

Propositions accompanying the PhD dissertation

Group 2 Innate Lymphoid Cells in Allergic Airway Inflammation

Early Birds or Night Owls

1. ILC2 activation is critically dependent on the presence of T cells in house dust mite-induced allergic airway inflammation in mice. *This thesis*
2. Because the phenotype of ILC2s is heterogeneous and variable over time depending on micro-environmental cues, it is important to carefully consider the markers used to identify this cell population. *This thesis*
3. T cells are early producers of type 2 cytokines in influenza-induced asthma exacerbations, while ILC2s become major contributors after virus clearance. *This thesis*
4. ILC2s employ a flexible epigenome that adapts to the microenvironment, ensures tissue-specific gene expression and supports functional plasticity. *This thesis*
5. Peripheral blood ILC2 counts in asthma patients correlate with T cell numbers, suggesting co-activation of these cells in humans. *This thesis*
6. Activation of ILC2s can be a double-edged sword eliciting both beneficial and damaging type 2 immune responses. *Wills-Karp and Finkelman, Nature Immunology, 2011; Mirchandani et al., Archivum Immunologiae et Therapiae Experimentalis, 2015*
7. The challenge is now for physicians not to get lost in the large variety of clinical studies but to succeed in making the connection between one particular patient and the appropriate evidence-based management. *Charriot et al., European Respiratory Review, 2016*
8. We should take advantage of the explosive increase in data volume and availability by embracing the development of artificial intelligence such as machine learning in order to accelerate scientific discovery.
9. Video gaming augments gray matter in brain areas crucial for spatial navigation, strategic planning, working memory and motor performance with evidence for behavioral changes in navigation strategy. *Kühn et al., Molecular Psychiatry, 2014*
10. You do not need a therapist if you own a motorcycle.
11. 不怕慢，就怕停。(Be not afraid of growing slowly, be afraid only of standing still.)