

**Curriculum Vitae**  
Jean Soonmyong Oak  
Clinical Assistant Professor  
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**Education and Training**

- 7/2016-6/2017 **Fellow in Transfusion Medicine**, Stanford University, Stanford, CA 94305
- 7/2015-6/2016 **Fellow in Hematopathology**, Stanford University, Stanford, CA 94305
- 7/2011-6/2015 **Resident in Anatomic and Clinical Pathology**, Stanford University, Stanford, CA 94305
- 7/2010-6/2011 **Postdoctoral Fellow**, Department of Molecular Biology and Biochemistry, University of California, Irvine, CA
- 6/2010 **Doctor of Medicine**, University of California, Irvine, CA
- 6/2008 **Doctor of Philosophy**, Biological Sciences – University of California, Irvine, Department of Molecular Biology and Biochemistry
- 4/2002 **Bachelor of Sciences**, Biochemistry-University of California, Los Angeles, CA

**Certifications**

- 2016 American Board of Pathology – Hematology
- 2016 Inspection Team Member Training, College of American Pathologist
- 2016 LMD: Leading the Laboratory, College of American Pathologist
- 2016 Test Utilization for Residents, College of American Pathologist
- 2016 Inspection Team Leader Training, College of American Pathologist
- 2015 American Board of Pathology – Anatomic and Clinical pathology
- 2012 California medical license

**Grants and Awards**

- 2011 Sjögren's' Syndrome Foundation Research Grant
- 2010 UCI Eagle Eye Award
- 2010 UCI Vincent P. Carroll, Jr. Memorial Research Award
- 2006-2008 NIH training grant T32 AI060573
- 2005-2007 Achievement Rewards for College Scientists

**Teaching and Lectures**

- 2017 **California Blood Bank Society, Annual Meeting:** Passenger Lymphocyte Syndrome
- 2016 **California Blood Bank Society, CLS Regional Seminar:** HLA/Platelet serology workups
- 2016 **Stanford Hematology/Pathology conference:** Delayed hemolytic transfusion reactions
- 2016 **Stanford Pathology, Clinical Pathology Lecture:** Hemolytic anemias
- 2016 **Stanford Pathology, Resident Board Review:** Coagulation
- 2016 **Stanford Hematology/Pathology conference:** Laboratory test utilization in acute myeloid leukemia
- 2015 **Stanford Pathology, Clinical Pathology Lecture:** Flow Cytometry

	Approach
2014	<b>Stanford Pathology, Current Concepts in the Pathologic Basis and Diagnosis of Disease:</b> Update on the Ebola outbreak and the challenges regarding its control and treatment
2014	<b>Stanford Internal Medicine, Intern Report:</b> Sickle Cell Anemia
2013	<b>Stanford Pathology, Current Concepts in the Pathologic Basis and Diagnosis of Disease:</b> Salt and autoimmunity - another hit against the modern high-sodium diet
2012	<b>South Bay Pathology Case Presentation:</b> Malignant Triton Tumor
2012	<b>Stanford Pathology, Current Concepts in the Pathologic Basis and Diagnosis of Disease:</b> The overlooked role of gut microbiota in human disease
2012	<b>Stanford Pathology, Current Concepts in the Pathologic Basis and Diagnosis of Disease:</b> CAL-101: Targeting PI3K signaling in chronic lymphocytic leukemia
2011-present	<b>Pathologist proctor for Stanford University Medical School, Human Health and Disease:</b> Hemolytic anemia, myeloid disorders, transfusion medicine, renal pathology, GI pathology
2003-2009	Group and individual pathology tutor for second year medical students, University of California, Irvine, School of Medicine

### Professional Societies

2017	AABB
2016	California Blood Bank Society
2016	United States and Canadian Academy of Pathology
2015	College of American Pathologists
2011	Stanford Society of Physician Scholars

### Research experience

1/2011- 6/2011	David Fruman Laboratory, University of California, Irvine, Department of Molecular Biology and Biochemistry: Class IA PI3K in regulatory T cell differentiation
7/2010- 12/2010	Thomas Lane Laboratory, University of California, Irvine, Department of Molecular Biology and Biochemistry: IL-27-deficient T cells in acute viral encephalomyelitis
9/2004- 6/2008	David Fruman Laboratory, University of California, Irvine, Department of Molecular Biology and Biochemistry: Class IA PI3K in lymphocyte development, function, and autoimmunity
8/2000- 4/2002	Han Htun Laboratory, University of California, Los Angeles, Department of Obstetrics and Gynecology: DNA sequence specificity of steroid receptors using real-time confocal microscopy.

### Peer-reviewed publications

1. Nahid Shahmarvand N, **Oak JS**, Alcasid M, Cascio MJ, Goodman E, Medeiros BC, Arber DA, Zehnder JL, Ohgami RS. A study of disseminated intravascular

- coagulation in acute leukemia reveals markedly elevated D-dimer levels are a sensitive indicator of acute promyelocytic leukemia. *International Journal of Laboratory Hematology*, in press.
2. Geyer JT, Tam W, Liu Y, Chen Z, Wang SA, Bueso-Ramos C, **Oak J**, Arber DA, His E, Levinson K, Bagg A, Hassane DC, Hasserjian RP, Orazi A. Oligomonocytic Chronic Myelomonocytic Leukemia (CMML without absolute Monocytosis) displays a similar mutational profile to Classical CMML with frequent ASXL1, TET2 and SRSF2 mutations. *Modern Pathology*, in press.
  3. Margolskee E, Hasserjian RP, Hassani D, Tam W, Mathew S, Ok C, Wang S, **Oak J**, Arber DA, Orazi A. Myelodysplastic syndrome, unclassifiable (MDS-U) with 1% blasts is a distinct subgroup of MDS-U with a poor prognosis. *American Journal of Clinical Pathology*, in press.
  4. Walavalkar V, **Oak J**, Gu M. Cytological diagnosis of extranodal NK/T-cell lymphoma, nasal type, in cerebrospinal fluid. *Cytopathology*. 2013 Oct;24(5):342-4
  5. So L, Yea SS, **Oak JS**, Lu M, Manmadhan A, Ke QH, Janes MR, Kessler LV, Kucharsky JM, Li LS, Martin MB, Ren P, Jessen KA, Liu Y, Rommel C, Fruman DA. Selective inhibition of phosphoinositide 3-kinase p110 $\alpha$  preserves lymphocyte function. *J Biol Chem*. 2013 Feb 22;288(8):5718-31.
  6. Tirotta E, Duncker P, **Oak J**, Klaus S, Tsukamoto MR, Gov L, Lane TE. Epstein-Barr virus-induced gene 3 negatively regulates neuroinflammation and T cell activation following coronavirus-induced encephalomyelitis. *J Neuroimmunol*. 2013 Jan 15;254(1-2):110-6.
  7. Soyfoo MS, Konno A, Bolaky N, **Oak JS**, Fruman D, Nicaise C, Takiguchi M, Delporte C. Link between inflammation and aquaporin-5 distribution in submandibular gland in Sjögren's syndrome? *Oral Dis*. 2012 Sep;18(6):568-74.
  8. **Oak JS**, Peralta RQ, Deane JA, Fruman DA. The p85b regulatory subunit of phosphoinositide 3-kinase has unique and redundant functions in B cells. *Autoimmunity*. 2009 Aug;42(5):447-58.
  9. de Souza AJ, **Oak JS**, Jordanhazy R, DeKruyff RH, Fruman DA, Kane LP. Tim-1 co-stimulatory activity requires recruitment of PI3 kinase. *J Immunol*. 2008 May;180(10):6518-26.
  10. Ma C, Li C, Ganesan L, **Oak J**, Tsai S, Sept D, Morrissette NS. Mutations in  $\alpha$ -tubulin confer dinitroaniline resistance at a cost to microtubule function. *Mol Biol Cell*, 2007 Dec;18(12):4711-20.
  11. Deane JA, Kharas MG, **Oak JS**, Stiles LN, Moore TI, Luo J, Cantley LC, Lane TE, Fruman DA. T cell function is partially maintained in the absence of class IA Phosphoinositide 3-kinase signaling. *Blood*, 2007. 109: 2894-902.
  12. **Oak JS**, Deane JA, Kharas MG, Luo J, Lane TE, Cantley LC, Fruman DA. Sjögren's syndrome-like disease in mice with T cells lacking class 1A phosphoinositide-3-kinase. *Proc. Natl. Acad. Sci. USA*, 2006. 103(45):16882-7
  13. Hess KL, Donahue AC, Ng KL, Moore TI, **Oak J**, Fruman DA. Frontline: The p85 $\alpha$  isoform of phosphoinositide 3-kinase is essential for a subset of B cell receptor-initiated signaling responses. *Eur J Immunol*, 2004. 34(11): p. 2968-76.

### Invited review articles

1. **Oak JS**, Ohgami RS. Focusing on frequent ASXL1 mutations in myeloid neoplasms, and considering rarer ASXL2 and ASXL3 mutations. *Current Medical Research & Opinion*, 2017 Jan 18:1-5. Epub ahead of print.
2. **Oak JS**, Fruman DA. Phosphoinositide 3-kinase signaling in T cells: balancing activation and autoimmunity. *Autoimmunity*, 2007. 40(6): 433-41.
3. **Oak JS**, Matheu MP, Parker I, Cahalan MD, Fruman DA. Lymphocyte cell motility: the twisting, turning tale of phosphoinositide 3-kinase. *Biochem. Soc. Trans.*, 2007.35: 1109-13.

### **Selected conference presentations**

1. Oak JS, Hoffmann J, Chisholm KM, Chen J, Zehnder JL, Arber DA, Natkunam Y, Warnke RA, Ohgami RS. *A retrospective study of 305 cases of angioimmunoblastic T-cell lymphoma with emphasis on B- and plasma cell proliferations*. Platform presentation for United States & Canadian Academy of Pathology (USCAP) Annual Meeting, March 2017.
2. Oak JS, Shahmarvand N, Alcasid M, Cascio MJ, Goodman E, Medeiros BC, Arber DA, Zehnder JL, Ohgami RS. *A study of disseminated intravascular coagulation in acute leukemia reveals markedly elevated D-dimer levels are a sensitive indicator of acute promyelocytic leukemia*. Poster presentation for USCAP Annual Meeting, March 2017.
3. Oak JS, Raess PW, Foley CS, Ohgami RS, Cascio MJ. *c-Myc Protein Expression Distinguishes Plasma Cell Myeloma from Solitary Plasmacytoma and is Associated with Aggressive Morphologic Features*. Poster presentation for USCAP Annual Meeting, March 2017.
4. Oak JS, Tirotta E, Gov L, and Lane TE. *The role of IL-27 in CD8-mediated antiviral response in the central nervous system*. Platform presentation at the UCI Immunology Fair, November 2010.
5. Oak JS, Luo J, Cantley LC, and Fruman DA. *Central and peripheral T cell tolerance defects in a novel mouse model of Sjögren's Syndrome*. Poster presentation at the 12th International Conference on Lymphocyte Activation and Immune Regulation, February 2008
6. Oak JS, Deane JA, Luo J, Cantley LC, and Fruman DA. *A role for phosphoinositide 3-kinase p85 $\beta$  in B cell development and function*. Poster presentation at Biology of B Cells in Health and Disease at Keystone Symposia, February 2007
7. Oak JS, Kharas MG, Deane JA, Stiles LN, Luo J, Cantley LC, Lane TE and Fruman DA. *Deletion of Class IA Phosphoinositide 3-kinase Leads to Dysregulation of T cell Tolerance and the Development of Primary Sjögren's syndrome*. Poster presentation at Gene Expression and Signaling in the Immune System at Cold Spring Harbor, April 2006