



Dr Sébastien Balieu



Maître de Conférences

Université de Rouen-Normandie

Bioorganic team

Tel : (+33) 2 35 52 24 34

E-mail :sebastien.balieu@univ-rouen.fr



PROFESSIONAL EXPERIENCES

- 2013- Researcher at COBRA; Rouen Normandy University, France.
2012-2013 Postdoctoral Associate; Advisor: Prof. V.K. Aggarwal, University of Bristol, UK.
2009-2011 Postdoctoral Associate; Advisor: Prof. Bouquillon and Prof. Haudrechy,
 Université de Reims, France.
2007-2008 ATER; Advisor: Prof. Courillon, Université de Paris VII, France.

EDUCATION

- 2004-2007 Ph.D. Organic Chemistry, University of Rennes 1, France.
2003-2004 M.S. Organic Chemistry, University of Rouen-Normandie, France.

ADMINISTRATIVE & INSTITUTIONAL RESPONSIBILITIES

- 2014- Member of the Advisor Commission of faculty specialists (CCSE, section 32) –
 University of Rouen, France.

RESEARCH INTERESTS

His current research fields in the bio-organic team including the development of new biological probes for the glycerophospholipids

SCIENTIFIC ACHIEVEMENTS

Academic record (h-index: 9) (RG score 25.83)

19 publications, 1 book chapters

SUPERVISION ACTIVITIES

Currently : 1 PostDoctorant, 1 PhD,
Since 2013: 2 PostDoctorant, 1 A.T.E.R., 3 PhD, 2 MASTER 2, 4 MASTER 1,

PUBLICATIONS

A versatile and recyclable molecularly imprinted polymer as an oxidative catalyst of sulfur derivatives: a new possible method for mustard gas and V nerve agent decontamination. Mohamed, S.; Balieu, S*; Petit, E.; Galas, L.; Schapman, D.; Hardouin, J.; Baati, R.; Estour, F*, **Chemical Communications** 2019, 55(88), 13243-13246.

Toward ideality: the synthesis of (+)-Kalkitoxin and (+)-Hydroxyphthioceranic acid by assembly-line synthesis. Balieu, S.; Hallett, G. E.; Burns, M.; Bootwicha, T.; Studley, J.; Aggarwal, V. K., **Journal of the American Chemical Society** 2015, 137(13), 4398-4403.

Assembly-line synthesis of organic molecules with tailored shapes. Burns, M.; Essafi, S.; Bame, J. R.; Bull, S. P.; Webster, M. P.; Balieu, S.; Dale, J. W.; Butts, C. P.; Harvey, J. N.; Aggarwal, V. K., **Nature** 2014, 513(7517), 183-188.

Radical cyclization of ynamides into six or eight membered rings. Application to the synthesis of a Protoberberine analog. Balieu, S*, Toutah, K., Carro, L., Chamoreau, L.-M., Rousselière, H., Courillon, C*, **Tetrahedron Letters** 2011, 52, 2876-2880.

The Chemistry of L-Sorbose. Zebiri, I., Balieu, S., Guilleret, A., Reynaud, R., Haudrechy, A., **European Journal of Organic Chemistry** 2011, 16, 2905-2910.

One-Step Surface decoration of PPI with glyceryl moiety: New Dendrimers for Homogeneous Catalysis in glycerol. Balieu, S., El Zein, A., De Sousa, R., Jérôme, F., Tatibouët, A., Gatard, S., Pouilloux, Y., Rollin, P., Bouquillon, S., **Advanced Synthesis and Catalysis** 2010, 352, 1826-1833.

Steric decompression of picket-strapped porphyrins for the synthesis of highly functionalized chelates. Balieu, S., Hijazi, I., Motreff, N., Lachaud, F., Even-Hernandez, P., Boitrel, B., **Organic Letters** 2010, 12, (1), 8-11.

Functionalization of porphyrins : mechanistic insights, conformational studies, and structural characterizations. Halime, Z.; Balieu, S.; Lachkar, M.; Roisnel, T.; Richard, P.; Boitrel, B., **European Journal of Organic Chemistry** 2006, (5), 1207-1215.

α,α -Difluoro-H-phosphinates: Useful intermediates for a variety of phosphate isosteres. Gautier, A.; Garipova, G.; Salcedo, C.; Balieu, S.; Piettre, S. R., **Angewandte Chemie, International Edition** 2004, 43, (44), 5963-5967.

Matteson homologation of pinacol boronic ester: an efficient method using the boronate complex. Balieu, S*, Bouyahya, A., Bouillon, J.-P. dans **Comprehensive Organic Chemistry**

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