

**Nancy Yerkes Greenland, MD, PhD**  
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**University of California, San Francisco**

**CURRICULUM VITAE**

**EDUCATION:**

2010-2014	Stanford University	M.D.	School of Medicine
2005-2010	Massachusetts Institute of Technology	Ph.D.	Chemistry
2001-2005	Columbia University	B.A.	Chemistry

**LICENSES, CERTIFICATION:**

2016-current California Medical License, A141071

2018-current Board Certification, Anatomic and Clinical Pathology

2019-current Board Certification, Cytopathology

**PRINCIPAL POSITIONS HELD:**

11/2019-current	University of California, San Francisco	Assistant Professor	San Francisco Veterans Affairs Medical Center
7/2019-11/2019	University of California, San Francisco	Surgical Pathology Fellow	Anatomic Pathology, Surgical Pathology
7/2018-6/2019	University of California, San Francisco	Cytopathology Fellow	Anatomic Pathology, Cytopathology Division
7/2014-6/2018	University of California, San Francisco	Resident Physician	Anatomic Pathology & Laboratory Medicine

**HONORS AND AWARDS:**

2005	Graduated <i>Magna cum laude</i> with Departmental Honors in Chemistry	Columbia University
2005	Jean Dreyfuss Boussevain Undergraduate Scholarship for Excellence in Chemistry	Columbia University
2001-2005	Dean's List, all eight semesters	Columbia University

**KEYWORDS/AREAS OF INTEREST:**

Cytopathology, Genitourinary pathology, Molecular pathology.

## PROFESSIONAL ORGANIZATIONS

### Memberships

2014-present United States and Canadian Academy of Pathologists (USCAP), member.

2015-present College of American Pathologists (CAP), member.

## TEACHING AND MENTORING

### Courses taught

2015-2016	Pathology Small Group Instructor, UCSF	Small group instructor for teaching sessions on hematology, cardiac, pulmonary, and renal pathology for UCSF medical students.
2011	Teaching Assistant, Genetics, Stanford University School of Medicine	Teaching assistant for human molecular genetics course. Organized review sessions, held office hours, and composed problem sets and exams.
2009	Head Teaching Assistant, Organic Chemistry, Massachusetts Institute of Technology	Oversaw eight teaching assistants for the first semester organic chemistry course. Led review sessions, held office hours, and edited problem sets and exams.
2005-2006	Teaching Assistant, Organic Chemistry, Massachusetts Institute of Technology	Teaching assistant for the first semester organic chemistry course. Conducted recitation sessions, held office hours, and graded exams and homework assignments.
2003-2004	Volunteer Tutor, Columbia University Double Discovery Center	Taught science and mathematics to underprivileged New York City high school students.

### Informal Teaching:

2018-2019 Created cytopathology cases of the week for UCSF pathology residents, taking photographs of cytopathology cases and writing explanations of the cytopathologic findings.

2009-2010 Resident tutor in chemistry at Pforzheimer House, Harvard University.

## MENTORING

2006-2009	Women in Chemistry, Chemistry Department, Massachusetts Institute of Technology	Mentored first-year female chemistry Ph.D. students.
2008-2010	Professor Sarah O'Connor's Laboratory, Chemistry Department, Massachusetts Institute of Technology	Mentored two undergraduate students in the laboratory.
2009-2010	Pforzheimer House, Harvard University	Sophomore adviser to seven undergraduate students.

## RESEARCH AND CREATIVE ACTIVITIES

### PEER REVIEWED PUBLICATIONS:

1. **Nancy Y. Greenland**, Li Zhang, Janet Cowan, Peter R. Carroll, Bradley A. Stohr, Jeffry P. Simko. Correlation of a Commercial Genomic Risk Classifier with Histologic Patterns in Prostate Cancer. *The Journal of Urology* 2019 Jul; 202(1): 90-95. PMID 30810466.
2. John R. Greenland, Ping Wang, Joshua J. Brotman, Rahul Ahuja, Tiffany A. Chong, Mary Ellen Kleinhenz, Lorriana E. Leard, Jeffrey A. Golden, Steven R. Hays, Jasleen Kukreja, Jonathan P. Singer, Kirk Jones, Zoltan Lasik, Neil N. Trivedi, **Nancy Y. Greenland**, Paul Blanc. Gene signatures common to allograft rejection are associated with lymphocytic bronchitis. *Clinical Transplantation* 2019 May; 33(5). PMID: 30849195.
3. Cristina L. Abrahams, Xiaofan Li, Millicent Embry, Abigail Yu, Stellanie Krimm, Sarah Krueger, **Nancy Y. Greenland**, Kwun Wah Wen, Christopher Jones, Venita DeAlmeida, Willy A. Solis, Shannon Matheny, Toni Kline, Alice Y. Yam, Ryan Stafford, Arun P. Wiita, Trevor Hallam, Mark Lupher, Arturo Molina. Targeting CD74 in multiple myeloma with the novel, site-specific antibody-drug conjugate STRO-001. *Oncotarget* 2018 Dec; 9(102): 37700-37714. PMID 30701025.
4. Su-Yang Liu, Nancy Joseph, Ajay Ravindranathan, Bradley Stohr, **Nancy Greenland**, Poonam Vohra, Elizabeth Hosfield, Iwei Yeh, Eric Talevich, Courtney Onodera, Jessica Van Ziffle, James P. Grenert, Boris Bastian, Yunn-Yi Chen, and Gregor Krings. Genomic profiling of malignant phyllodes tumors reveals aberrations in FGFR1 and PI-3 kinase/RAS signaling pathways and provides insights into intratumoral heterogeneity. *Modern Pathology* 2016 Sep; 29(9): 1012-1027. PMID: 27255162.
5. Hyang-Yeol Lee, **Nancy Yerkes**, Peter Bernhardt, Sarah E. O'Connor. Aza-tryptamine substrates in natural product biosynthesis. *Chemistry and Biology* 2009 Dec; 16(12): 1225-1229. PMID: 20064432.
6. Peter Bernhardt\*, **Nancy Yerkes\***, Sarah E. O'Connor. Bypassing stereoselectivity in the early steps of alkaloid biosynthesis. *Organic and Biomolecular Chemistry* 2009 Oct; 7(20): 4166-4168. PMID: 19795053. (\*co-first authors).
7. **Nancy Yerkes**, Jia Xin Wu, Elizabeth McCoy, M. Carmen Galan, Shi Chen, Sarah E. O'Connor. Substrate specificity and diastereoselectivity of strictosidine glucosidase, a key enzyme in monoterpene indole alkaloid biosynthesis. *Bioorganic and Medicinal Chemistry Letters* 2008 May; 18(10): 3095-3098. PMID: 18061449.
8. Wenjun Zhou, **Nancy Yerkes**, Jason J. Chruma, Lei Lu, Ronald Breslow. Chiral polyamines from reduction of polypeptides: asymmetric pyridoxamine-mediated transaminations. *Bioorganic and Medicinal Chemistry Letters* 2005 Mar; 15(5): 1351-1355. PMID: 15713385.

### RESEARCH PRESENTATIONS:

1. **Nancy Y. Greenland**, Janet E. Cowan, Emily Chan, Peter R. Carroll, Bradley A. Stohr, Jeffry P. Simko. "Evaluation of Histopathologic Features in Biopsies in which a Molecular Classifier Test Resulted in a Change in NCCN Category". Poster Presentation, UCSF

Prostate Cancer Program 2019 Scientific Retreat, San Francisco, California, November 2019.

2. **Nancy Y. Greenland**, Janet E. Cowan, Li Zhang, Peter R. Carroll, Emily Chan, Bradley A. Stohr, Jeffrey P. Simko. "Expansile Cribriform Pattern 4 has Worse Pathologic Outcomes at Prostatectomy than Glomerulation Pattern 4 for Men Treated for Prostate Cancer". Platform Presentation, Western Section of the American Urological Association, Annual Meeting, Monterey, California, November 2019.
3. Emily Chan, Janet E. Cowan, **Nancy Y. Greenland**, Samuel L. Washington, Kyle B. Zuniga, Bradley A. Stohr, Jeffrey P. Simko, Peter R. Carroll. "Expansile Cribriform pattern in Men with Gleason Score 7 Prostatic Adenocarcinoma on Biopsies in an Active Surveillance Cohort is Associated with Adverse Pathology at Radical Prostatectomy". Platform Presentation, Western Section of the American Urological Association, Annual Meeting, Monterey, California, November 2019.
4. Kyle B. Zuniga, Samuel L. Washington, Jeffrey P. Simko, **Nancy Y. Greenland**, Emily Chan, Bradley A. Stohr, Janet E. Cowan, Martina Maggi, Peter R. Carroll. "Expansile cribriform subtype at biopsy predicts adverse pathology at radical prostatectomy". Poster Presentation, Western Section of the American Urological Association, Annual Meeting, Monterey, California, November 2019.
5. John R. Greenland, Ping Wang, Joshua J. Brotman, Rahul Ahuja, Tiffany A. Chong, Mary Ellen Kleinhenz, Lorriana E. Leard, Jeffrey A. Golden, Steven R. Hays, Jonathan P. Singer, Jasleen Kukreja, **Nancy Y. Greenland**, Zoltan Laszik, Paul Blanc. "A Metagene Signature for Lymphocytic Bronchitis Following Lung Transplantation". Platform Presentation, American Transplant Congress, Boston, Massachusetts, June 2019.
6. Kyle B. Zuniga, Samuel L. Washington III, Jeffrey P. Simko, **Nancy Y. Greenland**, Bradley Stohr, Janet E. Cowan, Imelda Tenggara, June M Chan, Matthew R. Cooperberg, Peter R. Carroll. "Cribriform pattern, genomic prostate score, and adverse pathology at radical prostatectomy in a cohort of prostate cancer patients initially on active surveillance." Poster Presentation, Genitourinary American Society of Clinical Oncology, Annual Meeting, San Francisco, California, February 2019.
7. **Nancy Y. Greenland**, Li Zhang, Janet Cowan, Peter Carroll, Bradley Stohr, Jeffrey Simko. "Expansile Cribriform Gleason Pattern 4 has Worse Outcomes at Prostatectomy than Glomerulation Gleason Pattern 4." Platform Presentation, United States and Canadian Academy of Pathology, Annual Meeting, Fort Washington, Maryland, March 2019.
8. **Nancy Y. Greenland**, Ping Wang, Tiffany A. Chong, Jonathan Singer, G. Zoltan Laszik, Kirk D. Jones, John Greenland. "Solid organ rejection gene signature changes across lung allograft rejection pathologies." Poster Presentation, United States and Canadian Academy of Pathology, Annual Meeting, Fort Washington, Maryland, March 2019.
9. **Nancy Y. Greenland**, Li Zhang, Peter Carroll, Bradley Stohr, Jeffrey Simko. "Expansile Cribriform Gleason Pattern 4 has Worse Outcomes at Prostatectomy than Glomerulation Gleason Pattern 4." Poster Presentation, UCSF Prostate Cancer Program Research Retreat, San Francisco, California, November 2018.
10. **Nancy Greenland**, Jessica Van Ziffle, Sonam Prakash, Linlin Wang. "Genomic Analysis in Myeloid Sarcoma and Comparison with Paired Acute Myeloid Leukemia." Poster

Presentation, United States and Canadian Academy of Pathology, Annual Meeting, Vancouver, Canada, March 2018.

11. Millicent Embry, Xiaofan Li, Abigail Yu, Cristina Abrahams, **Nancy Greenland**, Kwun Wah Wen, Christopher Jones, Venita DeAlmeida, Stellanie Krimm, Sarah Krueger, Shannon Matheny, Toni Kline, Alice Yam, Ryan Stafford, Arun Wiita, Trevor Hallam, Mark Lupher, Arturo Molina. "CD74 in Expressed in Relapsed and Refractory Multiple Myeloma and Can Be Targeted with a Novel Anti-CD74 Antibody Drug Conjugate, STRO-001." Poster Presentation, American Society of Hematology Annual Meeting and Exposition, Atlanta, Georgia, December 2017.
12. **Nancy Greenland**, Bradley Stohr, Jeffry Simko. "Association of Genomic Prostate Scores (GPS) with Prostatectomy Rates and Pathology at the Time of Prostatectomy." Poster Presentation, United States and Canadian Academy of Pathology, Annual Meeting, San Antonio, Texas, March 2017.
13. **Nancy Greenland**, Li Zhang, Bradley Stohr, Jeffry Simko. "Value of a Genomic Risk Classifier (GPS Score) in Relation to Histopathologic Parameters." Poster Presentation, UCSF Prostate Cancer Program Research Retreat, San Francisco, California, October 2016.
14. **Nancy Greenland**, Ajay Ravindranathan, Morgan Diolaiti, Beth Cimini, Bradley Stohr. "In Situ Evaluation of Telomerase Expression and Function in Human Cells and Tissues." Platform Presentation, United States and Canadian Academy of Pathology, Annual Meeting, Seattle, Washington, March 2016.
15. **Nancy Greenland**, Li Zhang, Bradley Stohr, Jeffry Simko. "Correlation of a Commercial Genomic Risk Classifier (GPS Score) with Histopathologic Parameters in Prostate Cancer." Poster Presentation, United States and Canadian Academy of Pathology, Annual Meeting, Seattle, Washington, March 2016.
16. **Nancy Yerkes**, Mindy Tsai, See-Ying Tam, Stephen Galli. "Role of mast cell-associated RABGEF-1 in IgE-dependent immune responses *in vivo*." Poster Presentation, Stanford University School of Medicine Scholarly Concentration Symposium, Stanford, California, May 2012.
17. **Nancy Yerkes**, Wenjun Zhou, Jason J. Chruma, Lei Lu, Ronald Breslow. "Peptide-derived oligamine reagents as transaminase mimics." Poster Presentation, American Chemical Society, San Diego, California, March 2005.

#### **OTHER ACTIVITIES:**

- 2010-2013     Arbor Free Clinic, Stanford University  
Interviewed, counseled, and examined patients at Stanford's Arbor Free Clinic, an acute-care clinic providing free medical care for adults who lack health insurance.
- 2011-2012     Bike Safety Awareness Organizer, Stanford University  
Teamed with two other medical students to increase bicycle safety awareness at the medical school. Successfully arranged for the provision of free helmets and lights to the 2011 entering medical school class.
- 2009-2010     Resident Tutor, Pforzheimer House, Harvard University

As a resident tutor in one of the undergraduate houses at Harvard, I tutored students in chemistry, served as a sophomore adviser to seven students, and was a resident adviser.

2001-2003 Clarinetist in the Columbia University Orchestra.

2000-2003 Clarinet Teacher and Counselor at Greenwood Music Camp, Cummington, Massachusetts.

#### **LOCAL ORAL PRESENTATIONS:**

1. UCSF Pathology Department, Mechanisms of Disease Conference, 2/28/2019. Title: "Treatment-emergent neuroendocrine prostate cancer."
2. UCSF Pathology Department, Mechanisms of Disease Conference, 10/19/2017. Title: "Constrictive Bronchiolitis."
3. UCSF Pathology Department, Mechanisms of Disease Conference, 1/5/2017. Title: "Prader-Willi Syndrome."
4. San Francisco General Hospital, Hematology, 12/20/2016. Title: "Sickle cell disease."
5. UCSF, Immunology, 7/14/2016. Title: "Prostate cancer screening and new genomic tests for prostate cancer."
6. UCSF Pathology Department, Mechanisms of Disease Conference, 4/7/2016. Title: "Correlation of a Genomic Risk Classifier with Histopathologic Parameters in Prostate Cancer."
7. UCSF, Hematology, 6/23/2016. Title: "Sickle cell disease."
8. San Francisco General Hospital, Chemistry Department, 4/26/2016. Title: "Prostate cancer screening and new genomic tests for prostate cancer."
9. UCSF Pathology Department, Mechanisms of Disease Conference, 10/15/2015. Title: "Dyskeratosis congenita."
10. San Francisco Veterans Affairs Medical Center, Laboratory Medicine Department, 2/24/2015. Title: "Sickle cell disease."
11. UCSF, Cytogenetics Department, 10/22/2015. Title: "Dyskeratosis congenita."
12. San Francisco General Hospital, Microbiology Department, 8/24/2015. Title: "Measles."
13. UCSF Pathology Department, Mechanisms of Disease Conference, 4/2/2015. Title: "Placenta percreta: potential catastrophe."