

Jon Woods

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Education

University of Washington, Seattle
Bachelor of Science in Molecular, Cellular and Developmental Biology

Graduated Winter 2018

Technical Skills

- CAR T cell experiments
 - EAE experiments
 - VLP experiments
 - IBD experiments
 - *In vitro* experiments
 - Flow cytometry
 - Cell sorting
 - Bone marrow chimeras
 - Murine tissue extraction and processing
 - Column purification
 - ELISA
 - Analyzing, graphing and presenting data
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Research Experience

Seattle Children's Research Institute
Research Scientist (I-II), PI: Shaun Jackson, MD PhD

Seattle, WA

May 2019 – Present

- Design and execute experiments on B cell autoimmunity and antiviral response in *Ncf1*^{-/-} and *Nox2*^{-/-} mice.
- Design and execute experiments on multi-organ autoimmunity in *Stat3*^{K392R GOF} mice.
- Harvest, culture, transfect and inject CD4⁺ and CD8⁺ T cells with an anti-CD19 CAR for B cell depletion experiments.
- Analyze, graph, and present data in lab meetings regularly.

Seattle Children's Research Institute
Research Technician, PI: Mohamed Oukka, PhD

Seattle, WA

July 2018 – April 2019

- Performed experiments focusing on T_H17 cells in EAE and IBD mouse models.
- Harvested, processed, stained and analyzed blood, peritoneal fluid, bone marrow, lymph nodes, spleen, thymus, lungs, small intestines, large intestines, liver, and the central nervous system from mice.
- Created and maintained electronic colony records of 1,200 mice.

UW Medicine Research
Research Technician, PI: Michael Gerner, PhD

Seattle, WA

April 2018 – September 2018

- Harvested blood and tissue samples from mice for genotyping via PCR and flow.
 - Maintained mouse colony including database, animal husbandry, weaning, and euthanasia.
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Publications

Jacobs H, Arkatkar T, Du SW, Scharping NE, **Woods JD**, Li QZ, Hudkins KL, Alpers CE, Rawlings DJ, Jackson SW. TAC1 haploinsufficiency protects against BAFF-driven humoral autoimmunity in mice. *EJ Immunology*, 2021 Jun 19.

Chaing K, Andrea L, Arkatkar T, Thouvenel CD, Du SW, Qureshah FA, **Woods JD**, Rawlings DJ, Jackson SW. A threshold of B cell costimulatory signals is required for spontaneous germinal center formation in autoimmunity. *Cutting Edge JI*, 2021 Sep.

Avalos A, Suwankitwat N, **Woods JD**, Jackson SW, Christodoulou A, Zhu C, Li QZ, Bui K, Park H, Iritani B. Hem-1 regulates protective humoral immunity and limits autoantibody production in a B cell specific manner. Under Review at *JCI*, 2021 Aug.

Awards

3R01AR073938-02S1 (PI: Jackson)

09/01/2020-06/30/2022

NIH/NIAMS

\$47,254 direct costs x 2 years

Diversity Supplement B cell costimulatory signals in the pathogenesis of SLE

Diversity supplement to R01 AR073938-01A1 to support Jon Woods

Role: Diversity supplement fellow