

RSC – Mid Southern Counties Scientific Seminar

Prof. Veronique Gouverneur

RSC Tilden Prize

Wednesday 8th February 2017

14:00

Building 27 Room 2001 (Chemistry)

University of Southampton, Southampton, SO17 1BJ

Prof. Veronique Gouverneur (University of Oxford, UK) received the Tilden Prize for her interdisciplinary work in the area of organofluorine chemistry and radiochemistry, and the impact of her discoveries in medicine.

Late Stage ^{18}F -Fluorination for PET Imaging

The success of Positron Emission Tomography (PET) and renewed interest in [^{18}F]radiochemistry led to creative methods to incorporate ^{18}F into molecules of increasing complexity. Despite these advances, clinically useful radiotracers lie within a narrow accessible space with [^{18}F]fluoroalkanes and [^{18}F]fluoroarenes at the forefront. Many potentially high value PET ^{18}F -labeled tracers and drugs lie outside this radiochemical space, and the ability to test tracers not amenable to traditional or newly developed ^{18}F -labeling intervention would be a major boost for PET imaging. A more diverse range of ^{18}F -tags could immediately serve medicinal chemists by informing the selection of lead compounds much earlier in the drug discovery pipeline. This lecture will present our general approach to late stage ^{18}F -fluorination and the recent contribution we have made to this field of research with the labeling of a range of high value ^{18}F -tags for PET.

For further information please contact

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