

## Sanjay R Srivatsan

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CONTACT INFORMATION sanjays@uw.edu

RESEARCH INTERESTS Structure Function Relationships in Biological Systems, Control of Gene Regulatory Networks, Antigen Receptor Diversity in Immune Responses, Data and Computation

EDUCATION **University of Washington**, Seattle, WA  
M.D. Ph.D program (*in progress*), Entering Class of 2014

- PhD Rotations: David Baker, Ph.D - Developing Methods for Structure Prediction of Cyclic Peptides

**University of California Berkley**, Berkeley, CA  
B.S., Bioengineering- Cell and Tissue Engineering (*focus*), May 2012

- GPA: 3.91 *Magna Cum Laude*

RESEARCH EXPERIENCE **Research Fellow** June 2012 to May 2014  
National Institutes of Health, NIAID  
Bethesda, Maryland  
Supervisors: Tongqing Zhou, Ph.D and Peter D. Kwong, Ph.D

**Undergraduate Research Assistant** Jan 2012 to June 2012  
Department of Radiology,  
University of San Francisco  
Supervisor: Xiaojuan Li, Ph.D

**Research Assistant** May 2010 to Aug 2010  
**SURE Fellow** May 2011 to Jan 2012  
Department of Pathology,  
Emory University  
Supervisor: Periasamy Selvaraj, Ph.D

**Research Assistant** May 2010 to Aug 2010  
Department of Molecular and Cell Biology,  
UC Berkeley  
Supervisors: Venice Chiueh, Ph.D and Steve G. Martin, Ph.D

PUBLICATIONS

1. Mclellan JS, Chen M, Joyce MG, et al. Structure-based design of a fusion glycoprotein vaccine for respiratory syncytial virus. *Science*. 2013;342(6158):592-8.
2. Zhou T, Zhu J, Yang Y, et al. Transplanting supersites of HIV-1 vulnerability. *PLoS ONE*. 2014;9(7):e99881.
3. Srivatsan S, Patel JM, Bozeman EN, et al. Allogeneic tumor cell vaccines: the promise and limitations in clinical trials. *Hum Vaccin Immunother*. 2014;10(1):52-63.
4. Georgiev IS, Doria-rose NA, Zhou T, et al. Delineating antibody recognition in polyclonal sera from patterns of HIV-1 isolate neutralization. *Science*. 2013;340(6133):751-6.
5. Liao HX, Lynch R, Zhou T, et al. Co-evolution of a broadly neutralizing HIV-1 antibody and founder virus. *Nature*. 2013;496(7446):469-76.

6. Bozeman EN, Srivatsan S, Mohammadi H, Daniels D, Shashidharamurthy R, Selvaraj P. Ukrain, a plant derived semi-synthetic compound, exerts antitumor effects against murine and human breast cancer and induce protective antitumor immunity in mice. *Exp Oncol.* 2012;34(4):340-7.
7. Shashidharamurthy R, Machiah D, Bozeman EN, et al. Hydrodynamic delivery of plasmid DNA encoding human Fc $\gamma$ R-Ig dimers blocks immune-complex mediated inflammation in mice. *Gene Ther.* 2012;19(9):877-85.

PATENTS

1. Kwong, Peter D., Barney Graham, Jason McLellan, Jeffery Boyington, Ivelin S. Georgiev, Michael G. Joyce, Masaru Kanekiyo, Marie Pancera, Cinque Soto, Sanjay Srivatsan, and Baoshan Zhang. Prefusion RSV F Proteins and Their Use. Patent 20140271699. 18 Sept. 2014. Print.

PRESENTATIONS

HIV Meetings

- Mid-Atlantic Crystallography Meeting, Shady Grove, MD Apr, 2014
- Keystone Symposia for HIV-1 Vaccines, Banff, Canada Mar 2014
  - Structural analysis of longitudinal antibodies uncovers the evolution of the VRC01-lineage (Poster Presentation)
- International AIDS Vaccine Meeting , Barcelona, Spain Oct 2013
  - Characterization of Scaffolded V3-Glycopeptides for Use as HIV-1 Immunogens (Published Abstract)
- GROMACS Workshop and Conference, Charlottesville, VA Sept 2013
- Keystone Symposia for HIV-1 Vaccines, Keystone, CO Feb 2013
  - Structure-based design of scaffold immunogens with high affinity to antibody PGT128 (Poster Presentation)

LABORATORY SKILLS

In vitro:

- Cell Culture, Cell Line Establishment, Immunoassays, Plasmid Design, Plasmid Subcloning, Protein Purification, Affinity Measurements (Biacore, ITC, Octet)

In vivo (Mouse Model):

- Injections (*s.c.*, *i.p.*, *i.m.*, *i.v.*), Blood Draws, Vaccination Challenge Studies, Dissection and Organ Recovery

COMPUTATIONAL SKILLS

Scripting Languages:

- Python, UNIX shell scripting, R, Matlab, Java, HTML

Other:

- Pymol, Phenix, Rosetta