

Sally Freeman, PhD, BSc, FRSC  
Academic (Teaching & Research) Reader  
Pharmacy

Lydia Becker Institute of Immunology and Inflammation

**Email:** Sally.Freeman@manchester.ac.uk

**Phone:** +44 (0) 161 275 2366



## Research output

### **Discovery of potent 4-aminoquinoline hydrazone inhibitors of NRH:quinoneoxidoreductase-2 (NQO2)**

Freeman, S., Stratford, I., Kadirvel, M. & Bryce, R., 2019, In : European Journal of Medicinal Chemistry.

DOI: 10.1016/j.ejmech.2019.111649

### **Radiosynthesis and reactivity of N-[11C]methyl carbamoylimidazole**

Kadirvel, M., Cardoso, D., Freeman, S. & Brown, G., Aug 2018, In : Journal of Radioanalytical and Nuclear Chemistry. 317, 2

DOI: 10.1007/s10967-018-5948-4

### **Synthesis and antibacterial activities of enamine derivatives of dehydroacetic acid**

Freeman, S. & Ledder, R., Mar 2018, In : Medicinal Chemistry Research. DOI10.1007/s00044-017-2110-8.

DOI: 10.1007/s00044-017-2110-8

### **Design, Synthesis and Evaluation of Novel Oxazaborine Inhibitors of the NLRP3 Inflammasome**

Baldwin, A., Tapia Olivares, V., Swanton, T., White, C., Beswick, J., Brough, D. & Freeman, S., 2018, In : ChemMedChem.

DOI: 10.1002/cmdc.201700731

### **Development of a characterised tool kit for the interrogation of NLRP3 inflammasome dependent responses**

Redondo Castro, E., Faust, D., Fox, S., Baldwin, A., Osborne, S., Haley, M., Karran, E., Nuthall, H., Atkinson, P. J., Dawson, L. A., Routledge, C., Allan, S., Freeman, S., Brownlees, J. & Brough, D., 2018, In : Scientific Reports.

DOI: 10.1038/s41598-018-24029-3

### **Evaluation of analogues of furan-amidines as inhibitors of NQO2**

Alnabulsi, S., Hussein, B., Santina, E., Alsalahat, I., Kadirvel, M., Magwaza, R. N., Bryce, R. A., Schwalbe, C. H., Baldwin, A. G., Russo, I., Stratford, I. J. & Freeman, S., 2018, In : Bioorganic & medicinal chemistry letters.

DOI: 10.1016/j.bmcl.2018.03.025

### **Is targeting the inflammasome a way forward for neuroscience drug discovery?**

Swanton, T., Cook, J., Beswick, J., Freeman, S., Lawrence, C. B. & Brough, D., 2018, In : SLAS Discovery.

DOI: 10.1177/2472555218786210

### **Boron based inhibitors of the NLRP3 inflammasome**

Baldwin, A., Rivers-Auty, J., Daniels, M., White, C., Schwalbe, C. H., Schilling, T., Hammadi, H., Jaiyong, P., Spencer, N. G., England, H., Luheshi, N. M., Kadirvel, M., Lawrence, C. B., Rothwell, N., Harte, M., Bryce, R., Allen, S., Eder, C., Freeman, S. & Brough, D., 16 Nov 2017, In : Cell Chemical Biology. 24, 11, p. 1321-1335 15 p.

DOI: 10.1016/j.chembiol.2017.08.011

### **In Vitro Evaluation of Third Generation PAMAM Dendrimer Conjugates**

Najlah, M., Freeman, S., Khoder, M., Attwood, D. & D'Emanuele, A., 4 Oct 2017, In : Molecules. 22, 10, 1661.

DOI: 10.3390/molecules22101661

### **Pentapeptides for the treatment of small cell lung cancer: Optimisation by N<sup>ind</sup>-alkyl modification of the tryptophan side chain**

Abusara, O., Freeman, S. & Aojula, H., 8 Sep 2017, In : European Journal of Medicinal Chemistry. 137, p. 221-232 12 p.

DOI: 10.1016/j.ejmech.2017.05.053

**N-tert-Prenylation of indole ring improves the cytotoxicity of a short antagonist G analogue against Small Cell Lung Cancer**  
Offerman, S., Kadirvel, M., Abusara, O., Bryant, J., Telfer, B., Brown, G., Freeman, S., White, A., Williams, K. & Aojula, H., 2017, In : *MedChemComm*.  
DOI: 10.1039/c6md00691d

**Fenamate NSAIDs inhibit the NLRP3 inflammasome and protect against Alzheimer's disease in rodent models**  
Daniels, M. J. D., Rivers-Auty, J., Schilling, T., Spencer, N. G., Watremez, W., Fasolino, V., Booth, S. J., White, C. S., Baldwin, A. G., Freeman, S., Wong, R., Latta, C., Yu, S., Jackson, J., Fischer, N., Koziel, V., Pillot, T., Bagnall, J., Allan, S. M., Paszek, P. & 5 others Galea, J., Harte, M. K., Eder, C., Lawrence, C. B. & Brough, D., 11 Aug 2016, In : *Nature Communications*. 7, p. 12504 12504.  
DOI: 10.1038/ncomms12504

**Non-symmetrical furan-amidines as novel leads for the treatment of cancer and malaria**  
Alnabulsi, S., Santina, E., Russo, I., Hussein, B., Kadirvel, M., Chadwick, A., Bichenkova, E., Bryce, R., Nolan, K., Demonacos, C., Stratford, I. & Freeman, S., 23 Mar 2016, In : *European Journal of Medicinal Chemistry*. 111, p. 33-45 13 p.  
DOI: 10.1016/j.ejmech.2016.01.022

**Inhibiting the Inflammasome: A Chemical Perspective**  
Baldwin, A., Brough, D. & Freeman, S., 12 Oct 2015, In : *Journal of Medicinal Chemistry*. 59, 5, p. 1691-1710  
DOI: 10.1021/acs.jmedchem.5b01091

**Inhibition of quorum sensing and biofilm formation in *Vibrio harveyi* by 4-fluoro-DPD; A novel potent inhibitor of AI-2 signalling**  
Kadirvel, M., Fanimarvasti, F., Forbes, S., McBain, A., Gardiner, J. M., Brown, G. D. & Freeman, S., 21 May 2014, In : *Chemical Communications*. 50, 39, p. 5000-5002 2 p.  
DOI: 10.1039/c3cc49678c

**Integrated examinations: supporting students with team-based learning**  
Hall, J., Freeman, S., Parmar, H. & Pluen, A., 25 Jan 2014, In : *Pharmaceutical Journal*. 292, 90, p. 90-91 1 p.

**Detection of apoptosis by PET/CT with the diethyl ester of [18F]ML-10 and fluorescence imaging with a dansyl analogue**  
Kadirvel, M., Fairclough, M., Cawthorne, C., Rowling, E. J., Babur, M., McMahon, A., Birkket, P., Smigova, A., Freeman, S., Williams, K. J. & Brown, G., 1 Jan 2014, In : *Bioorganic and Medicinal Chemistry*. 22, 1, p. 341-349 8 p.  
DOI: 10.1016/j.bmc.2013.11.019

**Team Based Learning: Preparing pharmacy students for an integrated curriculum during induction**  
Hall, J., Freeman, S., Parmar, H. & Pluen, A., 2014, In : *Pharmacy Education (Print)*. 14, 1, p. 81-85 4 p.