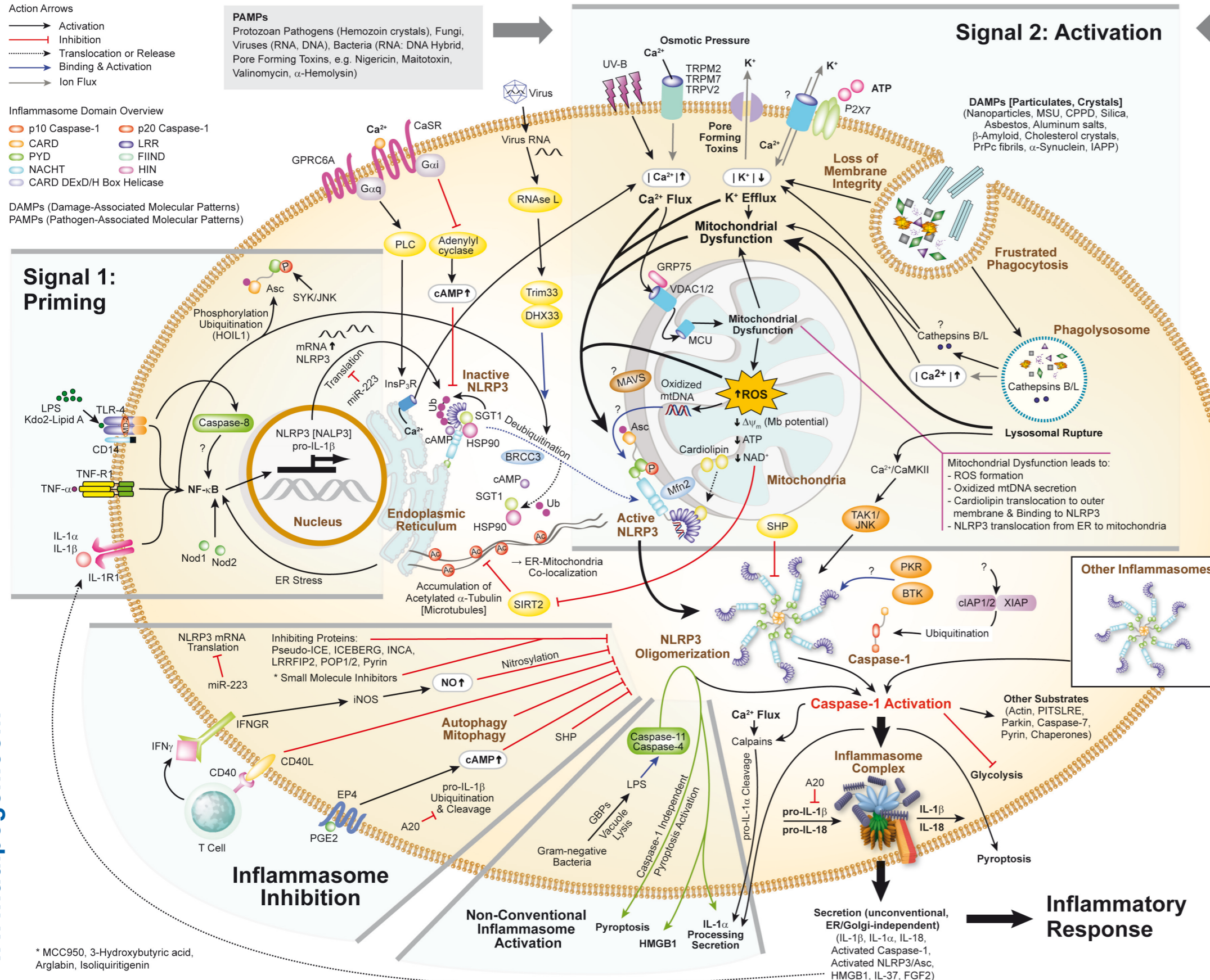


# NLRP3 Inflammasome

## Activation, Signaling & Regulation

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**DAMPs**  
ATP, UVB, Uric acid crystals, Amyloid-β, Fibrils, Asbestos, Cholesterol crystals, Aluminium salts, PrPc fibrils, α-Synuclein, Saturated fatty acids, High fat diet, Nanoparticles, IAPP, Hyperglycemia, Hypoxia, Acidosis, Tissue injury, Cell death, Cell stress

**Diseases**  
Metabolic Diseases (Obesity, Type 2 Diabetes, Cardiovascular), Cancers, Neurodegenerative Diseases (Alzheimer's, Parkinson), Gout, Autoimmunity, Allergy, Autoinflammatory Diseases

Inflammasomes and Pathogens Short Overview		
	Mechanism	Stimuli
<b>NLRP1 Inflammasome</b>	Asc NLRP1 Ion Flux Lysosomal Rupture	PAMPs, DAMPs, Anthrax toxin
<b>NLRP3 Inflammasome</b>	Asc NLRP3 [NALP3] Mitochondrial Dysfunction Ion Flux Lysosomal Rupture Oxidative Stress	PAMPs, DAMPs, Crystals
<b>NLRP6/7/12 Inflammasomes</b>	Asc NLRP6/7/12	PAMPs Microbiota Listeria monocyt. S. aureus Bacterial acLP Yersinia pestis
<b>NLRC4 Inflammasome</b>	Asc NLRC4 NAIP2/5/6	PAMPs Type III/IV Secretion Bacteria, Flagellin
<b>AIM2 &amp; IFI16 Inflammasomes</b>	Asc AIM2/IFI16 Cytosolic DNA	PAMPs Viral DNA Bacterial DNA Self-DNA
<b>RIG-I Inflammasome</b>	Asc RIG-I RNA	PAMPs Viral Infection

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\* MCC950, 3-Hydroxybutyric acid, Argabin, Isoliqurritigenin