



Jennifer Andrene Sequoia

Instructor, Pediatrics - Neonatology

CLINICAL OFFICE (PRIMARY)

- **Pediatric Neonatology**

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Bio

BIO

Jennifer Sequoia, MD, PhD is an Instructor in Neonatology at Stanford University. She completed her Neonatology Fellowship and Pediatrics Residency (Research Track) at Stanford. Prior to coming to Stanford she received her undergraduate and master's degrees from University of California, San Diego and her MD and PhD degrees from The University of Chicago. As faculty at Stanford, she is developing a research program to understand how endogenous cannabinoids impact preeclampsia and other perinatal diseases. She is broadly interested in how lipids mediate inflammatory programs and is working to develop new molecular tools to study lipids in their native environments.

CLINICAL FOCUS

- Neonatology
- Neonatal-Perinatal Medicine

ACADEMIC APPOINTMENTS

- Instructor, Pediatrics - Neonatology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Neonatology Fellowship (2025) CA
- Board Certification: Pediatrics, American Board of Pediatrics (2023)
- Residency: Stanford University Pediatric Residency at Lucile Packard Children's Hospital (2022) CA
- Medical Education: The University of Chicago Pritzker School of Medicine (2019) IL
- MD, The University of Chicago - Pritzker School of Medicine (2019)
- PhD, The University of Chicago , Immunology (2017)
- MS, University of California, San Diego , Chemistry (2010)
- BS, University of California, San Diego , Microbiology (2008)

Publications

PUBLICATIONS

- **Identification of bacteriophage DNA in human umbilical cord blood.** *JCI insight*
Sequoia, J. A., Haddock, N. L., Gay, P. M., Barkal, L. J., Narasimhan, P., Martinez, N., Winn, V. D., Bollyky, P. L.
2025; 10 (13)
- **Author Correction: AI-guided precision parenteral nutrition for neonatal intensive care units.** *Nature medicine*
Phongpreecha, T., Ghanem, M., Reiss, J. D., Oskotsky, T. T., Mataraso, S. J., De Francesco, D., Reincke, S. M., Espinosa, C., Chung, P., Ng, T., Costello, J. M., Sequoia, J. A., Razdan, et al
2025
- **AI-guided precision parenteral nutrition for neonatal intensive care units.** *Nature medicine*
Phongpreecha, T., Ghanem, M., Reiss, J. D., Oskotsky, T., Mataraso, S. J., De Francesco, D., Reincke, S. M., Espinosa, C., Chung, P., Ng, T., Costello, J. M., Sequoia, J. A., Razdan, et al
2025
- **Identification of bacteriophage DNA in human umbilical cord blood**
Sequoia, J., Haddock, N., Gay, P., Barkal, L., Winn, V., Bollyky, P.
AMER ASSOC IMMUNOLOGISTS.2024
- **Ezh2 Represses Transcription of Innate Lymphoid Genes in B Lymphocyte Progenitors and Maintains the B-2 Cell Fate** *JOURNAL OF IMMUNOLOGY*
Jacobsen, J. A., Bartom, E. T., Sigvardsson, M., Kee, B. L.
2020; 204 (7): 1760-1769
- **Peripheral T-Cell Lymphomas are Characterized by Transcriptionally Active FOXO3**
Parilla, M., Leukam, M., Kadri, S., Ritterhouse, L., Segal, J., Jacobsen, J., Kronic, M., Gurbuxani, S.
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- **Peripheral T-Cell Lymphomas are Characterized by Transcriptionally Active FOXO3**
Parilla, M., Leukam, M., Kadri, S., Ritterhouse, L., Segal, J., Jacobsen, J., Kronic, M., Gurbuxani, S.
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- **EZH2 Regulates the Developmental Timing of Effectors of the Pre-Antigen Receptor Checkpoints** *JOURNAL OF IMMUNOLOGY*
Jacobsen, J. A., Woodard, J., Mandal, M., Clark, M. R., Bartom, E. T., Sigvardsson, M., Kee, B. L.
2017; 198 (12): 4682-4691
- **EZH2 regulates cell cycle and survival in B and T lymphocyte progenitors**
Jacobsen, J., Woodard, J., Kee, B. L.
AMER ASSOC IMMUNOLOGISTS.2016
- **EZH2 in B lymphocyte commitment**
Jacobsen, J., Kee, B.
AMER ASSOC IMMUNOLOGISTS.2015
- **Identifying Chelators for Metalloprotein Inhibitors Using a Fragment-Based Approach** *JOURNAL OF MEDICINAL CHEMISTRY*
Jacobsen, J. A., Fullagar, J. L., Miller, M. T., Cohen, S. M.
2011; 54 (2): 591-602
- **Chelator Fragment Libraries for Targeting Metalloproteinases** *CHEMMEDCHEM*
Agrawal, A., Johnson, S. L., Jacobsen, J. A., Miller, M. T., Chen, L., Pellecchia, M., Cohen, S. M.
2010; 5 (2): 195-199
- **To bind zinc or not to bind zinc: An examination of innovative approaches to improved metalloproteinase inhibition** *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH*
Jacobsen, J. A., Jourden, J. L., Miller, M. T., Cohen, S. M.
2010; 1803 (1): 72-94

- **Hydrogen-bond rigidified BODIPY dyes** *DALTON TRANSACTIONS*
Jacobsen, J. A., Stork, J. R., Magde, D., Cohen, S. M.
2010; 39 (3): 957-962
- **Effects of Novel Semiselective Matrix Metalloproteinase Inhibitors on Ex Vivo Cardiac Structure-Function** *JOURNAL OF CARDIOVASCULAR PHARMACOLOGY*
Romero-Perez, D., Agrawal, A., Jacobsen, J., Yan, Y., Thomas, R., Cohen, S., Villarreal, F.
2009; 53 (6): 452-461
- **Thioamide Hydroxypyrothiones Supersede Amide Hydroxypyrothiones in Potency against Anthrax Lethal Factor** *JOURNAL OF MEDICINAL CHEMISTRY*
Agrawal, A., de Oliveira, C. A., Cheng, Y., Jacobsen, J. A., McCammon, J. A., Cohen, S. M.
2009; 52 (4): 1063-1074
- **Zinc-binding groups modulate selective inhibition of MMPs** *CHEMMEDCHEM*
Agrawal, A., Romero-Perez, D., Jacobsen, J. A., Villarreal, F. J., Cohen, S. M.
2008; 3 (5): 812-820