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1905 Recombinant Thrombomodulin Inhibits Lipopolysaccharide-Induced Inflammatory Response by Blocking the Functions of CD14
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1916 miR-24, miR-30b, and miR-142-3p Regulate Phagocytosis in Myeloid Inflammatory Cells
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1928 TAM Receptor–Dependent Regulation of SOCS3 and MAPKs Contributes to Proinflammatory Cytokine Downregulation following Chronic NOD2 Stimulation of Human Macrophages
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1938 A RIPK3–Caspase 8 Complex Mediates Atypical Pro–IL-1β Processing
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1945 Acquisition of Activation Receptor Ligand by Trogocytosis Renders NK Cells Hyporesponsive
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1954 Activation-Specific Metabolic Requirements for NK Cell IFN-γ Production
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MOLECULAR AND STRUCTURAL IMMUNOLOGY

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1975 Unique Ligand-Binding Property of the Human IgM Fc Receptor
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MUCOSAL IMMUNOLOGY

1983 TLR Signaling Modulates Side Effects of Anticancer Therapy in the Small Intestine
Magdalena Frank, Eva Maria Hennenberg, Annette Eyking, Michael Rünzi, Guido Gerken, Paul Scott, Julian Parkhill, Alan W. Walker, and Elke Cario

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1996 Transplanted Bone Marrow–Derived Circulating PDGFRα+ Cells Restore Type VII Collagen in Recessive Dystrophic Epidermolysis Bullosa Mouse Skin Graft
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2004 Cancer-Associated Oxidoreductase ERO1-α Drives the Production of Tumor-Promoting Myeloid-Derived Suppressor Cells via Oxidative Protein Folding
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2011 Alkylating Agent Melphalan Augments the Efficacy of Adoptive Immunotherapy Using Tumor-Specific CD4+ T Cells
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2033 Correction: Dual Function of CD70 in Viral Infection: Modulator of Early Cytokine Responses and Activator of Adaptive Responses
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