

# SEBASTIAN JOHNSON SASU, M.D.

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Board Certified Physician and Surgeon with specialization in Anatomic and Clinical Pathology, and Hematopathology. Considerable experience in both anatomic and clinical pathology as well as laboratory-based research, with expertise in tissue diagnosis, cellular and molecular biology, both at the theoretical and practical level. Additional in-depth knowledge of immunohistochemistry, and ancillary diagnostic techniques such as flow cytometry, fluorescence in situ hybridization (FISH), conventional cytogenetics and molecular testing.

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## EDUCATION / LICENSURE

Diplomate, American Board of Pathology – Hematopathology	2007
Diplomate, American Board of Pathology – Anatomical and Clinical Pathology	2006
Physician and Surgeon License – Medical Board of California	2004
MD – “Iuliu Hatieganu” University of Medicine and Pharmacy, Cluj, Romania	1990 – 1996

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## CLINICAL AND LEADERSHIP EXPERIENCE

ALTA BATES SUMMIT MEDICAL CENTER, BERKELEY, CA	2014 – CURRENT
<b>CHIEF OF PATHOLOGY SERVICES, ALTA BATES SUMMIT MEDICAL CENTER</b>	01/2016-CURRENT
<b>PRESIDENT, ALTA EAST BAY PATHOLOGY, INC.</b>	12/2015-CURRENT
<b>STAFF PATHOLOGIST AND HEMATOPATHOLOGIST</b>	01/2014-CURRENT
<ul style="list-style-type: none"><li>- Provide expert diagnostic and consultation services in all aspects of pathology and disease pathogenesis, with emphasis on hematological disorders, as well as surgical oncology of various organ systems, such as breast, gastrointestinal, gynecologic, lung and others.</li><li>▪ Medical Director of the Hematology and Clinical Chemistry laboratory.</li><li>▪ Medical Director of Anatomic Pathology</li><li>▪ Collaborate with scientists at the Children’s Hospital of Oakland Research Institute on breast cancer research</li><li>▪ Interpret ancillary diagnostic techniques, such as flow cytometry, fluorescence in situ hybridization (FISH), and molecular studies.</li></ul>	
ST. JOHN’S HEALTH CENTER AND THE JOHN WAYNE CANCER INSTITUTE, Santa Monica, CA	2007 – 2013
<b>Staff Pathologist and Section Head, Hematopathology</b>	2007 - 2013
<b>Associate Professor, John Wayne Cancer Institute</b>	2013 - 2014
<ul style="list-style-type: none"><li>▪ Provide expert diagnostic and consultation services in all aspects of pathology and disease pathogenesis, with emphasis on hematological disorders, as well as surgical oncology of various organ systems, such as breast, lung, skin, and others.</li><li>▪ Collaborate closely with several preeminent surgical oncologists at the John Wayne Cancer Center, focusing on gastro-intestinal pathology, lung, and breast pathology as well as neoplastic skin disorders; significant exposure to ENT, neurologic, gynecologic, and GU pathology.</li><li>▪ Manage day-to-day operations of the clinical hematology, coagulation, and flow cytometry laboratory.</li><li>▪ Provide supervision and guidance for technical staff of nine clinical laboratory specialists, as well as clinical consultations in laboratory-related issues.</li><li>▪ Perform tissue diagnosis, immunohistochemistry, as well as ancillary diagnostic techniques, such as flow cytometry, fluorescence in situ hybridization (FISH), and cytogenetic result interpretation.</li></ul>	
PATHOLOGY LABORATORIES, Santa Monica, CA	2011 – 2013
<b>Medical Director</b>	
<ul style="list-style-type: none"><li>▪ Charles Frankel, M.D., Inc</li><li>▪ Marc Wishingrad, M.D., Inc</li></ul>	

COLLEGE OF AMERICAN PATHOLOGISTS

2010 – Present

**Inspector / Team Leader for the peer-driven Laboratory Accreditation Program**

- Inspect assigned clinical laboratories and evaluate their medical directors.
- Conduct inspections aided by a team of 8-9 senior clinical laboratory specialists.

ST. JOHN'S HOSPITAL, Santa Monica, CA

**Thoracic Oncology Tumor Board (2010-2013)**

**Moderator, Monthly General Tumor Board (2008-2010)**

- Lead and participate in forums that bring together clinical and surgical specialties to discuss patient diagnosis and management, as well as eligibility for clinical trials.

PFIZER INC., Denver, CO

2010

**Member of the Western US Regional Advisory Board**

- Advised in preparation for the launch of Crizotinib – an anti-cancer drug for the treatment of patients with locally advanced or metastatic non-small cell lung cancer.

UNIVERSITY OF CALIFORNIA, Los Angeles, CA

2006 – 2007

DAVID GEFLEN SCHOOL OF MEDICINE, DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE

**Clinical Fellowship – Hematopathology**

- Gained expertise in tissue diagnosis of hematological disorders, as well as ancillary flow cytometry, cytogenetics, and FISH techniques.

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, CA

2002 – 2006

LAC+USC MEDICAL CENTER, DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE

**Residency – Pathology, Anatomical, and Clinical**

- Gained expertise in surgical pathology, including tissue diagnosis and immunohistochemistry, and clinical pathology, including clinical chemistry, microbiology, immunology, and transfusion medicine.
- Focused on hematology, including elective rotations in hematopathology, the clinical coagulation consult service, and the Clinic for Hematological Disorders.

ALZHEIMER DISEASE RESEARCH CENTER, USC SCHOOL OF MEDICINE, Los Angeles, CA

2002 – 2003

**Autopsy and Brain Dissection**

BRIGHAM AND WOMEN'S HOSPITAL, HARVARD MEDICAL SCHOOL, Boston, MA

1999

**Clinical Clerkship, Nephrology Consult Service** – elective one month rotation

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**RESEARCH EXPERIENCE**

CHILDREN'S HOSPITAL OF OAKLAND RESEARCH INSTITUTE (CHORI), OAKLAND, CA

**Research Collaboration, Breast Cancer Research**

2014 – current

- Investigate mechanisms of transcriptional regulation by activation-induced cytidine deaminase (AID) in inflammatory and reprogramming processes
- Assess expression of cytidine deaminase in invasive and in situ breast cancer and its microenvironment by immunohistochemistry

ABRAXIS/CELGENE, Marina del Rey, CA and South San Francisco, CA

**Research Project Leader, Biomarker Research Collaboration**

2008 – 2012

- Developed an immunohistochemistry-based assay to assess expression of SPARC protein in various tumor types and normal tissues. Collaborated with another pathologist to evaluate and quantify expression.
  - Results were correlated by Abraxis scientific staff with treatment response and outcome in patients treated with the drug, Abraxane, vs. placebo.
  - These studies were part of an FDA approved protocol, and served as basis for subsequent filings to the FDA.

TUFTS UNIVERSITY, NEW ENGLAND MEDICAL CENTER, Boston, MA

1997 – 2002

**Research Fellowship and Postdoctoral Fellowship**

- Trained in cellular and molecular biology in the Division of Nephrology. Served as a research fellow working with Drs. N. Madias and Ajay Singh, followed by a postdoctoral fellowship with Dr. Debbie Beasley.
- Focused on in vitro and in vivo models of vascular smooth muscle cell biology, cytokine regulation and their role in the pathogenesis of atherosclerosis.
  - Resulted in several first author publications in high-impact journals and poster presentations at international meetings, as well as NIH, Dialysis Clinic Inc. and institutional funding.
  - Acquired expertise in broad array of cellular and molecular biology techniques, as well as scientific writing.

## TEACHING EXPERIENCE

JOHN WAYNE CANCER CENTER, Santa Monica, CA 2007 – 2013

### Lecturer to Surgical Oncologists

- Facilitate didactic and practical sessions for Surgical Oncology Fellowship Pathology Course.

UNIVERSITY OF CALIFORNIA, Los Angeles, CA 2006

### Medical Student Teacher, Foundations of Medicine, Hematopathology Section

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, CA 2004 – 2006

### Medical Student Teacher, Year II Pathology Course

### Pharmacy Student Teacher, School of Pharmacy

## GRANTS AND AWARDS

**Laboratory Funding:** Co-wrote one new RO1 NIH grant, one RO1 renewal, and an interim support grant, 2002

- Principal Investigator: Debbie Beasley, Ph.D.

**Co-Investigator:** Dialysis Clinic, Inc - Paul Teschan Research Fund, Dec 1997-Nov 1999

- Principal Investigator: Debbie Beasley, Ph.D.

**Research Award:** Exchange Research Scholarship, Worcester Institute for Student Exchange, 1995

**Medical School:** Academic Merit Scholarship, "Iuliu Hatieganu" University of Medicine, 1991-1995

## PUBLICATIONS (INCLUDING BOOK CHAPTERS)

Bharat N. Nathwani, Sebastian J. Sasu, Arshad N. Ahsanuddin, Antonio M Hernandez, Milton R. Drachenberg: "The Art of Histologic Diagnosis"; "The Lymphoid Neoplasms, 3<sup>rd</sup> Edition", 2010, Chapter 42 Editor: Ian McGrath

Wasif N., Sasu S., Conway WC., Bilchik A. "Focal nodular hyperplasia: report of an unusual case and review of the literature" *American Surgeon*. Nov 2008 74(11): 1100-3

Lai Dominic W., Loughran Thomas P. Jr., Maciejewski Jaroslaw P., Sasu Sebastian, Song Sophie X., Epling-Burnette P. K., Paquette Ronald L. "Acquired amegakaryocytic thrombocytopenia and pure red cell aplasia associated with an occult large granular lymphocyte leukemia" *Leukemia Research*. May 2008 32(5): 823-827

Paul J. Chestovich, MD, Gary Schiller, MD, Sebastian Sasu, MD, and Jonathan R. Hiatt, MD "Duodenal Lymphoma: A Rare and Morbid Tumor" *American Surgeon*. 2007 Oct 73(10): 1057-62

Nathwani BN, Sasu SJ, Ahsanuddin AN, Hernandez AM, Drachenberg MR "The critical role of histology in an era of genomics and proteomics: a commentary and reflection" [Review] *Advances in Anatomic Pathology*. 2007 Nov 14(6): 375-400

Sebastian Sasu, D. LaVerda, N. Qureshi, D. T. Golenbock, D. Beasley "C. *pneumoniae* and chlamydial hsp60 stimulate proliferation of human vascular smooth muscle cells by TLR4-mediated p44/p42 MAPK activation" *Circulation Research* 2001, 89: 244-250

Sebastian Sasu, Angela L. Cooper, Debbie Beasley "Juxtacrine effects of IL-1 $\alpha$  precursor induce iNOS gene expression in rat aortic smooth muscle cells" *Am. J. Physiol. Heart Circ Physiol.* 2001, 280: H1615-H1623

Sebastian Sasu and Debbie Beasley, "Essential roles of I $\kappa$ B kinases  $\alpha$  and  $\beta$  in the proliferation of human vascular smooth muscle cells induced by interleukin-1 and serum" *Am.J.Physiol. Heart Circ Physiol* 2000, (6)278; H1823-H1831

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### ABSTRACTS AND ORAL PRESENTATIONS

Sasu S. "Refractory anemia with excess blasts-2 in transformation to erythroleukemia" 2007 Workshop of the Society for Hematopathology and European Association for Hematopathology: Myeloid Neoplasms and Mastocytosis, Indiana University, Nov 2007, Oral Presentation.

Nathwani, B., Sasu S., Ahsanuddin A. N., Brynes R. K. "Large cell transformation in precursor T-lymphoblastic lymphoma, and scattered Hodgkin-like cells" 2005 Workshop of the Society for Hematopathology/EAHP: Progress in T-cell malignancies, The University of Texas M.D. Anderson Cancer Center, October 20-22, 2005 Oral Presentation.

Sebastian Sasu, Angela L. Cooper, Debbie Beasley "Membrane IL-1 $\alpha$  precursor promotes iNOS expression in vascular smooth muscle cells via cell-cell contact." *Arterioscl. Thromb. Vasc. Biol.*, 2001.

Sebastian Sasu, D. LaVerda, N. Qureshi, D. T. Golenbock, D. Beasley "C. pneumoniae stimulates proliferation of human SMC by TLR4-mediated p44/p42 activation." *Atherosclerosis X2*, Keystone, CO.

Sebastian Sasu and Debbie Beasley, "Interleukin-1 stimulates proliferation of human vascular smooth muscle cells via persistent activation of NF- $\kappa$ B", *FASEBJ* 1999; 13, 4, I: 39.

Tatiana V. Lebedeva, Sebastian Sasu and Ajay K. Singh, "A 48kDa protein constitutively represses the murine IL-1 $\alpha$  promoter", *Jour.Amer.Soc.Nephrol.* 1997; 8: 459.

Tatiana V. Lebedeva, Sebastian Sasu and Ajay K. Singh, "Regulation of the human IL-1 $\alpha$  promoter differs from that of the murine promoter", *Jour.Amer.Soc.Nephrol.* 1997, 8: 460.

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### INVITED SPEAKER

Oral presentation, Society for Hematopathology international meeting, Indianapolis, IN

2007

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### PROFESSIONAL MEMBERSHIPS

Fellow, College of American Pathologists

Member, Society for Hematopathology/European Association of Hematopathology

Fellow, American Society for Clinical Pathology