

## Relevant Publications from Scientific Founders

Phenoxy- and phenylamino-heterocyclic quinones: Synthesis and preliminary anti-pancreatic cancer activity. P. Sanchez, C. O. Salas, S. Gallardo-Fuentes, A. Villegas, N. Veloso, J. Honores, M. Inman, M. Isaacs, R. Contreras, **C. J. Moody**, J. Cisterna, I. Brito and R. A. Tapia, *Chem. Biodiversity* 2022, **19**, e202101036.

Cytotoxic and radiosensitising effects of a novel thioredoxin reductase inhibitor in brain cancers. A. Yao, S. J. Storr, M. Inman, L. Barwell, **C. J. Moody** and S. G. Martin, *Mol. Neurobiol.*, **2022**, *59*, 3546-3563.

Cytotoxic and radiosensitising effects of a novel thioredoxin reductase inhibitor in breast cancer. N. A. Abdullah, M. Inman, **C. J. Moody**, S. J. Storr, S. G. Martin, *Invest. New Drugs*, **2021**, *39*, 1232-1241.

Pharmacological characterisation of GSK3335103, an oral  $\alpha_v\beta_6$  integrin small molecule RGD-mimetic inhibitor for the treatment of fibrotic disease. A. L. Wilkinson, **A. E. John**, J. W. Barrett, E. Gower, V. S. Morrison, Y. Man, K. T. Pun, J. A. Roper, J. C. Lockett, L. A. Borthwick, B. S. Barksby, R. A. Burgoyne, R. Barnes, A. J. Fisher, P. A. Procopiou, R. J. D. Hatley, T. N. Barrett, R. P. Marshall, S. J. F. Macdonald, R. G. Jenkins, R. J. Slack, *Eur. J. Pharmacol.*, **2021**, *913*, 174618.

Late stage functionalization *via* Chan-Lam amination: rapid access to potent and selective integrin inhibitors. H. Robinson, S. A. Oatley, J. E. Rowedder, P. Slade, S. J. F. Macdonald, S. P. Argent, J. D. Hirst, **T. McNally** and **C. J. Moody**, *Chem. Eur. J.*, **2020**, *26*, 7678-7684.

Translational pharmacology of an inhaled small molecule  $\alpha_v\beta_6$  integrin inhibitor for idiopathic pulmonary fibrosis. **A. E. John**, R. H. Graves, K. T. Pun, G. Vitulli, E. J. Forty, P. F. Mercer, J. L. Morrell, J. W. Barrett, R. F. Rogers, M. Hafeji, L. I. Bibby, E. Gower, V. S. Morrison, Y. Man, J. A. Roper, J. C. Lockett, L. A. Borthwick, B. S. Barksby, R. A. Burgoyne, R. Barnes, J. Le, D. J. Flint, S. Pyne, A. Habgood, L. A. Organ, C. Joseph, R. C. Edwards-Pritchard, T. M. Maher, A. J. Fisher, N. S. Gudmann, D. J. Leeming, R. C. Chambers, P. T. Lukey, R. P. Marshall, S. J. F. Macdonald, R. G. Jenkins, R. J. Slack, *Nature Commun.*, **2020**, *11*, 4659.

Loss of ELK1 has differential effects on age-dependent organ fibrosis. J. T. Cairns, A. Habgood, R. C. Edwards-Pritchard, C. Joseph, **A. E. John**, C. Wilkinson, I. D. Stewart, J. Leslie, B. C. Blaxall, K. Susztak, S. Alberti, A. Nordheim, F. Oakley, G. Jenkins, A. L. Tatler, *Int. J. Biochem. Cell Biol.* **2020**, *120*, 105668.

Active Search for Computer-aided Drug Design. D. Oglic, S. A. Oatley, S. J. F. Macdonald, **T. McNally**, R. Garnett, J. D. Hirst, T. Gartner, *Mol. Inform.*, **2018**, *37*, 1700130.

Reduced Ets Domain-containing Protein Elk1 Promotes Pulmonary Fibrosis via Increased Integrin  $\alpha_v\beta_6$  Expression. A. L. Tatler, A. Habgood, J. Porte, **A. E. John**, A. Stavrou, E. Hodge, C. Kerama-Likoko, S. M. Violette, P. H. Weinreb, A. J. Knox, G. Laurent, H. Parfrey, P. J. Wolters, W. Wallace, S. Alberti, A. Nordheim, G. Jenkins, *J. Biol. Chem.* **2016**, *291*, 9540-9553

Amplification of TGF- $\beta$  Induced ITGB6 Gene Transcription May Promote Pulmonary Fibrosis. A. L. Tatler, A. T. Goodwin, O. Gbolahan, G. Saini, J. Porte, **A. E. John**, R. L. Clifford, S. M.

Violette, P. H. Weinreb, H. Parfrey, P. J. Wolters, J. Gauldie, M. Kolb, G. Jenkins, *Plos One* **2016**, *11*, e0158047.

Loss of epithelial G(q) and G(11) signaling inhibits TGF- $\beta$  production but promotes IL-33-mediated macrophage polarization and emphysema. **A. E. John**, M. R. Wilson, A. Habgood, J. Porte, A. L. Tatler, A. Stavrou, G. Miele, L. Jolly, A. J. Knox, M. Takata, S. Offermanns, R. G. Jenkins, *Science Signaling* **2016**, *9*, ra104.

Synthesis and intracellular redox cycling of natural quinones and their analogues and identification of indoleamine-2,3-dioxygenase (IDO) as potential target for anticancer activity. C. E. Blunt, C. Torcuk, Y. Liu, W. Lewis, D. Siegel, D. Ross and **C. J. Moody**, *Angew. Chem. Int. Ed.*, **2015**, *54*, 8740-8745.

Relative Binding Affinities of Integrin Antagonists by Equilibrium Dialysis and Liquid Chromatography-Mass Spectrometry. W. J. Tipping, N. Tshuma, J. Adams, H. T. Haywood, J. E. Rowedder, M. J. Fray, **T. McInally**, S. J. F. Macdonald, N. J. Oldham, *ACS Med. Chem. Lett.*, **2015**, *6*, 221-224.

Structure Activity Relationships of  $\alpha_v$  Integrin Antagonists for Pulmonary Fibrosis by Variation in Aryl Substituents. J. Adams, E. C. Anderson, E. E. Blackham, Y. W. R. Chiu, T. Clarke, N. Eccles, L. A. Gill, J. J. Haye, H. T. Haywood, C. R. Hoenig, M. Kausas, J. Le, H. L. Russell, C. Smedley, W. J. Tipping, T. Tongue, C. C. Wood, J. Yeung, J. E. Rowedder, M. J. Fray, **T. McInally**, S. J. F. Macdonald, *ACS Med. Chem. Lett.*, **2014**, *5*, 1207-1212.

Heat shock protein 90 controls HIV-1 reactivation from latency. I. Anderson, J. S. Low, S. Weston, M. Weinberger, A. Zhyvoloup, A. A. Labokha, G. Corazza, R. A. Kitson, **C. J. Moody**, A. Marcello and A. Fassati, *Proc. Nat. Acad. Sci. USA*, **2014**, E1528-E1537.

Synthesis of 19-substituted geldanamycins with altered conformations and their binding to heat shock protein Hsp90. R. R. A. Kitson, C.-H. Chang, R. Xiong, H. E. L. Williams, A. L. Davis, W. Lewis, D. L. Dehn, D. Siegel, S. M. Roe, C. Prodromou, D. Ross and **C. J. Moody**, *Nature Chem.*, **2013**, *5*, 307-314.

Preclinical SPECT/CT Imaging of  $\alpha_v\beta_6$  Integrins for Molecular Stratification of Idiopathic Pulmonary Fibrosis. **A. E. John**, J. C. Lockett, A. L. Tatler, R. O. Awais, A. Desai, A. Habgood, S. Ludbrook, A. D. Blanchard, A. C. Perkins, R. G. Jenkins, J. F. Marshall, *J. Nucl. Med.* **2013**, *54*, 2146-2152.

Antitumor indolequinones induced apoptosis in human pancreatic cancer cells via inhibition of thioredoxin reductase and activation of redox signaling. C. Yan, D. Siegel, J. Newsome, A. Chilloux, **C. J. Moody** and D. Ross, *Mol. Pharm.*, **2012**, *81*, 401-410.