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Patents

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Research Interests

Hyper-IgE Syndrome

Immune Regulation

Gamma Delta T-Cells

Autoimmune Pulmonary Alveolar

Rare Immune Diseases

Trained Immunity

Proteinosis Pathways

Experimental Capabilities

Immunology

Autoimmunity

Preclinical Disease Models

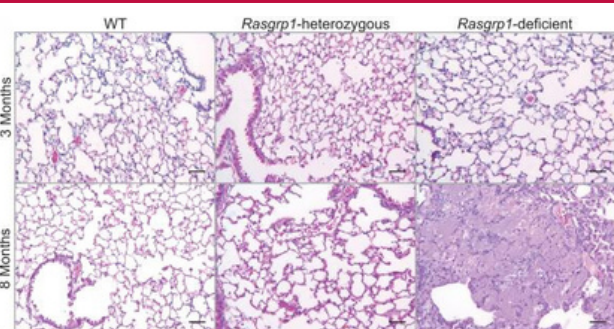
Lymphocytes Antibodies

Trained Immunity

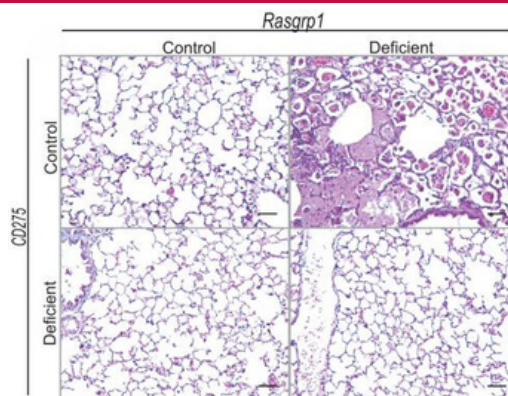
Single Cell Transcriptomics

Intracorneal Infection

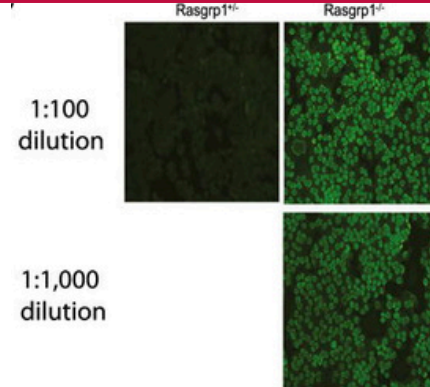
Flow Cytometry



Formalin-fixed paraffin-embedded lung sections of control and *Rasgrp1*-deficient lungs stained with H&E. Upper panels represent young (2-3 months) mice and lower panels represent aged (7-12 months) mice (scale bars, 50µm).



Rasgrp1-deficient mice lacking CD275/ICOSL do not develop pulmonary alveolar proteinosis (PAP) and have normal GM-CSF-specific autoantibody levels.



Autoimmunity in *Rasgrp1*-deficient mice is CD275 independent. Hep-2 ANA staining from representative *Rasgrp1*+/- mice (left), *Rasgrp1*-/- mice (right).

2016

Cell Immunology

"Phosphatidylcholine as a metabolic cue for determining B cell fate and function"

2023

"N-f-MLF Derivatives that Inhibit Formyl Peptide Receptors for the Treatment of Disease"

US Patent Pending

2005

Journal of Immunology

"CD21/CD19 coreceptor signaling promotes B cell survival during primary immune responses"

2016

Journal of Immunology

"Autoantibody-Mediated Pulmonary Alveolar Proteinosis in *Rasgrp1*-Deficient Mice"

2019

Cell Immunology

"CCR6-Positive $\gamma\delta$ T Cells Provide Protection Against Intracorneal HSV-1 Infection"



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