

The School of Pharmacy Journal and Newsletter

Nov-Dec 2013

Foreword

Welcome to our latest edition of the School of Pharmacy Journal, a collection of publications and press releases from November and December 2013. This has been another period of significant outputs across a broad spectrum of research areas.

Highlights include a paper published in Nature Chemistry by Cameron Alexander and colleagues showing bacteria clustering by polymers induces the expression of quorum-sensing-controlled phenotypes. This illustrates design principles and chemical strategies for controlling bacterial behaviour at the population level. From medicinal chemistry Peter Fischer's group published a paper in Bioorganic & Medicinal Chemistry describing 5-Deazaflavin derivatives as inhibitors of p53 ubiquitination by HDM2. These structure activity relationship results, in combination with a HDM2 RING domain receptor recognition model forms the basis for the design of drug-like and potent activators of p53 for potential cancer therapy. Research from the area of gene regulation and David Heery's group is published in Nucleic Acids Research where novel sequence motifs discovered for the developmental co-repressor BCL11A that facilitate its selective interactions that shed light on nuclear receptor cofactor complex formation. Research from Rachel Elliot's group in the journal Trials describes a protocol for the new medicine service study: a randomized controlled trial and economic evaluation with qualitative appraisal comparing the effectiveness and cost effectiveness of the New Medicine Service in community pharmacies in England.

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Mannan binding lectin-associated serine protease 1 is induced by hepatitis C virus infection and activates human hepatic stellate cells

A. Saeed, K. Baloch, R. J. P. Brown, R. Wallis, L. Chen, L. Dexter, C. P. McClure,

K. Shakesheff and B. J. Thomson

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Crude Ethanol Extract of Pithecellobium ellipticum as a Potential Lipid-Lowering Treatment for Hypercholesterolaemia

Janet P.-C. Wong, Sumi Wijaya, Kang-Nee Ting, Christophe Wiart, Kamarul'Ain Mustafa, Fiona Shipton, and Teng-Jin Khoo

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Synthesis, structureactivity relationship and biological evaluation of 2,4,5-trisubstituted pyrimidine CDK inhibitors as potential anti-tumour agents

Hao Shao, Shenhua Shi, David W. Foley, Frankie Lam, Abdullah Y. Abbas, Xiangrui Liu, Shiliang Huang, Xiangrui Jiang, Nadiah Baharin, Peter M. Fischer, Shudong Wang

European Journal of Medicinal Chemistry 70 (2013) 447-455

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Vladimir V. Korolkov, Stephanie Allen, Clive J. Roberts and Saul J. B. Tendler

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An exploratory investigation amongst Australian mothers regarding pharmacies and opportunities for nutrition promotion

J. H. Maher, R. Hughes, C. Anderson and J. B. Lowe

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A P2₁2₁2₁ polymorph of (+)-clusianone

Sree Vaneesa Nagalingam, Janet Wong Pik Ching, Mohammed Khaled bin

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The Identification of Seniors at Risk (ISAR) score to predict clinical outcomes and health service costs in older people discharged from UK acute

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Judi Edmans, Lucy Bradshaw, John R. F. Gladman, Matthew Franklin, Vladislav Berdunov, Rachel Elliott, Simon P. Conroy

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The predictive properties of frailty-rating scales in the acute medical unit

Franklin Wou, John R. F. Gladman, Lucy Bradshaw, Matthew Franklin, Judi Edmans, Simon Paul Conroy

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Bioinorganic Chemistry and Applications (2013) Article ID 362513

DOI: 10.1155/2013/362513

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5-Deazaflavin derivatives as inhibitors of p53 ubiquitination by HDM2

Michael P. Dickens, Patricia Roxburgh, Andreas Hock, Mokdad Mezna, Barrie Kellam,

Karen H. Vousden, Peter M. Fischer

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Correlating Physicochemical Properties of Boronic Acid-Chitosan Conjugates to Glucose Adsorption Sensitivity

Yaa Asantewaa, Jonathan Aylott, Jonathan C. Burley, Nashiru Billa and Clive J. Roberts

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Paramagnetic, Near-Infrared Fluorescent Mn-Doped PbS Colloidal Nanocrystals

Lyudmila Turyanska, Fabrizio Moro, Andrew N. Knott, Michael W. Fay, Tracey D. Bradshaw, and Amalia Patanè

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DOI: 10.1002/ppsc.201300184

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Patient experiences of taking antidepressants for depression: A secondary qualitative analysis

Claire Anderson and Tapash Roy

Research in Social and Administrative Pharmacy 9 (2013) 884–902

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Understanding the patient perspective of the English community pharmacy Medicines Use Review (MUR)

Asam Latif, Helen F. Boardman, Kristian Pollock

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Protocol for the New Medicine Service Study: a randomized controlled trial and economic evaluation with qualitative appraisal comparing the effectiveness and cost effectiveness of the New Medicine Service in community pharmacies in England

Matthew Boyd, Justin Waring, Nick Barber, Rajnikant Mehta, Antony Chuter, Anthony J Avery, Nde-Eshimuni Salema, James Davies, Asam Latif, Lukasz Tanajewski and Rachel A Elliott

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Heterogeneity and complexity within the nuclease module of the Ccr4-Not complex

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Dissolution methodology for taste masked oral dosage forms

Sally Gittings, Neil Turnbull, Clive J. Roberts, Pavel Gershkovich

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The study of interactions between DNA and PcrA DNA helicase by using targeted molecular dynamic simulations

Hao Wang, Jiajia Cui, Wei Hong, Ian C. Paterson and Charles A Laughton

J Mol Model (2013) 19:4997–5006

DOI: 10.1007/s00894-013-2008-4

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Maximising the secondary beneficial effects of larval debridement therapy

D I Pritchard and Y Nigam

Journal of Wound Care 22 (2013) 610–616

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Post-processing of polymer foam tissue scaffolds with high power ultrasound: A route to increased pore interconnectivity, pore size and fluid transport

N.J. Watson, R.K. Johal, Z. Glover, Y. Reinwald, L.J. White, A.M. Ghaemmaghami, S.P. Morgan, F.R.A.J. Rose, M.J.W. Povey, N.G. Parker

Materials Science and Engineering C 33 (2013) 4825–4832

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A signature motif mediating selective interactions of BCL11A with the NR2E/F subfamily of orphan nuclear receptors

Chun Ming Chan, Joel Fulton, Cristina Montiel-Duarte, Hilary M. Collins, Neetu Bharti, Frances R. Wadelin, Paula M. Moran, Nigel P. Mongan and David M. Heery

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Bacteria clustering by polymers induces the expression of quorum-sensing-controlled phenotypes

Leong T. Lui, Xuan Xue, Cheng Sui, Alan Brown, David I. Pritchard, Nigel Halliday, Klaus Winzer, Steven M. Howdle, Francisco Fernandez-Trillo, Natalio Krasnogor and Cameron Alexander

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Lipid Effects on Expulsion Rate of Amphotericin B from Solid Lipid Nanoparticles

See Wei Tan and Nashiru Billa

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DOI: 10.1208/s12249-013-0056-9

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Press Releases

- Joy Wingfield receives a Royal Pharmaceutical Society Award
- Changing the conversation – polymers disrupt bacterial communication
- Biomaterial-delivered chemotherapy could provide final blow to brain tumours
- Postgraduate student wins second prize in AVS art competition
- PhD student wins EPSRC Doctoral Prize
- Antidepressants are not 'happy pills'
- Developing the scientists and engineers of the future
- State of the art AFM arrives at the LBSA
- Dragons' Den organised by Industrial Pharmacy Network & CDT in Targeted Therapeutics and Formulation Science
- Retired Pharmacists visit the School of Pharmacy
- What's the debate on regenerative medicine?

- Pharmacy students graduate from the Tor Vegata School of Pharmacy in Rome
- Professors Kevin Shakesheff and Clive Roberts attended the graduation of Pharmacy students in Rome
- 3D nanoSIMS project announced
- The School of Pharmacy chosen as pilot site for the RPS's student champions programme

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