**NORMALS**

- Minimal inflammation
- Short-lived, upper respiratory symptoms only

- ▲ IFN-γ
- Strong NK cell and Th1 cell responses
- Robust interferon responses
- Up-regulation of interferon-stimulated genes

**ASTHMATICS**

EXACERBATION

- Cell necrosis
- Excessive inflammatory response

- ▼ IFN-γ
- Predominant Th2 cells

**Virus infection of epithelial cells**

- Uncontrolled viral replication
- Impaired interferon responses
- Predominant Th2 cells