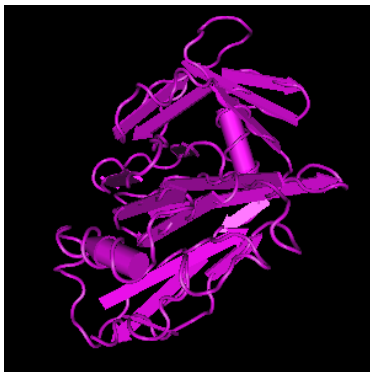




Prof. Dr. Stuart A. Wilson

University of Sheffield, UK

"From human mRNA export pathways to translation and what goes wrong in the disease melioidosis."



Crystal Structure of the Burkholderia Lethal Factor 1 (Blf1)

Cruz-Migoni *et al.*, *Science* **334**, p. 821 (2011)
10.1126/science.1211915

In the first part of this seminar I will describe our recent work on how mRNA is transported from the nucleus to the cytoplasm in human cells. I will introduce the molecular machinery involved in this process and explain how we have uncovered a mechanism for licensing mRNA for export. I will then move on to consider the mechanism of action of a toxin from *Burkholderia pseudomallei* which causes a disease known as melioidosis and I will show how this toxin inhibits mRNA translation in human cells.

For **PhD students** there will be a possibility to meet Stuart Wilson **28.01.14** in the seminar room **5.2.39** behind the Dresselhaus kitchen at 16.00-17.00. Here you can get answers to any questions regarding career, establishing your own lab, available positions or research. There will be cookies and drinks present and there are creditpoints available (0,1 career supporting event).

Host: Graduate Research Academy RNA Biology, Graduate colloquium group



Universität Regensburg
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graduate
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