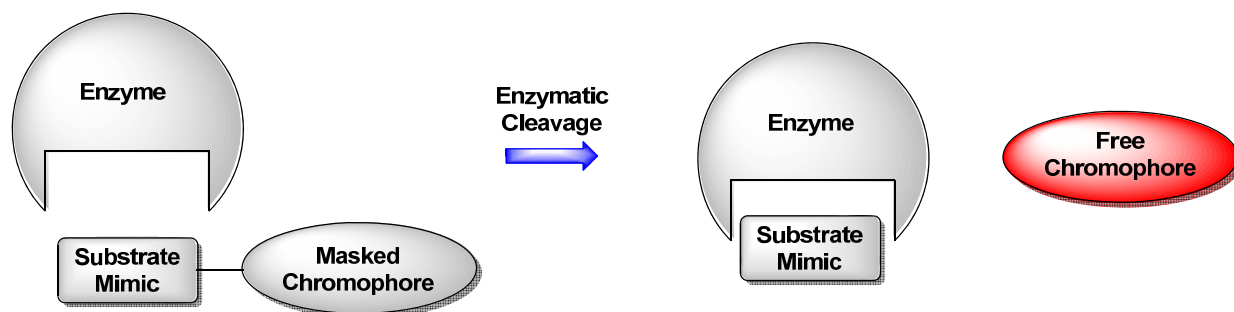


The Development of Next Generation Ultra-Fast Detection Assays for Hospital Acquired Infections

Dr Alex Sinclair, Dr Adam Le Gresley and Prof. Mark Fielder

We have recently developed a rapid detection system for the bacteria *Staphylococcus aureus*, which is responsible for a significant number of hospital acquired infections throughout the world, with the potential to drastically decrease detection times and potentially decrease infection rates. This work was published recently (*Organic and Biomolecular Chemistry*, 2013, 11, 3307), and is currently being developed towards a commercial point-of-care diagnostic tool.



Building on the success of this exciting new technology, we are expanding this methodology towards the rapid detection of a wide range of other healthcare related problem organisms, and this interdisciplinary project between Pharmacy & Chemistry and Life Sciences will involve the synthesis and microbiological evaluation of a number of next generation prototype assays.

This project is being driven with commercial goals in mind and the student will also develop expertise in a diverse range of skills, including organic synthesis, spectroscopy, microbiology and commercialisation.

This project crosses the boundary between chemistry and biology and the successful student will join an emerging cross disciplinary project team with a close supportive network of academic supervisors to ensure that our student achieves their full potential.

For further information on this project, please feel free to contact Dr Alex Sinclair (alex.sinclair@kingston.ac.uk)