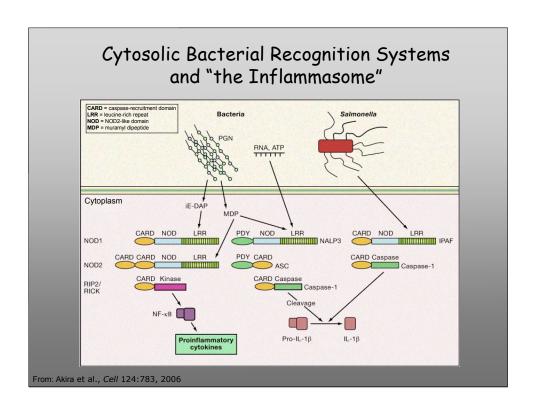
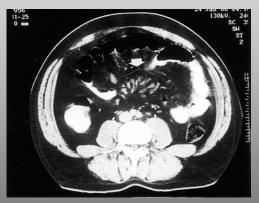
Newly Recognized Components of the Innate Immune System

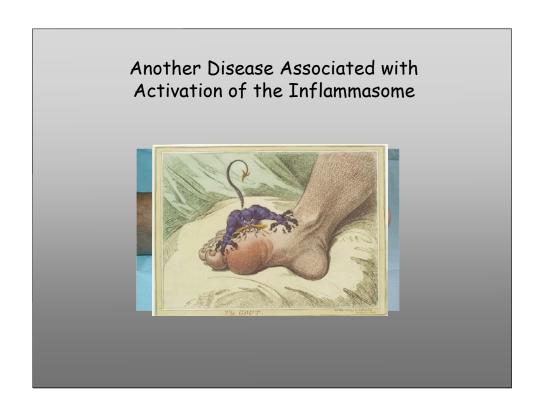
NOD Proteins: Intracellular Peptidoglycan Sensors NOD-1 NOD-2 LRR; Ligand Recognition Protein RICK Polymorphisms in Nod-2 are associated with up to 30-40% of cases of Crohn's disease (an inflammatory bowel disease) CARD, caspase-recruitment domain; LRR, leucine-rich repeat; RICK, a CARD-containing protein kinase

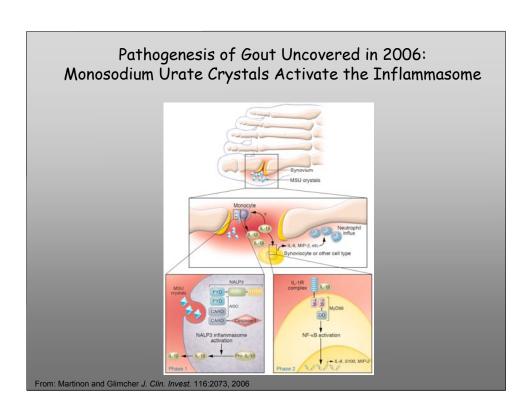


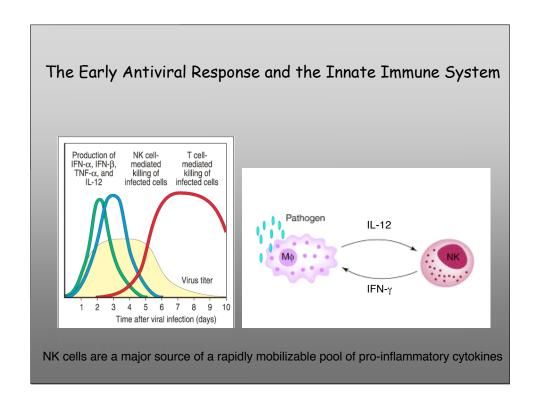
Mutations in Pyrin, Another CARD-containing Innate Immune-like Protein, is Responsible for Familial Mediterranean Fever

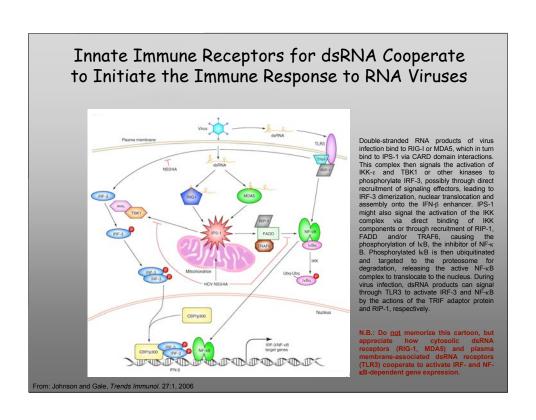


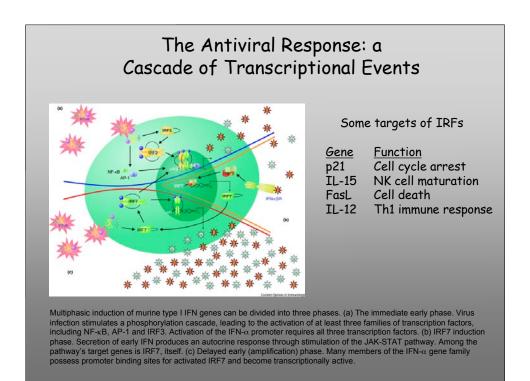
Contrast-enhanced abdominal CT from a 31 year-old patient with Familial Mediterranean Fever suffering an acute attack of abdominal pain, nausea, vomiting, and arthritis. Note mesenteric vessel with thickened mesenteric fold (*white arrow*). Histopathology demonstrated neutrophilic infiltrate and associated vasculitis. Treatment with an IL-1 receptor antagonist (Anakinra) resulted in prompt cessation of symptoms.

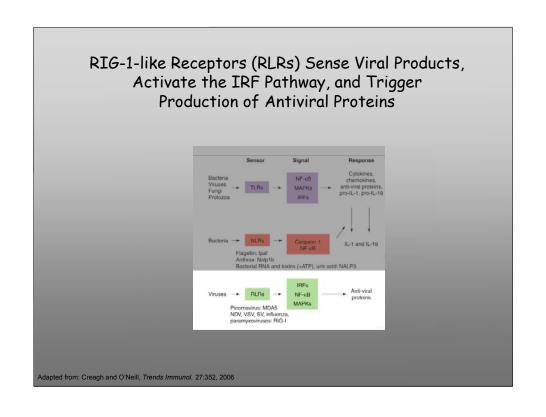


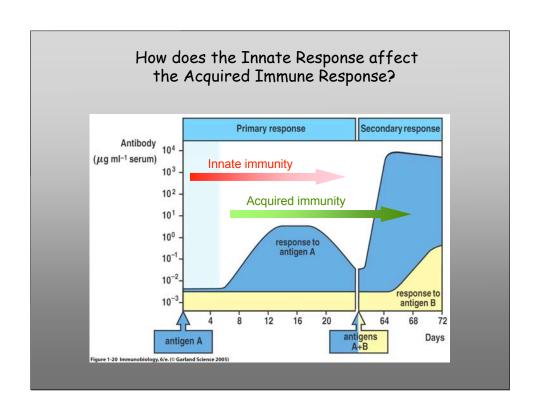


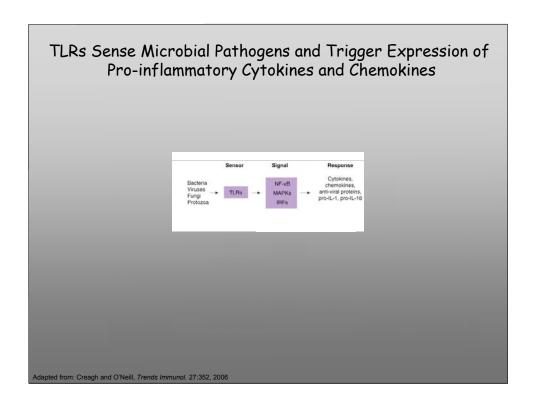


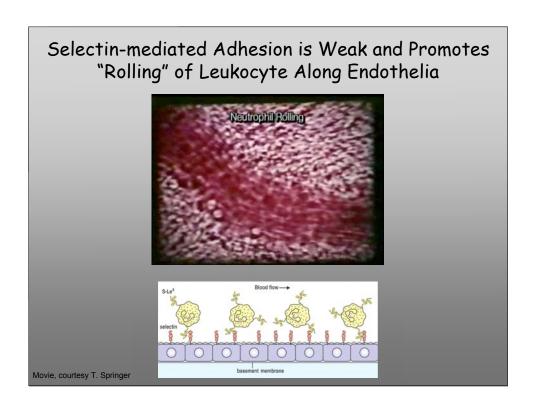


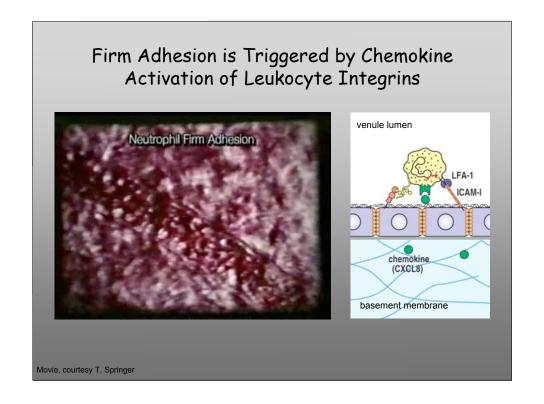


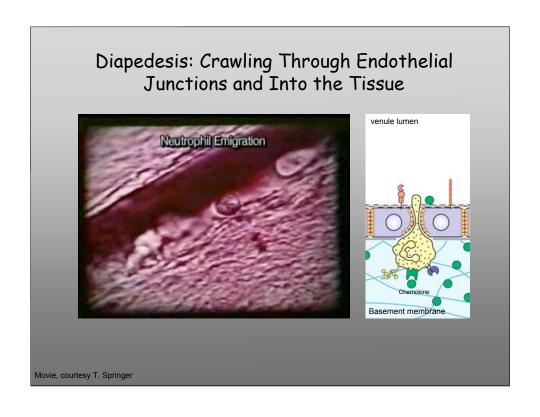


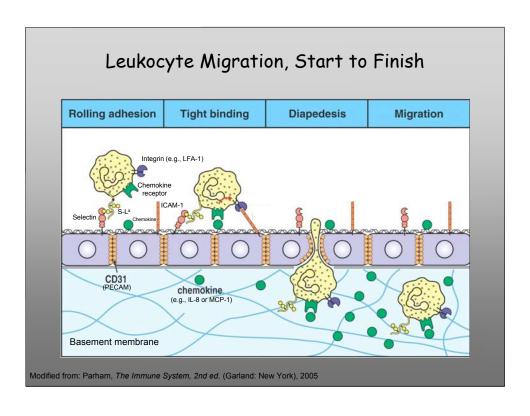




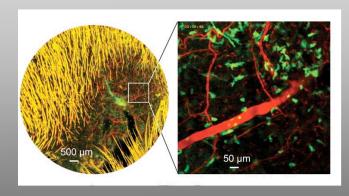








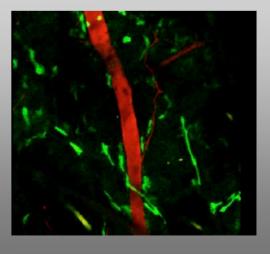
Intravital Imaging of a Subset of Mouse Monocytes in Dermal Blood Vessels



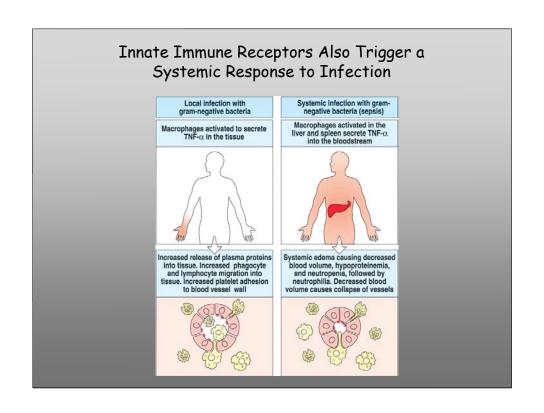
CX₃CR1-expressing cells express GFP in reporter mice, and dermal blood vessels are labeled with rhodamine-conjugated dextran.

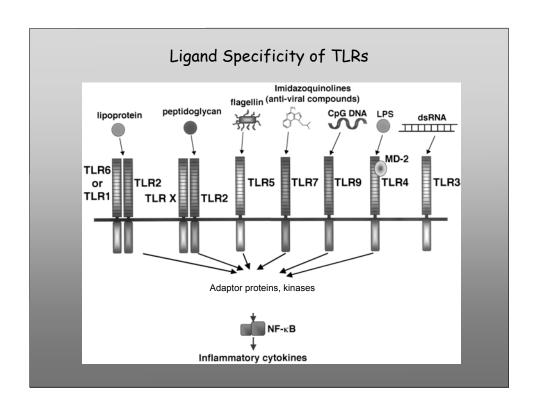
From: Auffray et al., Science 317:666, 2007

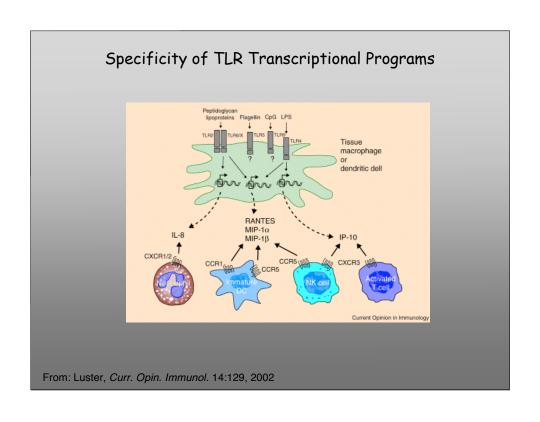
A Subset of Monocytes "Patrol" the Vasculature, Primed for Diapedesis

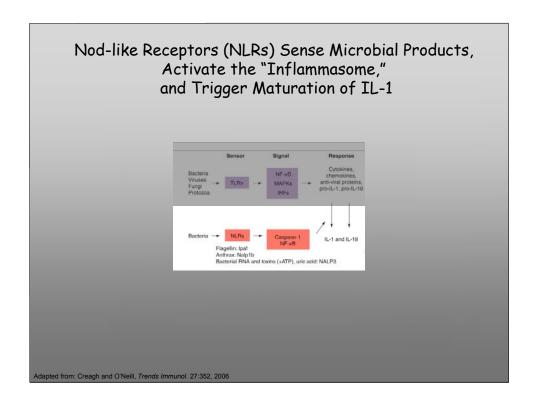


From: Auffray et al., Science 317:666, 2007



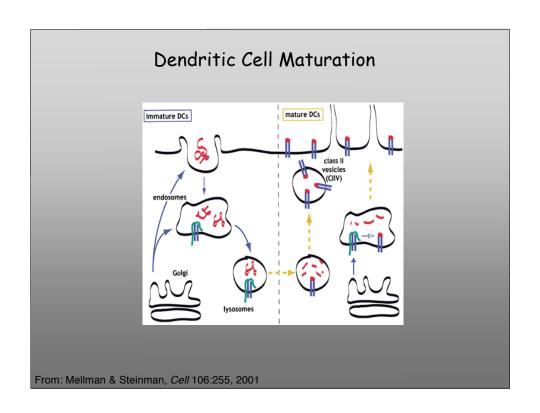




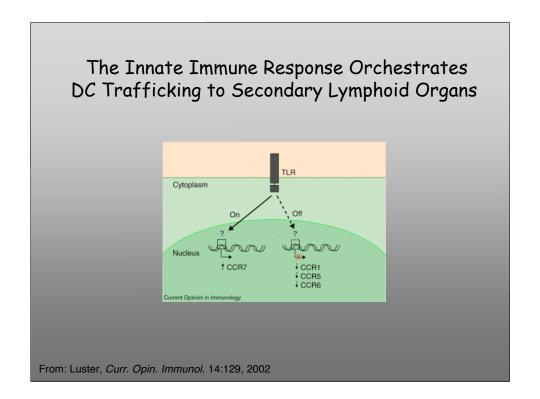


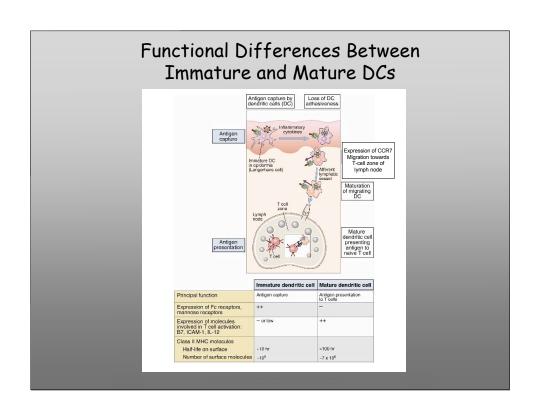
The Dendritic Cell and Development of The Primary Immune Response:

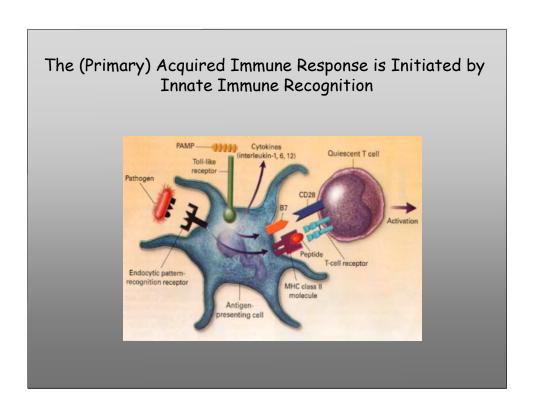
Wisdom Through Maturity

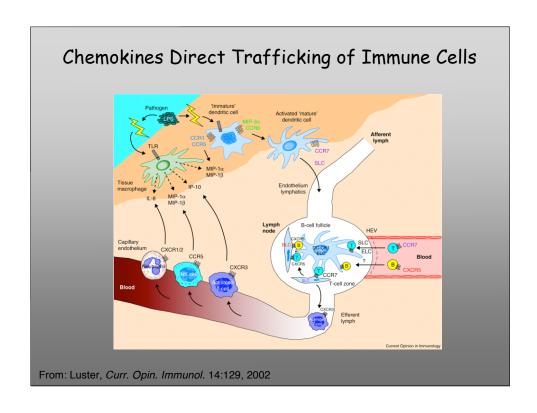


Question: What Triggers Maturation of DCs?









Science is like looking through a keyhole: The closer you get to the keyhole, the more you see of the room on the other side.

-George Wald 1967 Nobel Laureate in Medicine