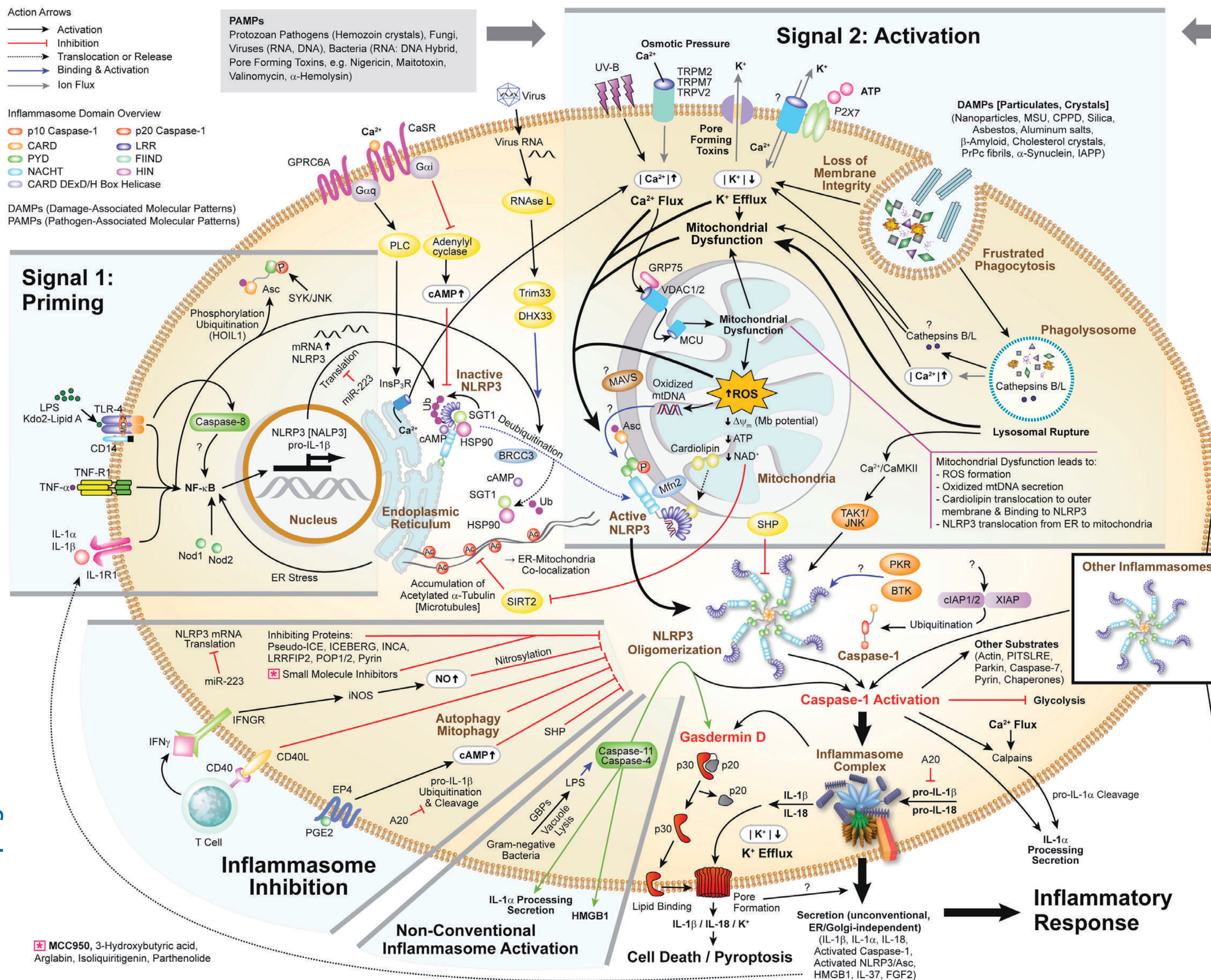


# NLRP3 Inflammasome

## Activation, Signaling & Regulation

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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
NLRP1 Inflammasome	Asc Ion Flux Lysosomal Rupture	PAMPs, DAMPs, Anthrax toxin
NLRP3 Inflammasome	Asc Mitochondrial Dysfunction Ion Flux Lysosomal Rupture Oxidative Stress	PAMPs, DAMPs, Crystals
NLRP6/7/12 Inflammasomes	Asc ?	PAMPs Microbiota Listeria monocyt. S. aureus Bacterial acLP Yersinia pestis
NLR4 Inflammasome	Asc NLR4 NAIP2/5/6	PAMPs Type III/IV Secretion Bacteria, Flagellin PKCδ-dependent Phosphorylation
AIM2 & IFI16 Inflammasomes	Asc AIM2/IFI16 Cytosolic DNA	PAMPs Viral DNA Bacterial DNA Self-DNA
RIG-I Inflammasome	Protein X RIG-I RNA	PAMPs Viral Infection

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⊠ MCC950, 3-Hydroxybutyric acid, Argabin, Isoliquiritigenin, Parthenolide

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