



**Dr Paul Race**  
**BSc(Leeds), PhD(Birm.)**

Reader in Biological Chemistry

Office Room C.101b  
Biomedical Sciences Building,  
University Walk, Clifton BS8 1TD  
([See a map](#))

+44 (0) 117 33 11835  
[paul.race@bristol.ac.uk](mailto:paul.race@bristol.ac.uk)

## Summary

## Teaching

Biophysics and Molecular Life Sciences i

Biological Chemistry

Science and Society

Synthetic Biology

Science in Society

Biomedical Research, Employability and Enterprise Skills

The Dynamic Proteome

Advanced Options in Biochemistry

## Memberships

## Organisations

[School of Biochemistry](#)

## Other sites

- [Brissynbio](#)

## School of Biochemistry staff

- [Biochemistry academic staff](#)

## Recent publications

- Lees, NR, Han, L-C, Byrne, M, Davies, J, Parnell, A, Moreland, P, Stach, JEM, Kamp, MVd, Willis, C & Race, P, 2019, '[An Esterase-like Lyase Catalyzes Acetate Elimination in Spirotetronate/Spirotetramate Biosynthesis](#)'. *Angewandte Chemie - International Edition*, vol 58., pp. 2305-2309
- Xiao, W, Green, TIP, Liang, X, Delint, RC, Perry, G, Roberts, MS, Le Vay, K, Back, C, Ascione, R, Wang, H, Race, P & Perriman, A, 2019, '[Designer artificial membrane binding proteins direct stem cells to the myocardium](#)'. *Chemical Science*, vol 2019., pp. 7610 - 7618
- Wang, W, Moreau, N, Yuan, Y, Race, P & Pang, W, 2019, '[Towards machine learning approaches for predicting the self-healing efficiency of materials](#)'. *Computational Materials Science*, vol 168., pp. 180-187
- Marsh, CO, Lees, NR, Han, L-C, Byrne, MJ, Mbatha, SZ, Maschio, L, Pagden-Ratcliffe, S, Duke, P, Stach, JEM, Curnow, P, Willis, CL & Race, PR, 2019, '[A Natural Diels-Alder Biocatalyst Enables Efficient \[4 + 2\] Cycloaddition Under Harsh Reaction Conditions](#)'. *ChemCatChem*.
- Walker, P, Williams, C, Weir, A, Wang, L, Crosby, J, Race, P, Simpson, T, Willis, C & Crump, M, 2019, '[Control of beta-Branching in Kalimantacin Biosynthesis: Application of Direct Observe 13C NMR to Polyketide Programming](#)'. *Angewandte Chemie*, vol 58., pp. 12446-12450

- Maschio, L, Parnell, A, Lees, NR, Willis, C, Berger-Schaffitzel, C, Stach, JEM & Race, P, 2018, '[Cloning, Expression and Purification of Intact Polyketide Synthase Modules](#)'. in: *[forthcoming Methods in Enzymology volume]*. Elsevier Inc., pp. 63-82
- Mohammad, HH, Connolly, JA, Song, Z, Hothersall, J, Race, PR, Willis, CL, Simpson, TJ, Winn, PJ & Thomas, CM, 2018, '[Fine Tuning of Antibiotic Activity by a Tailoring Hydroxylase in a Trans-AT Polyketide Synthase Pathway](#)'. *ChemBioChem*, vol 19., pp. 836-841
- Wang, L, Parnell, A, Williams, C, Bakar, NA, Challand, MR, Kamp, MWvd, Simpson, TJ, Race, PR, Crump, MP & Willis, CL, 2018, '[A Rieske oxygenase/epoxide hydrolase-catalysed reaction cascade creates oxygen heterocycles in mupirocin biosynthesis](#)'. *Nature Catalysis*, vol 1., pp. 968-976
- Back, C, Sztukowska, MN, Till, M, Lamont, RJ, Jenkinson, HF, Nobbs, A & Race, P, 2017, '[The Streptococcus gordonii adhesin CshA protein binds host fibronectin via a catch-clamp mechanism](#)'. *Journal of Biological Chemistry*, vol 292., pp. 1538-1549
- Gao, S, Wang, L, Song, Z, Hothersall, J, Stevens, ER, Connolly, J, Winn, PJ, Cox, R, Crump, M, Race, P, Simpson, T & Willis, C, 2017, '[Selected Mutations Reveal New Intermediates in the Biosynthesis of Mupirocin and the Thiomarinol Antibiotics](#)'. *Angewandte Chemie - International Edition*, vol 56., pp. 3930-3934

[View complete publications list](#) in the University of Bristol publications system