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Department of Chemistry, University of Oxford
ACS *Citation for Chemical Breakthrough* Symposium

Do beta-lactams have a future?

Tuesday 2nd Novmber 2016
11am – 5pm
Inorganic Chemistry Laboratory, South Parks Road, Oxford

A one-day symposium marking the award of an ACS Citation for Chemical Breakthrough to Oxford Chemistry for the report of the structural determination of penicillin by Dorothy Crowfoot-Hodgkin and Barbara Rogers-Low.

It is the 75th anniversary of the first human trials of penicillin carried out in the Radcliffe Infirmary in Oxford. Since those trials, beta-lactam antibiotics have become a powerful clinical weapon against infection and a success story of modern medicine. Structural information is as critical today as it was 75 years ago: underpinning advances in the clinical effectiveness of beta-lactams including studying the development of penicillin binding protein and beta-lactamase resistance; and enhancing penicillin production by industrial organisms.

This meeting will include talks from academic and industrial researchers on the continuing challenges of developing and delivering effective beta-lactam antibiotics.

11.00 Opening Remarks and presentation of ACS Citation for Chemical Breakthrough Award
11.30 **Jim Spencer** (Bristol)
12.00 **Allen Orville** (XFEL Hub)

12.30 Lunch and posters (in CRL)

14.00 **Chris Dowson** (Warwick) *75 years on: unravelling the targets of penicillin*
14.30 **Achillefs Kapandis** (Oxford) *Reaching better antibiotics by diffraction-unlimited imaging*
15:00 **Frank von Delft** (Diamond) *New chemical opportunities from massive screening for fragments directly in crystals"*

15:30 Tea/Coffee

16:00 **Tim Walsh** (Cardiff) *Tackling global AMR: to dream or to scream?*
16:30 TBC (AstraZeneca)

All welcome. Please contact Jenny Houlsby (jenny.houlsby@chem.ox.ac.uk) or Richard Cooper (richard.cooper@chem.ox.ac.uk) for further details