

# Gregory S Smith

Associate Professor of Chemistry

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Gregory S. Smith is an Associate Professor of Chemistry in the Department of Chemistry, University of Cape Town, South Africa. He obtained his undergraduate degree at the University of Natal, Pietermaritzburg, South Africa and went on to complete his PhD (2003) at the University of the Western Cape. He enjoyed a short teaching stint at the University of South Africa (1997-1998) and he spent some time at the University of Bristol, UK (2005-2006) as a Postdoctoral Fellow, before returning to the University of Cape Town. He has held visiting professorships at the University of d'Artois (France), Soochow University (China) and the Malaviya National Institute of Technology (India).

Greg is a synthetic organometallic chemist (a subset of Inorganic Chemistry) with a multidisciplinary international research group. Greg's research approach, while endearing postgraduate students to research in basic science and scientific methods, is firmly grounded to solve realistic problems valued by pharmaceutical and petrochemical industries. His activities range from fundamental to application-driven areas, where the design, synthesis and application of small molecule and macromolecular transition metal complexes are explored. Applications are actively pursued in the areas of catalysis (hydroformylation, carbon-carbon coupling, photoredox) and bioorganometallic chemistry (anticancer, antimalaria).

## Selected Publications

1. Cody Williams, Michel Ferreira, Eric Monflier, Selwyn F. Mapolie and Gregory S. Smith, *Synthesis and hydroformylation evaluation of Fréchet-type organometallic dendrons with N,O-salicylaldimine Rh(I) complexes at the focal point*. DALTON TRANSACTIONS, 2018, **47**, 9418-9429.
2. Maxime Dauchy, Michel Ferreira, Jerome Leblond, Herve Bricout, Sebastien Tilloy, Gregory Smith and Eric Monflier, *New water-soluble Schiff-base ligands based on  $\beta$ -cyclodextrin for aqueous biphasic hydroformylation reaction*. PURE AND APPLIED CHEMISTRY, 2018, **90**, 845-855.
3. Tameryn Stringer, Ronnett Seldon, Nicole Liu, Digby Warner, Christina Tam, Luisa W. Cheng, Kirkwood M. Land, Peter J. Smith, Kelly Chibale and Gregory S. Smith, *Antimicrobial activity of organometallic isonicotinyl and pyrazinyl ferrocenyl-derived complexes*. DALTON TRANSACTIONS, 2017, **46**, 9875-9885.
4. Muneebah Adams, Tameryn Stringer, Carmen De Kock, Peter J. Smith, Kirkwood M. Land, Nicole Liu, Christina Tam, Luisa W. Cheng, Mathew Njoroge, Kelly Chibale and Gregory S. Smith, *Bioisosteric ferrocenyl-containing quinolines with antiplasmodial and antitrichomonal properties*. DALTON TRANSACTIONS, 2016, **45**, 19086-19095.
5. Preshendren Govender, Tina Riedel, Paul J. Dyson and Gregory S. Smith, *Regulating the anticancer properties of organometallic dendrimers using pyridylferrocene entities: synthesis, cytotoxicity and DNA binding studies*. DALTON TRANSACTIONS, 2016, **45**, 9529-9539.