

# SgN Immunology Seminar



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## Clearing aged neutrophils

Neutrophils are not only the first line of immune defense against invading pathogens, they are also the shortest lived cells in blood. This feature probably arose during evolution as a means to eliminate cells that contained granules with a highly toxic content from the vascular system. I will present data from our laboratory that illustrates how neutrophils are activated by certain blood elements and how this leads to vascular injury and even death, thus justifying the need to clear them from the circulation. I will also present current efforts from the lab to understand how the body handles the massive numbers of neutrophils that are eliminated from the bloodstream every day, and the potential impact that this process has in the physiology of certain organs.

*Host*

Dr Ng Lai Guan  
Singapore  
Immunology  
Network, A\*Star

*Date*

**Monday**  
**1 September 2014**

*Time*

3pm – 4pm

*Venue*

SgN Seminar  
Room  
Immunos Building  
Level 4  
Biopolis