

Publication list

Refereed papers

56. D. S. Hewings, T. P. C. Rooney, S. J. Conway. Emerging Epigenetic Therapies – Bromodomain ligands. In *Epigenetic Cancer Therapy*; S. Gray Ed.; Elsevier: Amsterdam, *in press*.
55. C-W. Wu, L. Kong, M. Bialecka-Fornal, S. Park, A. L. Thompson, G. Kulkarni, S. J. Conway, D. K. Newman. Purification and synthesis of hopanoids as standards for mass spectrometry. *Geobiology*, 2015, **13**, DOI: 10.1111/gbi.12132.
54. M. Brand, A. Measures, B. Wilson, W. A. Cortopassi, R. Alexander, M. Höss, T. P. C. Rooney, D. S. Hewings, R. Paton, S. J. Conway. Small molecule inhibitors of bromodomain-acetyl-lysine interactions. *ACS Chem. Biol.*, 2015, **10**, 22-39.
53. S. J. Conway, P. M. Woster, J.-K. Shen, G. Georg, S. Wang. Epigenetics: Novel therapeutics targeting epigenetics. *J. Med. Chem.*, 2015, **58**, 523-524.
52. M. Gregory, M-X. Yin, M. McConville, E. Williams, A. N. Bullock, S. J. Conway, A. B. Holmes. Synthesis of Highly Water Soluble Adamantyl Phosphoinositide Derivatives. *Aust. J. Chem.*, 2015, **68**, DOI: 10.1071/CH14543.
51. D. A. Hay, O. Fedorov, S. Martin, C. Wells, S. Picaud, M. Philpott, O. P. Moteiro, C. M. Rogers, S. J. Conway, T. P. C. Rooney, A. Tumber, C. Yapp, P. Filippakopoulos, M. E. Bunnage, S. Müller, S. Knapp, C. J. Schofield, P. E. Brennan, Discovery and optimization of small molecule ligands for the CBP/p300 bromodomains. *J. Am. Chem. Soc.*, 2014, **136**, 9308-9319.
50. T. P. C. Rooney, P. Filippakopoulos, O. Fedorov, S. Picaud, D. A. Hay, S. Martin, A. Tumber, C. M. Rogers, M. Philpott, M. Wang, A. L. Thompson, T. D. Heightman, D. C. Pryde, A. Cook, R. S. Paton, S. Müller, S. Knapp, P. E. Brennan, S. J. Conway, A series of potent CREBBP bromodomain inhibitors reveals an induced fit pocket stabilized by a cation- π interaction. *Angew. Chem. Int. Ed.*, 2014, **53**, 6126-6130.
49. J. Healy, S. Ekkerman, C. Pliotas, M. Richard, W. Bartlett, S. C. Grayer, G. Morris, S. Miller, I. R. Booth, S. J. Conway, T. Rasmussen, Understanding the structural requirements for activators of the Kef bacterial potassium efflux system. *Biochemistry*, 2014, **53**, 1982-1992.
48. L. E. Jennings, A. R. Measures, B. G. Wilson, S. J. Conway, Phenotypic screening and fragment-based approaches to the discovery of small molecule bromodomain ligands. *Future Med. Chem.*, 2014, **6**, 179-204.
47. C. Cazares-Körner, I. M. Pires, I. D. Swallow, S. C. Grayer, L. O'Connor, M. M. Olcina, M. Christlieb, S. J. Conway, E. M. Hammond, CH-01 is a hypoxia-activated prodrug that sensitizes cells to hypoxia/reoxygenation through inhibition of Chk1 and Aurora A. *ACS Chem. Biol.*, 2013, **8**, 1451-1459.
46. D. S. Hewings, O. Fedorov, P. Filippakopoulos, S. Martin, S. Picaud, A. Tumber, C. Wells, M. M. Olcina, K. Freeman, A. Gill, A. J. Ritchie, D. W. Sheppard, A. J. Russell, E. M. Hammond, S. Knapp, P. E. Brennan, S. J. Conway, Optimization of 3,5-dimethylisoxazole derivatives as potent BET bromodomain ligands. *J. Med. Chem.*, 2013, **56**, 3217-3227.
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44. D. Hay, O. Fedorov, P. Filippakopoulos, S. Martin, M. Philpott, D. S. Hewings, S. Uttakar, T. D. Heightman, S. J. Conway, S. Knapp, P. E. Brennan, The design and synthesis of 5- and 6-isoxazolylbenzimidazoles as selective inhibitors of BET bromodomains. *Med. Chem. Commun.*, 2013, **4**, 140-144.
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42. D. S. Hewings, T. P. C. Rooney, L. E. Jennings, D. Hay, C. J. Schofield, P. E. Brennan, S. Knapp, S. J. Conway, Progress in the development and application of small molecule inhibitors of bromodomain-acetyl-lysine interactions. *J. Med. Chem.*, 2012, **55**, 9393-9413.
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37. L. Lyngberg, J. Healy, W. Bartlett, S. Miller, S. J. Conway, I. R. Booth, T. Rasmussen, Keff, regulatory subunit of the potassium efflux system KefC, shows quinone oxidoreductase activity. *J. Bacteriol.*, 2011, **193**, 4925-4932.
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35. N. S. Keddie, Y. Ye, T. Aslam, T. Luyten, D. Bello, C. Garnham, G. Bulyneck, A. Galione, S. J. Conway, Development of inositol-based antagonists for the D-myo-inositol 1,4,5-trisphosphate receptor. *Chem. Commun.*, 2011, **47**, 242-244.
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24. N. Avlonitis, S. Chalmers, C. McDougall, M. N. Stanton-Humphreys, C. T. A. Brown, J. G. McCarron and S. J. Conway, Caged AG10: New tools for spatially predefined mitochondrial uncoupling. *Mol. Biosyst.*, 2009, **5**, 450-457. (*Highlighted in RSC Chemical Biology and Faculty of 1000*).
23. S. J. Conway, TRPing the switch on pain: An introduction to the chemistry and biology of capsaicin and TRPV1. *Chem. Soc. Rev.*, 2008, **37**, 1530-1545.
22. R. G. Murray, D. Whitehead, F. Le Strat and S. J. Conway, Facile one-pot synthesis of 5-substituted hydantoins. *Org. Biomol. Chem.*, 2008, **6**, 988-991. (*Highlighted in SYNFACTS*).
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Patents

- S. J. Conway, E. M. Hammond and L. J. O'Connor. Fluorogenic protecting group. PCT 1320211.4 filed 15 Nov 2013.

- W. K. Lang, A. B. Holmes, Z. Lim, S. J. Conway, and M. K. Johns, Probe useful for diagnosis of antiphospholipid antibody syndrome comprises a cardiolipin derivative covalently attached to a solid phase other than through an allylic oxygen. WO200266990-A2 WOGB00720 20 Feb 2002 AU2002236002-A1 AU236002 20 Feb 2002 US2004096903-A1 US468264 19 Dec 2003.