

**POSTER SESSION 3  
TUESDAY 9 SEPTEMBER**

**Analytical chemistry**

120. The effect of milling-process parameters on granule and tablet properties

G. Hackett, B. Gururajan, D. Brooks and J. Kraunsoe

121. High-performance liquid chromatography method validation for the quantification of tobramycin in urine samples after inhalation using precolumn derivatization with fluorescent 9-fluorenylmethylchloroformate

M. Mashat, B.J. Clark, H. Chystyn and K.H. Assi

122. Evaluation of nuclear quadrupole resonance for use in pharmaceutical analysis

S.A.C. Wren, E. Tate, J.A.S. Smith and A. Jakobsson

123. Novel thermal probe techniques for the physico-chemical characterization of interactions between biological systems

Z.Y. Dragnevska, D.Q.M. Craig and M. Reading

124. Physical and chemical stability of paclitaxel infusions for the application of a dose-banding strategy

J. Xu and G. Sewell

125. Stability of 500 mg/50 mL and 250 mg/50 mL vancomycin B in CIVAS batch-manufactured pre-filled syringes

S. Polli, P. Tunstell, J. Petit, O. Rabui and B. Forbes

**Chemistry**

126. Quantitative structure–activity relationship analysis of local anaesthetic activity of a series of 3-aminobenzo[d]isothiazole derivatives

J.C. Dearden, M. Hewitt, H. Modarresi, A. Geronikaki, P. Vicini, N. Dabarakis, V. Poroikov, A. Lagunin and G. Theophilidis

127. A quantitative structure–toxicity relationship study of benzodiazepine drugs

T. Suzuki, S. Funar-Timofei and D. Ionescu

128. Redox-activated fluorophores

S. Passmore, S. Freeman, E. Bichenkova N. Rattray and M. Jaffar

129. Novel phenylamine-based compounds as potential inhibitors of the enzyme complex 17b-hydroxylase/17,20-lyase (P45017.)

M. Akbarzadeh, P. Acharya, C.P. Owen and S. Ahmed

130. Synthesis and biological evaluation of a series of thiosemicarbazone-based compounds as potential inhibitors of oestrone sulphatase

H. Bordbar, T. Cartledge, C.P. Owen and S. Ahmed

131. Use of the transition-state of the reaction catalysed by 5 $\alpha$ -reductase (5AR) in the modelling of known inhibitors of 5AR: an insight into the conformational space for the side chains of steroidal inhibitors of 5AR

O. Hassan, C.P. Owen and S. Ahmed

132. Novel inhibitors of oestrone sulphatase based on the derivatives of 4-aminophenol

A. Whaeed, T. Cartledge, C.P. Owen and S. Ahmed

133. Novel inhibitors of the enzyme complex 17 $\alpha$ -hydroxylase (17 $\alpha$ -OHase) and 17,20-lyase based on a phenyl acyl azole backbone

W.Y. Lee, I. Shahid, C.P. Owen and S. Ahmed

### **Drug delivery**

134. Development of oral sustained-release formulation of isoniazid/alginate/chitosan-blend microspheres for intestinal delivery

A. Samad, Y. Sultana, R.K. Khar, M. Aqil and A. K. Misha

135. Development of a model membrane representing skin with different water contents for investigation of drug release from polymeric microneedles

K.E. Migalska, A.D. Woolfson, P.A. McCarron, D. Morrow, R. Thakur and R.F. Donnelly

136. IPSE, a glycoprotein released from *Schistosoma mansoni* eggs as a novel gene-delivery vector

I. Kaur, S. Stolnik, K. Kindle, D. Heery, G. Schamm, H. Haas and F. Falcone

137. Correlation between in vitro and in vivo release rates of the antiretroviral candidate, dapivirine, from silicone elastomer vaginal rings

C.F. McCoy, R.K. Malcolm, A.D. Woolfson, J. Romano, A. Nel, S. Smythe, K. Young and Z. Rosenberg

138. Effect of environmental conditions on the crystallization patterns and in vitro release of ibuprofen from drug-in-adhesive acrylic layers

K. Dodou, N. Martin and Z. Ali

139. Formulation and evaluation of novel dosage forms of cysteamine for the potential treatment of cystinosis

B.E. Buchan, G. Kay, K.H. Matthews and D. Cairns

140. Exploring the nature of chitosan–mucin interactions

I.A. Sogias, A.C. Williams and V.V. Khutoryanskiy

141. Gas-filled microbubbles: development and optimization as ultrasound contrast agents

R. Kaur, R. Morris, G. Cave, M. Bencsik, M.P. Krafft, G. Waton, T. Rades and Y. Perrie

142. Investigation of fluorescent derivatives as potential probes for novel transglutaminase inhibitors

N. Daneshpour, R. Collighan, Y. Perrie, D. Telci, A. Mongeot, D. Rathbone and M. Griffin

143. Effect of propylene glycol on in vitro membrane transport of ionized diclofenac diethylamine from saturated binary cosolvent mixtures

F. Benaouda, G.P. Martin, S.A. Jones and M.B. Brown

144. Interaction of tea tree oil and its constituents with over-the-counter topical medicines

C. Martin, J. O'Neill and K. Chan

145. Controlled-release formulation of tea tree oil and its constituents

C. Martin, U. Bhujbal and M.A. Kenward

### **Material science**

146. An investigation into the thermal behaviour of different grades of hydroxypropyl methylcellulose for the preparation of amorphous dispersions by spray-drying

M. Zhao, C. McGregor, S.A. Barker and D.Q.M. Craig

147. The stability of biodegradable polyesters and polyester-co-lactones utilized for drug delivery

A. Iftikhar, E. Gaskell, G.A. Hutcheon and C. Rostron

148. The study of the effect of photodegradation products on the phase transitions in crystalline and amorphous nifedipine using differential scanning calorimetry

R. Patil and M. Antonijevic

### **Pharmaceutical technology**

149. Improvement of dissolution profile of gliclazide through co-inclusion in urea

S. Thakral and A.K. Madan

150. Development and characterization of carvedilol-loaded solid lipid nanoparticles

Md.S. Faisal, S. Baboota, J. Ali and A. Ahuja

151. The effects of drug solubility parameter and concentration on the rheological properties and adhesive performance of drug-in-adhesive transdermal patches

I. Irsan, K. Dodou, A. Wheatley and H.M. Wolff

152. Novel application of hydrotropic solubilization to formulate syrup (liquid oral solution) of water-insoluble drug

R.K. Maheshwari, S.C. Chaturvedi and N.K. Jain

153. Application of fluidized hot-melt granulation as a novel granulation technique for processing poorly water-soluble active pharmaceutical ingredients

H. Zhai, G. Andrews, D. Jones and G. Walker

154. Characterization of wax granules containing paracetamol produced by a hot-melt spray system

G. Coombs, H.N.E. Stevens, B. Thorne and A. Mullen

155. Thermal investigation into the interaction of cetostearyl alcohol and a cetostearyl alcohol/sodium lauryl sulphate mixed emulsifier with liquid paraffin

J.J. Rouse, J.H.Kim, M.J. Lawrence and G.M. Eccleston

156. Osmotic effects on release from coated pellets: impact of substrate core composition

B. Carlin, S. Muschert, F. Siepmann, B. Leclercq and J. Siepmann

### **Pharmacognosy**

157. Health food and medicinal plant use of the Turkishspeaking Cypriot community in Greater London

A. Yoney, M. Heinrich and J.M. Prieto-Garcia

158. Anti-inflammatory and anti-oxidant activity of six *Cistus* species

S. Taila, B.L. Fiebich, T. Efferth, C. Beckwith, J. Prieto and M. Heinrich

159. Chemical identification of herbs between *Ligusticum chuanxiong* and *Angelica sinensis* by Fourier-transform infrared spectroscopy with cluster tree analysis

G. Lu, K. Chan, J. Wang, S. Sun and Z. Zhao

160. Actions of the indoloquinoline, cryptolepine, on intestinal muscle

J.R. McCurrie, S.M. Albalawi and C.W. Wright

161. Vascular relaxant effects of testosterone  
J.R. McCurrie and T. Varathalingam

**Tissue engineering**

162. Polymeric fibres for bone regeneration: effect of collagen on fibre morphology and human osteoblast cell proliferation  
S.E. McNeil, H.R. Griffiths and Y. Perrie