–6895, July 18, 2011

Bruschi S.; Moccia M.; Mauro M. F. A. (2011) Studies on the reactivity of 3-methyl-4-nitro-5-styrylisoxazoles with S-Nucleophiles; *Tetrahedron Lett.*, Volume 52, Issue 28, 13 July 2011, Pages 3602-3604

Laussmann MA, Passante E, Düssmann H, Rauen JA, Würstle ML, Delgado ME, Devocelle M, Prehn JH, Rehm M. Proteasome inhibition can induce an autophagy-dependent apical activation of caspase-8. *Cell Death Differ*. 2011 Oct;18(10):1584-97. doi: 10.1038/cdd.2011.27.

Foley NH, Bray I, Watters KM, Das S, Bryan K, Bernas T, Prehn JH, Stallings RL. MicroRNAs 10a and 10b are potent inducers of neuroblastoma cell differentiation through targeting of nuclear receptor corepressor 2. *Cell Death Differ*. 2011 Jul;18(7):1089-98. doi: 10.1038/cdd.2010.172.

Bonner C, Farrelly AM, Concannon CG, Dussmann H, Baquié M, Virard I, Wobser H, Kögel D, Wollheim CB, Rupnik M, Byrne MM, König HG, Prehn JH. Bone morphogenetic protein 3 controls insulin gene expression and is down-regulated in INS-1 cells inducibly expressing a hepatocyte nuclear factor 1A-maturity-onset diabetes of the young mutation. *J Biol Chem*. 2011 Jul 22;286(29):25719-28.