



## Curriculum Vitae

Personal information **Katie Bowen**

### Work experience

1. Employer: Health Products Regulatory Authority

- Start date: 01/2024
- End date: Present
- Position: Pharmaceutical Assessor
- Country: Ireland

2. Employer: Trinity College Dublin

- Start date: 01/2021
- End date: 07/2023
- Position: Postdoctoral Researcher
- Country: Ireland

3. Employer: Norbrook Laboratories

- Start date: 05/2016
- End date: 09/2016
- Position: QC Analyst
- Country: Ireland

### Education and training

1. Trinity College Dublin

- Start Date: 10/2016
- End Date: 12/2020
- Qualification: PhD in Organic Chemistry
- Thesis title: Development of Synthetic Peptides as Functional Probes for the Lipoprotein Biosynthesis Pathway in Bacteria
- Country: Ireland

2. Trinity College Dublin

- Start Date: 09/2012
- End Date: 05/2016
- Qualification: BA Hons. in Chemistry
- Country: Ireland

### Additional information

#### Publications

T. W. Craven, M. D. Nolan, J. Bailey, S. Olatunji, S. J. Bann, K. Bowen, N. Ostrovitsa, T. M. Da Costa, R. D. Ballantine, D. Weichert, P. M. Levine, L. J. Stewart, G. Bhardwaj, J. A. Geoghegan, S. A. Cochrane, E. M. Scanlan, M. Caffrey, D. Baker (2024) **Computational Design of Cyclic Peptide Inhibitors of a Bacterial Membrane Lipoprotein Peptidase**. ACS Chemical Biology, 19(5), 1125–1130, DOI:10.1021/acscchembio.4c00076

L. Smithers, O. Degtjarik, D. Weichert, C. Y. Huang, C. Boland, K. Bowen, A. Oluwole, C. Lutomski, C. Robinson, E. M. Scanlan, W. Wang, V. Olieric, M. Shalev-Benami, M. Caffrey (2023) **Structure snapshots reveal the mechanism of a bacterial membrane lipoprotein N-acyltransferase**, Science Advances, 9(26), DOI:10.1126/sciadv.adf5799

S. Olatunji, K. Bowen, C. Y. Huang, D. Weichert, W. Singh, I. G. Tikhonova, E. M. Scanlan, V. Olieric, M. Caffrey (2021) **Structural basis of the membrane intramolecular transacylase reaction responsible for lyso-form lipoprotein synthesis**, Nature Communications, 12(4245), DOI: 10.1038/s41467-021-24475-0

S. Olatunji, X. Yu, J. Bailey, C. Y. Huang, M. Zapotoczna, K. Bowen, M. Remškar, R. Müller, E. M. Scanlan, J. A. Geoghegan, V. Olieric, M. Caffrey (2020) **Structures of lipoprotein signal peptidase II from Staphylococcus aureus complexed with antibiotics globomycin and myxovirescin**, Nature Communications, 11(140), DOI: 10.1038/s41467-019-13724-y

R. Petracca, K. Bowen, L. McSweeney, S. O'Flaherty, V. Genna, B. Twamley, M. Devocelle, E. M. Scanlan (2019) **Chemoselective Synthesis of N-Terminal Cysteinyll Thioesters via  $\beta,\gamma$ -C,S Thiol-Michael Addition**, Organic Letters, 21(9), 3281-3285, DOI: 10.1021/acs.orglett.9b01013

#### Projects

#### Memberships

#### Other Relevant Information