

PNEUMOPATH Symposium, Oeiras, 27th June 2012

A comprehensive dissection of pneumococcal-host interactions

www.pneumopath.org



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Project Rationale

- *Streptococcus pneumoniae* is a major human pathogen
- The outcome of infection is determined by the interplay of the collection of attributes of the host and pathogen
- Contribution of an individual factor to the infectious process may vary according to host and pathogen factors that are present
- Pneumococcal vary in their repertoire of genes
- Only a limited number of pneumococcal and *in vitro* and *in vivo* models used
- Study of host and pathogen has tended to take a reductionist approach, with the contribution of individual factors being considered in isolation.



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PNEUMOPATH Work Programme

- Molecular epidemiology and genetic characterisation of pneumococcal isolates
- Host susceptibility
- Animal models
- Cell culture models
- Pneumococcal physiology
- Bioinformatics



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