

List of Publications

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Refereed articles and book chapters

- (1) Synthesis, Characterization and in Vivo Evaluation of a Magnetic Cisplatin Delivery Nanosystem Based on PMAA-Graft-PEG Copolymers. Voulgari, E.; Bakandritsos, A.; Galtsidis, S.; Zoumpourlis, V.; Burke, B. P.; Clemente, G. S.; Cawthorne, C.; Archibald, S. J.; Tuček, J.; Zbořil, R.; Kantarelou, V.; Karydas, A. G.; Avgoustakis, K.* *Journal of Controlled Release* **2016**, *243*, 342–356.
- (2) Development of radiodetection systems towards miniaturised quality control of PET and SPECT radiopharmaceuticals. M. P. Taggart, M. D. Tarn, M. M. N. Esfahani, D. M. Schofield, N. J. Brown, S. J. Archibald, T. Deakin N. Pamme and L. F. Thompson *Lab on a Chip*, **2016**, 1605-1616
- (3) Monolith-based ⁶⁸Ga processing: a new strategy for purification to facilitate direct radiolabelling methods. P. He, B. P. Burke, G. S. Clemente, N. Brown, N. Pamme and S. J. Archibald *Reaction Chemistry and Engineering*, **2016**, 361-365
- (4) A method to calibrate the RS 2000 x-ray biological irradiator for radiobiological flank irradiation of mice C. S. Moore, T. J. Wood, C. Cawthorne, K.L. Hilton, S. Maher, J.R. Saunderson, S. Archibald and A.W. Beavis *Biomedical Physics and Engineering Express*, **2016**, 037001
- (5) Aspartate-based CXCR4 receptor binding of cross-bridged tetraazamacrocyclic copper(II) and zinc(II) complexes, R. D. Maples, A. N. Cain, B. P. Burke, J. D. Silversides, R. E. Mewis, T. D'huys, D. Schols, D. P. Linder, S. J. Archibald and T. J. Hubin *Chemistry A European Journal*, **2016** in press
- (6) Structurally optimised BODIPY derivatives for imaging of mitochondrial dysfunction in cancer and heart cells S. Nigam, B. P. Burke, L. H. Davies, J. Domarkas, J. F. Wallis, P. G. Waddell, J. S. Waby, D. M. Benoit, A-M. Seymour, C. Cawthorne, L. J. Higham and S. J. Archibald *Chemical Communications*, **2016**, *52*, 7114 – 7117
- (7) Positron detection in silica monoliths for miniaturised quality control of PET radiotracers M. D. Tarn, D. Maneuski, R. Alexander, N. J. Brown, V. O'Shea, S. L. Pimlott, N. Pamme and S. J. Archibald *Chemical Communications*, **2016**, *52*, 7221 – 7224
- (8) Discovery of antischistosomal drug leads based on tetraazamacrocyclic derivatives and their metal complexes. M. O. Khan, J. Keiser, P. Amoyaw, M. Hossain, M. Vargas, J. Le, N. Simpson, K. Roewe, T. Freeman, T. Hasley, R. Maples, S. J. Archibald, and T. J. Hubin, *Antimicrobial Agents and Chemotherapy*, **2016**, in press.
- (9) Synthesis, Structures and Cytotoxicity Studies of p-Sulfonatocalix[4]arene Lanthanide Complexes, D. M. Miller-Shakesby, B. P. Burke, S. Nigam, G. J. Stasiuk, T. J. Prior, S. J. Archibald and C. Redshaw *CrystEngComm*, **2016**, DOI: 10.1039/C6CE00209A
- (10) Advanced Chelator Design for Metal Complexes in Imaging Applications: Radiopharmaceuticals, Protein Targeting and Conjugation *in Insights from Imaging in Bioinorganic Chemistry, Advances in Inorganic Chemistry* Editor(s) : van Eldik & Hubbard, B. P. Burke, J. Seemann and S. J. Archibald **2016**, *58*, 301-340.
- (11) Mono- and Bis-Alkylation of Glyoxal-Bridged Tetraazamacrocycles Using Mechanochemistry. Abdulwahaab, Bassim H; Burke, Benjamin P; Domarkas, Juozas; Silversides, Jon D; Prior, Timothy J; Archibald, Stephen J *J. Org. Chem.* **2016**, *81*, 890-898.
- (12) Synthesis and structural studies of two pyridine-armed reinforced cyclen chelators and their transition metal complexes. Wilson, K. R., Cannon-Smith, D. J., Burke, B. P., Birdsong, O. C., Archibald, S. J., & Hubin, T. J. *Polyhedron*, **2016** 10.1016/j.poly.2015.11.014
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- (15) Probing the Limits of Tetraazamacrocyclic-Glyoxal Condensates as Bidentate Ligands for Cu²⁺. Won, P. D.; Funwie, N. L.; Birdsong, O. C.; Obali, A. Y.; Burke, B. P.; McRobbie, G.; Greenman, P.; Prior, T. J.; Archibald, S. J.; Hubin, T. J., *European Journal of Inorganic Chemistry* **2015**, (28), 4678-4688.

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- (19) IL-24 prevents lung cancer cell migration and invasion by disrupting the SDF-1 α /CXCR4 signaling axis J. Panneerselvam, J. Jin, M. Shanker, J. Lauderdale, J. Bates, Q. Wang, T. J. Hubin, S. J. Archibald, R. Ramesh *Plos One* **2015**, *10*, (3).
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- (21) Burke, B. P.; Clemente, G. S.; Archibald, S. J., Boron-F-18 containing positron emission tomography radiotracers: advances and opportunities. *Contrast Media & Molecular Imaging* **2015**, *10*, (2), 96-110.
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