

University of California, San Francisco
CURRICULUM VITAE

Name: Parul Bhargava, M.D.

Position: Professor of Clinical Laboratory Medicine, Step 2
Laboratory Medicine
School of Medicine

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EDUCATION

1989 - 1993	Lady Hardinge Medical College and associated Hospitals, University of Delhi, New Delhi, India	M.B.,B.S.* (M.D.) *(Bachelor of Medicine and Bachelor of Surgery)	Medicine
1994 - 1994	Lady Hardinge Medical College and associated hospitals, University of Delhi, New Delhi India	Rotating internship	Medicine, Surgery, Obstetrics and Gynecology, Pediatrics and Preventive Medicine
1995 - 1995	Maulana Azad Medical college, University of Delhi, New Delhi, India	Resident	Anatomic and Clinical Pathology
1996 - 1997	Georgetown University Medical Center, Washington DC	Research associate	Flow cytometry and Molecular Diagnostics
1997 - 2001	Georgetown University Medical Center, Washington DC	Resident	Anatomic and Clinical Pathology
2000 - 2000	National Institutes of Health, Bethesda MD	Visiting fellow	Hematopathology
2001 - 2002	Beth Israel Deaconess Medical Center, Boston MA	Fellow	Hematopathology

LICENSES, CERTIFICATION

1995 USMLE Step 1

1996	USMLE Step 2
1996	USMLE Step 3
2000	Massachusetts Board of Registration in Medicine, Full Medical License
2001	Diplomate, The American Board of Pathology, Combined Anatomic and Clinical Pathology
2003	Diplomate, The American Board of Pathology, Hematopathology/Hematology
2007	California Board of Medicine, Full Medical License (C52719)

PRINCIPAL POSITIONS HELD

1999 - 2001	Georgetown University Medical Center	Chief Resident	Pathology
2004 - 2006	Beth Israel Deaconess Medical Center	Medical Director, Lowry Laboratory	Pathology
2002 - 2010	Harvard Medical School	Instructor	Pathology
2009 - 2016	Beth Israel Deaconess Medical Center	Medical Director, Hematology, Coagulation and Flow Cytometry Laboratory	Pathology
2014 - 2016	Beth Israel Deaconess Medical Center	Medical Director, Outreach laboratories at BIDMC-Chestnut Hill, and BIDMC- Cancer Center- Needham	Pathology
2010 - 2017	Harvard Medical School	Assistant Professor	Pathology
2002 - 2017	Beth Israel Deaconess Medical Center	Medical Director, Hematology Lab	Pathology
2003 - 2017	Beth Israel Deaconess Medical Center	Associate Director, Hematopathology Fellowship Program	Pathology
2017 - present	University of California, San Francisco	Professor of Clinical Laboratory medicine	Laboratory Medicine
2017 - present	University of California, San Francisco	Laboratory Director, Clinical Laboratories at Moffitt-Long Hospital	Laboratory Medicine

2017 - present	University of California, San Francisco	Staff hematopathologist	Laboratory medicine and anatomic pathology
2017 - present	University of California, San Francisco	Quality director, Clinical Laboratories at Moffitt-Long	Laboratory medicine

OTHER POSITIONS HELD CONCURRENTLY

1999 - 2000	Georgetown University Medical Center, Washington DC	Organizer, Histology refresher courses for in-coming pathology residents	Pathology
1999 - 2000	Georgetown University Medical Center, Washington DC	Organizer, weekly lecture series for pathology residents and faculty given by invited guest speakers	Pathology
1999 - 2001	Georgetown University Medical Center, Washington DC	Organizer, monthly Grand rounds for the Department of Pathology	Pathology
2001 - 2002	Beth Israel Deaconess Medical Center, Boston MA	Organizer, 'Case-of-the-week' series for hematology lab personnel	Pathology
2009 - 2016	Beth Israel Deaconess Medical Center and Harvard Medical School, Boston MA	Core faculty, HMS 3rd year pathology elective	Pathology
2006 - present	Beth Israel Deaconess Medical Center, Boston MA	Specialty inspector for flow cytometry	Pathology

2007 - 2016	Beth Israel Deaconess Medical Center, Boson MA	College of American Physicians (CAP), physician team leader for external inspections	Pathology
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HONORS AND AWARDS

1987	National Science Talent Search Scholarship	National Council of Educational Research and Training, Government of India
1988	Principal's Special Award	Principal's Trust Fund, Welham Girls School, Dehradun, India
1988	Finalist, National Mathematics Olympiad	National Board for Higher Mathematics, Government of India
1989	Mahindra Search for Talent Scholarship	K. C. Mahindra Education Trust, Mumbai, India
1998	Residents' Night 1st Prize winner, oral presentation	Washington Society of Pathologists, Washington DC
1999	Residents' Night 1st Prize winner, oral presentation	Washington Society of Pathologists, Washington DC
1999	ASCP Resident Research Award (National Level)	American Society of Clinical Pathologists (ASCP) and College of American Pathologists (CAP) National Meeting, October 1998
2004	Golden Test Tube Award, for best teaching in clinical pathology	Beth Israel Deaconess Medical Center, Boston MA
2007	Science Sparks featured article on light chain deposition disease	Memorial Sloan Kettering Cancer Center, New York NY
2010	Margot S. Kruskall award for teaching in clinical pathology	Beth Israel Deaconess Medical Center, Boson MA
2007	Eleanor and Miles Shore fellowship, career development award	Harvard Medical School, Boston MA
2018	Faculty teaching award	University of California, San Francisco, CA

KEYWORDS/AREAS OF INTEREST

Medical Director
Laboratory administration
Quality improvement
Outreach operations
Hematology

Hematopathology
 Flow cytometry
 Coagulation
 Medical Education

CLINICAL ACTIVITIES

CLINICAL ACTIVITIES SUMMARY

Since 2017, I have served as the CLIA director of the clinical laboratories at Moffitt-Long hospital. In this role, I have overseen and provided leadership oversight for several initiatives and brought on several new initiatives. Some examples include:

- successful implementation of many platform upgrades including Erytra in transfusion medicine, new irradiator in the blood bank, a CD34 enumeration flow cytometry platform, the BD FACSLytic in the BMT lab, and urinalysis dipstick reader ArcRay in hematology.
- I have undertaken several new personnel development initiatives, including a clinical microscopy CE program for CLSs called "tech Tuesdays" as well as a quarterly "Quality improvement case of the Quarter" series.
- There have been a variety of quality improvement initiatives, including improving Apex displays of peripheral smear MD interpretation comments, sent-out lab interfaces, lupus anticoagulant reporting, duplicate Type and Screen orders, disabling re-printing of dead orders, send-out workflows, etc.
- Several tests have been brought in-house (eg procalcitonin, HS-CRP) while others with redundancy discontinued (semen analysis)
- I have been directly involved in the master space planning for phase 2 and 3 of the laboratory construction project as well as planning for BMT lab expansion. We are in the midst of a major renovation involving total laboratory automation.
- I also represent laboratory medicine in the user-group for the new hospital planning at Parnassus Heights. I am a member of the hospital utilization committee. I am a laboratory medicine designee for the Executive Medical board.
- At the regional level, I am a member of the UC-wide laboratory council meeting

CLINICAL SERVICES

2002 - 2003	Hematology laboratory clinical signout of peripheral smears, body fluids, hemoglobinopathies, coagulopathy workups at Beth Israel Deaconess Medical center, Boston MA	daily, 2 hours a day
2002 - 2005	Hematopathology tissue biopsy reporting (marrows, lymph nodes, spleens, thymuses, tonsils, and other organ systems with hematopoietic neoplasms)	10 hours a day, 6 months per year
2002 - 2005	Flow cytometry approvals, panel selection, interpretation and reporting at Beth Israel Deaconess Medical Center, Boston MA	daily, 3-4 hours a day, 6 months per year
2003 - 2005	Hematology laboratory clinical signout of peripheral smears, body fluids, hemoglobinopathies, coagulopathy workups at Beth Israel Deaconess Medical center, Boston MA	daily, 2 hours a day, 6 months per year

2006 - 2016	Hematology laboratory clinical signout of hemoglobinopathies, coagulopathy workups, flow cytometry approvals, panel selection, interpretation and reporting at Beth Israel Deaconess Medical center, Boston MA	daily, 5-6 hours a day, 17 weeks per year
2006 - 2016	Peripheral smears, body fluids, Hematopathology tissue biopsy reporting (marrows, lymph nodes, spleens, thymuses, tonsils, and other organ systems with hematopoietic neoplasms)	10 hours per day, 10 weeks per year
2017 - 2017	Hematology laboratory clinical signout of hemoglobinopathies, coagulopathy workups, flow cytometry approvals, panel selection, interpretation and reporting at Beth Israel Deaconess Medical center, Boston MA	6 hours a day, 7 weeks out of 6 months
2017 - 2017	Peripheral smears, body fluids, Hematopathology tissue biopsy reporting (marrows, lymph nodes, spleens, thymuses, tonsils, and other organ systems with hematopoietic neoplasms)	8-10 hours a day, 5 weeks out of 6 months
2017 - present	Peripheral smears, Body fluids, Coagulation work-ups at UCSF, Parnassus	8 hours a day, 4-5 days a month
2017 - present	Bone marrow biopsies, Hematopathology consultations, UCSF	2-4 weeks in 6 months
2018 - present	In-house lymph node and other anatomic pathology biopsies, UCSF	2 days a month

PROFESSIONAL ACTIVITIES

MEMBERSHIPS

1998 - 2000	Washington Society of Pathologists, Member
1999 - 2002	College of American Pathologists, Junior Member
1999 - 2007	American Society of Clinical Pathologists, Member
2000 - present	United States & Canadian Academy of Pathology, Member
2002 - present	American Society of Hematology, Member
2003 - present	College of American Pathologists, Fellow of CAP
2008 - present	Society for Hematopathology, Member
2009 - 2014	Association for Molecular Pathology, Member
2010 - present	Association of Indian Pathologists in North America (AIPNA), life member
2015 - present	International Society for Laboratory Hematology, member

SERVICE TO PROFESSIONAL ORGANIZATIONS

2009 - 2010	College of American Pathologists	Teaching Faculty for a short course at annual meeting; course title: 'Pitfalls in Laboratory Diagnosis'
2008 - 2008	United States and Canadian Academy of Pathology	Invited session chair, annual meeting
2011 - 2014	College of American Pathologists (CAP) House of Delegates	Alternate Delegate from Massachusetts
2012 - 2012	American Society of Hematology	Faculty Speaker, Career Development Seminar
2014 - 2016	College of American Pathologists	Course Director & faculty for a short course with SAM credits " The Great Mimickers in Hematopathology: Malignancies That Appear Benign and Benign Lesions that Appear Malignant"
2014 - present	College of American Pathologists (CAP), Hematology and Clinical Microscopy Resource Committee	National committee member
2015 - 2017	Society for Hematopathologists	Executive Committee Board Member, Membership division
2015 - 2018	United States & Canadian Academy of Pathologists	Abstract review board member
2016 - 2019	International Society of Laboratory Hematology	Board of Directors
2017 - 2017	International Society of Laboratory Hematology	Invited session chair, annual meeting
2017 - 2017	International Journal of Laboratory Hematology	Guest Editor
2017 - 2018	Society for Hematopathologists	Chair, Membership committee, Executive Board

2018 - 2022	American Society of Hematology	Member, Scientific Committee on Hematopathology & Clinical laboratory hematology
2018 - 2018	International Society of Laboratory Hematology	Invited session chair, annual meeting
2019 - 2019	International Society of Laboratory Hematology	Co-chair, annual meeting
2019 - 2019	International Society of Laboratory Hematology	Co-chair, trainee career session
2019 - 2019	International Society of Laboratory Hematology	Co-Chair, plenary Session
2019 - 2022	International Society of Laboratory Hematology	Elected Board Member (2nd term)

SERVICE TO PROFESSIONAL PUBLICATIONS

2007 - 2007	Ad hoc reviewer, European respiratory Journal (1 article)	
2007 - 2013	Ad hoc reviewer, Indian Journal of Pathology and Microbiology (5 articles in 6 years)	
2008 - 2014	Ad hoc reviewer, American Journal of Hematology (6 articles in 6 years)	
2009 - 2009	Ad hoc reviewers, Clinical Lymphoma and Myeloma (1 article)	
2012 - 2012	Editor, Textbook: Non-neoplastic hematology and infections, Wiley publishers	
2013 - 2013	Ad hoc reviewer, Indian Journal of Cancer (1 article)	
2014 - 2017	Editorial board, American Journal of Hematology (6 articles in 3 years)	
2016 - 2016	Ad hoc reviewer, International Journal of Laboratory Hematology (2 articles in 1 year)	
2017 - 2017	Guest Editor, Educational Issue, International Journal of Laboratory Hematology	
2017 - 2017	Section Editor, Color Atlas of Hematology. Ed. Eric Glassy. College of American Pathologists	
2017 - 2018	Bone Marrow, bench-top reference guide, College of American Pathologists	
2018 - present	Ad hoc reviewer, International Journal of Laboratory Hematology	
2019 - 2019	Panelist for roundtable on laboratory hematology, published in CAP Today	

INVITED PRESENTATIONS - INTERNATIONAL

2005	Tata Memorial Hospital, Mumbai, India.	Invited panelist on session on Geriatric Hematology, International Geriatric oncology conference. October 2005.
2009	Himalayan Institute of Medical sciences, Uttrakhand, India	Invited lecturer at a special seminar on Hodgkin Lymphoma
2012	Himalayan Institute of Medical Sciences, Dehradun, India, in collaboration with Indian College of Pathologists (ICP) and Association of Indian Pathologists of North America (AIPNA).	Invited lecturer at the international CME conference at the annual Indian Association of Pathologists and Microbiologists meeting.
2012	Indian Medical Association (IMA), Dehradun India.	Invited lecturer, Updates in work-up of clotting disorders, CME program
2013	St. George's University, Grenada	Invited Lecturer and Visiting Professor; Update on flow cytometric immunophenotyping
2013	St. George's University, Grenada	Invited Lecturer and Visiting Professor; B-cell Non-Hodgkin Lymphomas: a stepwise approach
2013	Krishna Institute of Medical Sciences, Karad, Maharashtra, India	Invited speaker at the International CME conference; Tackling high-grade hematologic neoplasms
2013	Krishna Institute of Medical Sciences, Karad, Maharashtra, India	Invited speaker at the International CME conference; Hodgkin Lymphoma

2017	International Society for Laboratory Hematology annual meeting, Honolulu, HI	Invited session chair, for session entitled "Hot topics in General Laboratory Hematology".
2018	International Society for Laboratory hematology annual meeting, Brussels Belgium	Invited session chair, for session entitled "women in ISLH"
2019	International Society for Laboratory Hematology annual meeting, Vancouver Canada	Program co-chair
2019	International Society for Laboratory Hematology annual meeting, Vancouver Canada	Chair, opening plenary session
2019	International Society for Laboratory Hematology annual meeting, Vancouver Canada	Co-chair, Trainee career session
2019	Korean Society for Laboratory Hematology & Laboratory Medicine Congress & Exhibition meeting, Busan, Korea	Invited speaker

INVITED PRESENTATIONS - NATIONAL

1995	Indian Association of Cytologists	Invited platform presentation at annual meeting, Cytomorphologic Spectrum of Male Breast Lesions by Fine Needle Aspiration Biopsy. – A 10 year experience of 76 cases.
1998	American Society of Clinical Pathologists	Invited platform presentation at annual meeting; Endoscopic mapping and surrogate markers: A better surveillance method in Barrett esophagus.
2008	United States and Canadian Academy of Pathology	Invited platform presentation at annual meeting; Prognostic Markers in CLL Using Multi-Gene Transcriptional Profiling
2008	United States and Canadian Academy of Pathology	Invited session moderator at annual meeting
2009	College of American Pathologists	Teaching faculty for a short course entitled "Pitfalls in Laboratory Diagnosis"
2010	College of American Pathologists	Teaching faculty for a short course "Pitfalls in Laboratory Diagnosis"

2012	American Society of Hematologists	Invited faculty speaker, Career Development Seminar “ Hospital-based hematology- Hemapheresis/BMT/Hematopathology Careers
2014	College of American Pathologists	Course Director & faculty for a short course “ The Great Mimickers in Hematopathology: Malignancies That Appear Benign and Benign Lesions that Appear Malignant” ,
2015	College of American Pathologists	Course Director & faculty for a short course with SAM credits “ The Great Mimickers in Hematopathology: Malignancies That Appear Benign and Benign Lesions that Appear Malignant” ,
2016	College of American Pathologists	Course Director & faculty for a short course with SAM credits “ The Great Mimickers in Hematopathology: Malignancies That Appear Benign and Benign Lesions that Appear Malignant” ,

INVITED PRESENTATIONS - REGIONAL AND OTHER INVITED PRESENTATIONS

1998	Washington Society of Pathologists	Platform presentation, residents' night. Immunohistochemical Markers and DNA Ploidy: More Sensitive than Morphology in Predicting Risk of Progression in Barrett Esophagus? A comprehensive study of 515 mucosal biopsies from Sequential Endoscopic Mappings using Ki-67, bcl-2, erb-2, PCNA, p53 and flow cytometric DNA ploidy analysis.
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1999	Washington Society of Pathologists	Platform presentation, residents' night. T-cell receptor gamma chain polymerase chain reaction.
2011	University of Massachusetts Medical Center, Worcester MA	Invited Grand rounds speaker, Anti-phospholipid antibody syndrome: a messy soup of antibodies. Lab medicine grand rounds/ hospital labs seminar series,
2011	Department of Obstetrics and Gynaecology, Beth Israel Deaconess Medical Center, Boston MA	Invited Grand Rounds Speaker, Hemoglobinopathies in obstetrics. Diagnostic algorithms, pitfalls and practical pearls.
2012	Boston IVF Waltham MA	Invited Grand rounds speaker. Hemoglobinopathies.
2013	Lawrence General Hospital, Lawrence MA	Invited Grand rounds speaker. D-Dimers: Where do we stand in 2013?

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT ACTIVITIES

2007	Leadership Development Course for Junior Faculty, The Center for Faculty Development, Harvard Medical School, Boston MA
2010	Updates in Plasma cell Dyscrasia, Society for Hematopathologists companion meeting, USCAP
2014	T-cell lymphoproliferations, Society for Hematopathologists companion meeting, USCAP
2014	Short Course, Non-Neoplastic Hematopathology: Pitfalls in the Differential with Hematologic Malignancies. de Leval, Ferry, Hasserjian
2014	Short Course, Problems, Pitfalls, and an Integrated Approach to Lymphoproliferative Disorders in the Skin, Goodard et al
2015	Society for Hematopathologists, companion meeting. WHO 2016 updates
2015	Short course on Splenic Lymphomas, USCAP

- 2016 Current topics in aggressive B-cell lymphomas/leukemias, Society for hematopathology companion meeting at USCAP
- 2017 An Update on Monocytic and Histiocytic Neoplasms and Disorders, society for hematopathology companion meeting, USCAP
- 2018 New and Updated Entities in the Revised WHO Classification, Society for Hematopathology companion meeting, USCAP
- 2019 Society for Hematopathology companion meeting, USCAP, Washington DC

GOVERNMENT AND OTHER PROFESSIONAL SERVICE

- 2015 - 2015 Roche Diagnostics Invited member for a Round Table Scientific Meeting
- 2015 - 2015 Giner Inc, Newton MA. Invited consultant for Rapid and Continuous Analysis of Blood Coagulants
- 2016 - 2016 Infinite MD Invited review of pathology slides
- 2018 - 2018 Roche Diagnostics Invited Chair, ISLH workshop on "Hematology diagnostics reinvented – How are new imaging techniques fitting into current practice?"

UNIVERSITY AND PUBLIC SERVICE

SERVICE ACTIVITIES SUMMARY

As the CLIA director of clinical laboratories at Parnassus, I serve on many departmental quality improvement initiatives. I chair the laboratory quality improvement committee at Parnassus and am a member of the umbrella laboratory Quality improvement committee.

At the UCSF health level, I serve on the Executive medical board, hospital utilization committee, planning committee for the New Parnassus Heights hospital, and Strategic plan work group. I have also served on the VA staff hematopathologist selection committee, and at the school of medicine Department of Pathology chairman search committee.

At the UCOP level, I am part of the UCOP lab council.

**UNIVERSITY SERVICE
UC SYSTEM AND MULTI-CAMPUS SERVICE**

2019 - present UCOP lab council Member

UCSF CAMPUSWIDE

2017 - present Hospital Utilization Committee Member

2018 - 2019 VA staff hematopathologist selection committee Member

2019 - present Planning committee for the New Hospital at Parnassus Heights Representative, User group

2019 - present Executive medical board Member

2019 - present UCSF Health Strategic plan work group Member

SCHOOL OF MEDICINE

2017 - 2018 Department of Pathology, Chairman search committee Interviewer

DEPARTMENTAL SERVICE

2017 - present Department of Laboratory Medicine, University of California, San Francisco Hematopathology fellowship selection. Interview fellowship candidates

2017 - present Department of Laboratory Medicine, University of California, San Francisco Pathology & Lab Medicine residency selection. Interview residency candidates

2017 - present Quality improvement committee, Parnassus Chair

2017 - present Laboratory Quality Improvement Committee Member

SERVICE AT OTHER UNIVERSITIES

2000 - 2001 Chief Residents' Liaison Committee Member Georgetown University Medical Center, Washington DC

2002 - 2017 Pathology residency selection. Interview 8-9 residency candidates/year. Beth Israel Deaconess Medical Center, Boston MA

2002 - 2017 Hematopathology fellowship selection. Interview 6-7 fellowship candidates/year. Beth Israel Deaconess Medical Center, Boston MA

2004 - 2017	Member, Pharmacy & Therapeutics (P&T) anti-coagulation subcommittee	Beth Israel Deaconess Medical Center, Boston MA
2005 - 2006	Member, Search Committee for staff Hematopathologist	Beth Israel Deaconess Medical Center, Boston MA
2005 - 2006	Member, Search Committee for staff Transfusion Medicine physician	Beth Israel Deaconess Medical Center, Boston MA
2011 - 2011	Member, Search Committee for Quality Improvement Director	Beth Israel Deaconess Medical Center, Boston MA
2011 - 2011	Member, Search Committee for staff Transfusion Medicine physician	Beth Israel Deaconess Medical Center, Boston MA
2013 - 2013	Member, Search Committee for Clinical Chemistry Medical Director	Beth Israel Deaconess Medical Center, Boston MA
2013 - 2013	Member, Search Committee for Cytogenetics Medical Director	Beth Israel Deaconess Medical Center, Boston MA
2015 - 2016	Member, Search Committee for staff Hematopathologist	Beth Israel Deaconess Medical Center, Boston MA

COMMUNITY AND PUBLIC SERVICE

2007 - 2007	Saheli (saheliboston.org), Burlington MA	Co-organizer, children's performance for holiday celebrations
2008 - 2008	Newton Public Library, Newton MA	Co-planner and organizer, spring festivals of India
2009 - 2009	Bowen Elementary School, Newton MA	Science demonstration of microscopy, bone health, and tick borne disease prevention
2015 - 2017	Beth Israel Deaconess Medical Center, Boston MA	Member, Advisory committee for Religious Diversity

CONTRIBUTIONS TO DIVERSITY

CONTRIBUTIONS TO DIVERSITY

I am passionate about enhancing access to education and mentoring of diverse, under-served populations of the world. To this end, I have served as a visiting faculty to universities in India, and in Grenada, giving seminars on various topics in hematology. I have supported requests of external observers who wish to have a shadowing experience in the institutions I have worked at. I have co-edited a book on non-neoplastic hematopathology and infectious disorders, to serve a worldwide audience where infections and non-neoplastic disorders are more prevalent and may lead to diagnostic challenges.

I have served as a member of the advisory committee on religious diversity at the Beth Israel Deaconess Medical Center, Boston MA. I served as an adviser to the office of spiritual care and education and have helped plan and execute Hindu festival celebrations at the hospital.

TEACHING AND MENTORING

TEACHING SUMMARY

I am passionate about medical education and have highlighted below some of my teaching contributions.

At the Institution:

- Hematopathology Fellows: Since 2017, I have been actively involved in interviewing pathology and laboratory medicine residents as well as hematopathology fellows. I have also provided several well-received one-on-one didactics and informal career mentorship to fellowship trainees.
- Pathology Residents: I am actively involved in clinical microscopy training of both anatomic and clinical pathology residents via my service contributions on not only the bone marrow and consult service, but also Parnassus laboratory hematology and coagulation as well as anatomic pathology's "J-Cluster" (lymph node) service. I teach several didactic sessions on hematology, coagulation disorders, hemoglobinopathies as well as lymphomas. I was presented the 2017-18 faculty teaching award for the best teacher in the department of laboratory medicine at UCSF.
- Medical Technologists: I initiated a medical technologists CE initiative at UCSF involving microscopy.

Regional

- I serve as a consultant to my peers in laboratories of other institutions and have been providing mentorship and advice to several junior faculty

National

- I served as the program chair for the International Society of Laboratory Hematology (ISLH) annual meeting held in Vancouver in May 2019. This is a 3-day meeting with approximately 1000 international delegates, and several educational offerings.
- I chaired a trainee career development session where I provided career mentorship advice to attendees

Teaching materials, Chapters, Books

- As a member of the CAP' s national hematology and clinical microscopy resource

committee I have authored and edited several educational modules including the hematology glossary, educational write-ups on microangiopathic hemolytic anemia, leukoerythroblastic picture, etc. I have also responded to several Q&A questions posed to the CAP, including on relevance of band counts in sepsis, and reporting of absolute counts, both published in CAP Today.

- Bhargava P, Etzell J. Section editor. Red Blood Cells in Color Atlas of Hematology. Ed. Glassy E. 2nd Edition. College of American Pathologists, Northfield IL 2018.
- Fedoriw Y, Bhargava P, Bradley KT, Frater JL, Lewis MR, Vergara-Lluri M, Thommasen A. Bone Marrow Benchtop Reference Guide- An illustrated Guide for cell morphology. College of American Pathologists, Northfield IL. 2019
- Dulau-Florea A, Bhargava P, Weinberg O, Hudnall D. Chapter 26 Hematopathology, in Rubin's textbook of Pathology (in press)

FORMAL TEACHING

Not UCSF	Academic Yr	Course No. & Title	Teaching Contribution	School	Class Size
X	1998 - 1998	Neoplasia (Georgetown University Medical center, Washington DC)	Lecturer; 2 hour didactic lecture to 4th year medical students	Medicine	180
X	1998 - 1998	Multiple Myeloma tutorial (Georgetown University Medical Center, Washington DC)	Lecturer; 1 hour for GUMC pathology residents	Medicine	20
X	2000 - 2000	Breast Carcinoma CPC (Georgetown University Medical center, Washington DC)	Lecturer; 2 hour didactic lecture to 2nd year medical students	Medicine	180
X	2000 - 2000	Cell injury and adaptation (Georgetown University Medical center, Washington DC)	Lecturer; 2 hour didactic lecture to 2nd year medical students	Medicine	180
X	2002 - 2004	Hematologic pathophysiology (Harvard Medical School, Boston MA)	Lecturer; 2 hours each year for 2nd year HMS medical students	Medicine	40

Not UCSF	Academic Yr	Course No. & Title	Teaching Contribution	School	Class Size
X	2007 - 2007	PCE longitudinal case conference on thrombophilia (Harvard Medical School, & Beth Israel Deaconess Medical Center, Boston MA)	Lecturer; 2 hours for 3rd year HMS medical students	Medicine	20
X	2002 - 2007	Macro- and Micro-cytic anemias (Beth Israel Deaconess Medical Center, Boston MA)	Course director and lecturer; 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2007	Hemoglobinopathies (Beth Israel Deaconess Medical Center, Boston MA)	Course director and lecturer; 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2007	Hemolytic anemias (Beth Israel Deaconess Medical Center, Boston MA)	Course director and lecturer: 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2007	Automation in Hematology Laboratory (Beth Israel Deaconess Medical Center, Boston MA)	Course Director and lecturer; 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2007	Introduction to Flow cytometry (Beth Israel Deaconess Medical Center, Boston MA)	Course director and lecturer: 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2008	Flow Cytometry (Beth Israel Deaconess Medical Center, Boston MA)	Lecturer: 1.25 hour didactic lecture each year, for hematology-oncology fellows	Medicine	20
X	2002 - 2015	Coagulation disorders lecture series: Platelet disorders and von Willebrand disease (Beth Israel Deaconess Medical Center, Boston MA)	Course director and lecturer; 1 hour didactic lecture each year, for Pathology residents	Medicine	15

Not UCSF	Academic Yr	Course No. & Title	Teaching Contribution	School	Class Size
X	2002 - 2015	Coagulation disorders lecture series: Bleeding disorders (Beth Israel Deaconess Medical Center, Boston MA)	Course director and lecturer; 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2015	Coagulation disorders lecture series: Platelet disorders and von Willebrand disease (Beth Israel Deaconess Medical Center, Boston MA)	Course Director and Lecturer; 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2015	B-cell Non Hodgkin Lymphoma (Beth Israel Deaconess Medical Center, Boston MA)	Lecturer; 1.25 hour lecture each year, for hematology oncology fellows and hematopathology fellows	Medicine	20
X	2002 - 2016	Orientation lecture series: Introduction to Hematology (Beth Israel Deaconess Medical center, Boston MA)	Lecturer,; 1 hour didactic lecture each year, for Pathology residents	Medicine	15
X	2002 - 2017	Topics in Laboratory medicine (Beth Israel Deaconess Medical Center, Boston MA)	Lecturer; 2-4 lectures per year, 1 hour each, for hematology-oncology fellows	Medicine	20
X	2007 - 2015	Human Systems: Hematology course (Harvard Medical School, Boston MA)	Lecturer; Hands-on microscopy tutorial for 2nd year HMS medical students. 2.5 hours each year	Medicine	20
X	2008 - 2008	Microscopy tutorial on peripheral smears (Harvard Medical School, Boston MA)	Lecturer; 2.5 hours for 3rd year HMS medical students	Medicine	10

Not UCSF	Academic Yr	Course No. & Title	Teaching Contribution	School	Class Size
X	2008 - 2008	PCE longitudinal case conference on eosinophilia (Harvard Medical School, & Beth Israel Deaconess Medical Center, Boston MA)	Lecturer; 1 hour for 3rd year HMS medical students	Medicine	20
X	2008 - 2016	T-cell non-Hodgkin Lymphomas (Beth Israel Deaconess Medical Center, Boston MA)	Lecturer: 1.25 hour didactic lecture each year for Hematology-Oncology fellows and hematopathology fellows	Medicine	20
X	2008 - 2017	Laboratory Management Course: section on accreditation and inspections	Lecturer, and supervisor for practical exercises, 7 hours each year, for pathology residents and fellows	Medicine	10
X	2009 - 2009	HIT and Argatroban (Beth Israel Deaconess Medical Center, Boston MA)	Lecturer; 1 hour didactic session for pharmacy residents and fellows	Pharmacy	
X	2009 - 2015	PCE longitudinal case conference pathology tutor (Harvard Medical School and Beth Israel Deaconess Medical Center, Boston MA)	Lecturer; 3 hours per month	Medicine	25
X	2009 - 2017	Introduction to coagulation testing (Beth Israel Deaconess Medical Center, Boston MA)	Course director and lecturer; 1 hour didactic session, 4 times each year, for pathology residents	Medicine	8
X	2009 - 2017	Diagnostic workup of hemoglobinopathies and thalassemias (Beth Israel Deaconess Medical Center, Boston MA)	Course director & lecturer: 2 hour sessions, 4 times a year for pathology residents	Medicine	8

Not UCSF	Academic Yr	Course No. & Title	Teaching Contribution	School	Class Size
X	2011 - 2011	Microscopy tutorial on peripheral smears (Harvard Medical School, Boston MA)	Lecturer; 1.5 hours for 3rd year medical students	Medicine	10
X	2012 - 2017	Coagulation disorders didactic lecture series (Beth Israel Deaconess Medical center, Boston MA)	Course director and lecturer (a series of 12 lectures and case studies, taught 4 times a year, for pathology residents)	Medicine	8
X	2016 - 2016	B-cell Non-Hodgkin Lymphoma classification, WHO 2016 updates	Lecturer; 1.25 hours didactic lecture for hematology-oncology division	Medicine	20
X	2016 - 2016	T-cell Non-Hodgkin Lymphoma classification, WHO 2016 updates	Lecturer; 1.25 hours didactic lecture for hematology-oncology division	Medicine	20
	2017 - 2017	Diagnostic workup of hemaglobinopathies and thalassemias	Lecturer; post MOD. 1 hour didactic for APCP residents	Medicine	15
	2017 - 2017	B-cell Non-Hodgkin lymphoma	Lecturer; post MOD. 1 hour didactic for APCP residents	Medicine	15
	2017 - 2017	High grade B-cell lymphomas	Lecturer; post MOD. 1 hour didactic for APCP residents	Medicine	15
	2018 - 2018	T-cell Non-Hodgkin Lymphoma	Lecturer; post MOD. 1 hour didactic for APCP residents	Medicine	15
	2018 - 2018	Introduction to hemoglobinopathies	Lecturer; post MOD. 1 hour didactic	Medicine	10
	2018 - 2018	Introduction to Coagulation	Lecturer; post MOD. 1 hour didactic	Medicine	10
	2019 - 2019	Low grade B-cell non-Hodgkin lymphoma	Lecturer; 1 hour didactic	Medicine	10
	2019 - 2019	High Grade B-cell non-Hodgkin Lymphoma	Lecturer; 1 hour didactic	Medicine	10
	2019 - 2019	Lupus anticoagulant	Lecturer; 30 minute didactic	Medicine	10
	2019 - 2019	von Willebrand Disease	Lecturer; 30 min didactic	Medicine	10

INFORMAL TEACHING

- 1997 - 1999 Presenter, medical morbidity and mortality conference, for medicine students, residents and fellows. 1 hour each month, each year. Georgetown University Medical Center, Washington DC
- 1999 - 2000 Presenter & discussant of pathology findings at Pulmonary pathology Conference. Attended by medicine residents and pulmonary fellows. 1 hour per week for 1 year. Georgetown University Medical center, Washington DC
- 1999 - 2001 As chief resident, for anatomic and clinical pathology, directly supervised and trained all in-coming 1st year residents in grossing, autopsy, frozen sections, handling CP call questions. Georgetown University Medical Center, Washington DC
- 2002 - 2017 Clinical microscopy: review of peripheral blood smears, and body fluids left for medical director review by the hematology laboratory technologists, with medical students, pathology residents, hematopathology fellows, medical technologists, hematology-oncology fellows and visiting students. Daily 1-2 hours, 3-6 months in a year. Beth Israel Deaconess Medical Center, Boston MA
- 2002 - 2017 Coagulopathy workup, test selection and interpretation. Pathology residents, hematopathology fellows and other rotators on service (including medical students, hematology oncology fellows, visiting students, medical technologists). Daily 1-2 hours, 3-6 months in a year. Beth Israel Deaconess Medical Center, Boston MA
- 2002 - 2017 Flow cytometry triaging, test approvals, panel selection and interpretation. Pathology residents, hematopathology fellows and other rotators on service (including medical students, hematology oncology fellows, visiting students, medical technologists). Daily 1-2 hours, 3-6 months in a year. Beth Israel Deaconess Medical Center, Boston MA
- 2002 - 2017 Bone marrow biopsy, all surgical biopsies of hematologic tissues (e.g. spleen, thymus, lymph nodes, tonsils, all other organs with question of hematologic malignancy) : microscopy and immunohistochemical panel selection, interpretation, reporting. Pathology residents, hematopathology fellows and other rotators on service (including medical students, hematology oncology fellows, visiting students, medical technologists). Daily 6 hours, 3-6 months in a year. Beth Israel Deaconess Medical Center, Boston MA
- 2002 - 2017 Hemoglobinopathy workup. Pathology residents, hematopathology fellows and other rotators on service (including medical students, hematology oncology fellows, visiting students, medical technologists). 2-3 times a week, 3 hours per week, 3-6 months in a year. Beth Israel Deaconess Medical Center, Boston MA
- 2002 - 2017 Lymphoma rounds consultant. Hematology-oncology fellows. once a month, 1.25 hours each session. Beth Israel Deaconess Medical Center, Boston MA
- 2017 - present Clinical microscopy consultant. Hematology-Oncology consult rounds. 4 times a month, 1 hour each session

2017 - present Lymph node and other hematopathology tissue consultant for hematopathology faculty on anatomic pathology J cluster service. 10 times a month, 1 hour each

2017 - present Clinical microscopy rounds with hematopathology residents and fellows. 2 months per year. UCSF

POSTDOCTORAL FELLOWS AND RESIDENTS MENTORED

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2002 - 2003	Jason Ford	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Division Chief for Hematopathology, Sidra Medical and Research Centre, Qatar Formerly, Head, Academic Hematopathology Program, Children's & Women's Health Centre of British Columbia, Vancouver Canada
2002 - 2003	Mark Lu	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Academic Staff Physician and Chief, Hematology & Hematopathology; Site Director, Laboratory Medicine Residency Training, VA Medical Center UCSF, San Francisco, CA

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2003 - 2004	Liron Pantanowitz	Beth Israel Deaconess Medical Center, Boston MA	Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Professor of Pathology and Biomedical Informatics, University of Pittsburg Medical Center, Pittsburg PA
2003 - 2004	Zhao Wu	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Hematopathology, CompHealth, Dallas TX
2004 - 2005	Nalinee Upalakalin	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	St. Francis Medical Center, Peoria IL
2004 - 2005	Alexandra Lagos	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Medical Director of Hematology, Carlson Pathology Associates, Jordon Hospital, Plymouth MA
2005 - 2006	Jaleh Mansouri	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Associate Pharmacovigilance Scientist at Alkermes, Inc, Boston MA

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2006 - 2007	Walther Pfieler	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Laboratory Director, East Side Clinical Laboratory & Associate Director iMorpheus SHUSA, RI
2006 - 2007	Bradley Bryan	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Hematopathologist, Central Oregon Pathology Consultants, Bend OR
2007 - 2008	Olga Fundyler	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Hematopathologist, Pathology Associates, Brunswick, GA
2007 - 2008	Anthony Martyniak	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Director Hematology & Hematopathology, Strata Diagnostics, and Winchester Hospital, Winchester MA
2008 - 2009	Victor Zota	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, Heywood Hospital, UMass network, MA

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2008 - 2009	Julia Braza	Beth Israel Deaconess Medical Center, Boston MA	Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Hematopathologist, Cambridge Health Alliance, & Massachusetts General Hospital, Cambridge MA
2009 - 2010	Sarayu Chandrashekar	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, Mercy Medical & University of Maryland, Annapolis MD
2009 - 2010	Bethany Tierno	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, Beverly Hospital, Beverly MA
2010 - 2011	Bilal Ahmad	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, Pathologists' Diagnostic Laboratories, Winston-Salem, NC
2010 - 2011	Jiang-Feng Wang	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Staff Pathologist, Berkshire Medical center, MA
2011 - 2012	Tom Buck	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, Eastern Connecticut Pathology Consultants, CT

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2011 - 2012	Agata Bogusz	Beth Israel Deaconess Medical Center, Boston MA	Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, University of Pennsylvania, Philadelphia PA
2012 - 2013	Thomas Gage	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Hematopathologist, Lahey Hospital and medical center, Burlington MA
2012 - 2013	Quyên Nguyen	Beth Israel Deaconess Medical Center, Boston MA	Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Staff Pathologist, Denver VA Medical Center, Denver CO
2013 - 2014	Brijal Dave	Beth Israel Deaconess Medical Center, Boston MA	Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, Lawrence General Hospital, Lawrence, MA
2013 - 2014	Marianna Schvatzbeyn	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Hematopathologist, New York University, New York NY
2014 - 2015	Yury Sheykin	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Director of Flow Cytometry, Beth Israel Deaconess Medical Center, Boston MA

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2014 - 2015	Robert Willim	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Hematopathologist, Beth Israel Deaconess Medical Center, Boston MA
2015 - 2016	Alexander Carterson	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Medical Director, Red Cross, Chicago IL
2015 - 2016	Hongmei Li	Beth Israel Deaconess Medical Center, Boston MA	Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Pathologist, Ameripath, Milwaukee WI
2016 - 2017	Phillip Micheals	Beth Israel Deaconess Medical Center, Boston MA	Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Molecular Diagnostics fellow. BIDMC
2016 - 2017	Saja Asakrah	Beth Israel Deaconess Medical Center, Boston MA	Research/Scholarly Mentor, Project Mentor, Career Mentor, Co-Mentor/Clinical Mentor	Associate fellowship director, and course director for hematology for a 1 year hematopathology fellowship	Junior faculty, Beth Israel Deaconess Medical Center, Boston MA
2017 - 2018	Anna	Nguyen	Co-Mentor/Clinical Mentor	Teaching faculty	
2018 - 2019	Neda	Mirzamani	Co-Mentor/Clinical Mentor	Teaching faculty	Junior faculty, UCSF
2019 - 2020	Laura	Brown	Co-Mentor/Clinical Mentor	Teaching faculty	Current fellow

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2019 - 2020	Emilio	Ramos	Co-Mentor/Clinical Mentor	Teaching faculty	Current fellow

FACULTY MENTORING

Dates	Name	Position while Mentored	Mentor Type	Mentoring Role	Current Position
2006 - 2016	Rajan Dewar	Director, automated hematology, BIDMC, Boston MA	Co-Mentor/Clinical Mentor	As the Medical Director of hematology, I provided clinical advice and administrative oversight of laboratory issues under Dr Dewar's purview	Director, Hematology Laboratory, University of Michigan
2017 - present	Elena Nedelcu	Assistant Section Director, Blood Bank, UCSF, San Francisco	Career Mentor	Providing career development advice and administrative oversight	Assistant Section Director, Blood Bank, UCSF, San Francisco
2018 - present	Jennifer Woo	Associate director, Coagulation and Transfusion Service	Career Mentor, Co-Mentor/Clinical Mentor	Providing career development advice and clinical advice on complex cases	Associate Director, Coagulation and Transfusion service, UC Irvine
2017 - present	Maria Vergara-Lluri		Career Mentor, Co-Mentor/Clinical Mentor		

RESEARCH AND CREATIVE ACTIVITIES

RESEARCH AND CREATIVE ACTIVITIES SUMMARY

I have a strong interest in laboratory hematology and education. I have authored several book chapters, book sections and edited hematology books. These include the RBC section of the CAP hematology atlas, the CAP bone marrow bench top reference guide, CAP hematology glossary, chapter on hematopathology in the upcoming edition of Rubin's textbook of pathology, a chapter on therapy-related marrow findings, and a book on non-neoplastic hematology and infections.

My current research interests are in the field of quality improvement, laboratory workup of coagulation disorders and clinical microscopy.

RESEARCH AWARDS - PAST

- | | | | |
|----|---|----------------------|-----------------|
| 1. | Research associate | 100% % effort | Montgomery (PI) |
| | Jennie Zoline Foundation Award | 1996 | 1999 |
| | Qualitative Mapping in Barrett Esophagus | | |
| | The major goal of this study was to ‘ map’ the esophagus in patients with Barrett esophagus using immunohistochemical and molecular markers on endoscopic biopsy specimens in an effort to identify predictive markers of dysplasia and or carcinoma. | | |
| | I processed over 700 biopsy samples and conducted DNA ploidy measurements using flow cytometry. I analyzed the data and presented the findings at the national joint meeting of ASCP/CAP where I was awarded the first prize in the platform section presented by a resident. The work led to two publications, and I was the 1st author on one of them (Am J Clin Pathol 2000 Oct;114(4):552-63) | | |
| 2. | Co-investigator | 5% % effort | Dezube (PI) |
| | NIH | 2003 | 2012 |
| | East coast AIDS and Cancer specimen bank | | |
| | The major goal is to sequentially identify and procure tissues from all malignancies developing in the setting of HIV. | | |
| | My responsibility lies in accruing patients and where appropriate verifying diagnoses | | |
| 3. | Principal Investigator | 10% % effort | Bhargava (PI) |
| | Eleanor and Miles Shores Fellowship | 2007 | 2009 |
| | Prognostic markers in Chronic Lymphocytic Leukemia using multi-gene transcriptional profiling | \$ 25000 direct/yr 1 | \$ 25000 total |
| | The major goal of this project is to study CD markers using multi-gene RNA profiling on B-lymphocytes from patients with CLL in order to better identify prognostic markers | | |
| | Study conception and design, data collection and analysis. | | |

PEER REVIEWED PUBLICATIONS

1. Eisen GM, Montgomery EA, Azumi N, Hartmann D-P, Bhargava P, Lippman M, Benjamin S. Qualitative mapping of Barrett Metaplasia: a prerequisite for intervention trials. *Gastrointestinal Endoscopy*; 1999;50(6):814-8.
2. Bhargava P, Eisen G, Holterman, D, Azumi N, Hartmann D-P, Hanfelt J, Benjamin S, Lippman M, Montgomery E. Endoscopic Mapping and Surrogate Markers: Better Surveillance in Barrett Esophagus. - A study of 700 biopsies. *Am J Clin Pathol* 2000 Oct;114(4):552-63.
3. Montgomery E, Goggins M, Zhou S, Argani P, Wilentz R, Kaushal M, Booker S, Romans K, Bhargava P, Hruban R, Kern S. Nuclear localization of DPC4 (Madh4, Smad4) in colorectal carcinomas and relation to mismatch repair/transforming growth factor-beta receptor defects. *Am J Pathol* 2001 Feb;158(2):537-42.

4. Cabal-Manzano R, Bhargava P, Torres-Duarte A, Marshall J, Bhargava P, Wainer IW. Proteolysis-inducing factor is expressed in tumours of patients with gastrointestinal cancers and correlates with weight loss. *Br J Cancer* 2001 Jun 15;84(12):1599-601.
5. Voyadzis JM, Bhargava P, Henderson FC. Tarlov Cysts: a study of 10 cases with review of the literature. *J Neurosurg* 2001 Jul;95(1 Suppl):25-32
6. Bagalore N, Bhargava P, Hawkins MJ, Bhargava P. Sustained response of sarcomatoid renal-cell carcinoma to MAID chemotherapy: case report and review of the literature. *Ann Oncol* 2001 Feb;12(2):271-4.
7. Bhargava P, Rushin JM, Rusnock EJ, Hefter LG, Franks TJ, Sabnis SG, Travis WD. Pulmonary light chain deposition disease: report of five cases and review of the literature. *Am J Surg Pathol.* 2007 Feb; 31(2):267-76. PMID: 17255772
8. Bhargava P, Kallakury BVS, Ross JS, Azumi N, and Bagg A. CD79a is heterogeneously expressed in neoplastic and normal myeloid precursors and megakaryocytes in an antibody clone dependent manner. *Am J Clin Pathol* 2007 Aug; 128(2):306-13.
9. Braza JM, Sullivan RJ, Bhargava P, Pantanowitz L, Dezube BJ. Images in HIV/AIDS. Pericardial primary effusion lymphoma. *AIDS Read.* 2007 May; 17(5):250-2. PMID: 17532660
10. Bhargava P, Longhi LP. Images in clinical medicine. Peripheral smear with *Malassezia furfur*. *N Engl J Med.* 2007 Jun 14; 356(24):e25. PMID: 17568022
11. Bhargava P, Kallakury BV, Ross JS, Azumi N, Bagg A. CD79a is heterogeneously expressed in neoplastic and normal myeloid precursors and megakaryocytes in an antibody clone-dependent manner. *Am J Clin Pathol.* 2007 Aug; 128(2):306-13. PMID: 17638667
12. Marotti J, Bryan B, Bhargava P. Mild anemia, microcytosis and target cells in a man from Thailand. *Lab Medicine* 2007 Sept; 38(9):539-42.
13. Bhargava P, Parker JA, Dezube BJ. Pitfalls of diagnosis based on abnormal flow cytometry and [(18)F]fluorodeoxyglucose positron emission tomography. *Clin Lymphoma Myeloma.* 2008 Apr; 8(2):117-20. PMID: 18501106
14. Braza J, Bhargava P. A 71 Year-Old-Male Presented to the Emergency Department with Dizziness, Progressive Lethargy and Confusion for 5 Days. *Images in clinical Medicine.* *N Eng J Med* 2008; Oct 30:1941.
15. Braza J, Bhargava P. Medical Mystery: A 71-year-old-man with pancytopenia- The answer. *N Eng J Med* 2008; Dec 25:2845-46.
16. Marzocchetti A, Wuthrich C, Tan CS, Tompkins T, Bernal-Cano F, Bhargava P, Ropper AH, Koranik IJ. Rearrangement of the JC virus regulatory region sequence in the bone marrow of a patient with rheumatoid arthritis and progressive multifocal leukoencephalopathy. *J Neurovirol.* 2008 Oct; 14(5):455-8. PMID: 18989816. PMCID: PMC2643300
17. Braza JM, Bhargava P. Medical mystery: A 71-year-old man with pancytopenia--the answer. *N Engl J Med.* 2008 Dec 25; 359(26):2845-6; discussion 2846. PMID: 19109583
18. Tan CS, Dezube BJ, Bhargava P, Autissier P, Wüthrich C, Miller J, Koranik IJ. Detection of JC virus DNA and proteins in the bone marrow of HIV-positive and HIV-negative patients:

- implications for viral latency and neurotropic transformation. *J Infect Dis.* 2009 Mar 15; 199(6):881-8. PMID: 19434914. PMCID: PMC2893283
19. Pohlmann R, Bhargava P. Acute monoblastic leukemia with abnormal granules and disseminated intravascular coagulation: diagnostic pitfalls. *Am J Hematol.* 2009 Nov; 84(11):773-5. PMID: 19806662
 20. Bhargava P, Pantanowitz L, Pinkus GS, Pinkus JL, Paessler ME, Rouillet M, Gautam S, Bagg A, Kadin ME. Utility of fascin and JunB in distinguishing nodular lymphocyte predominant from classical lymphocyte-rich Hodgkin lymphoma. *Appl Immunohistochem Mol Morphol.* 2010 Jan; 18(1):16-23. PMID: 19550297
 21. Haspel RL, Bhargava P, Gilmore H, Kane S, Powers A, Sepehr A, Weinstein AR, Schwartzstein RM, Roberts DH. Successful implementation of a longitudinal, integrated pathology curriculum during the third year of medical school. *Arch Pathol Lab Med.* 2012 Nov; 136(11):1430-6. PMID: 23106589
 22. Bogusz AM, Bhargava P. Recurrent histiocytic necrotizing lymphadenitis with a long latency in a patient with autoimmunity: a case report and review of literature. *Int J Surg Pathol.* 2013 Jun; 21(3):287-96. PMID: 23204033
 23. Dave B, Kaplan J, Gautam S, Bhargava P. Plasmacytoid dendritic cells in lymph nodes of patients with human immunodeficiency virus. *Appl Immunohistochem Mol Morphol.* 2012 Dec; 20(6):566-72. PMID: 22531685
 24. Bogusz A, Bhargava P. An Unusual Patient With Shortness of Breath- Clinical, radiologic and pathologic pitfalls. *American Journal of Hematology* 2014 May; 89(5): 558-63.
 25. Kats LM, Reschke M, Taulli R, Pozdnyakova O, Burgess K, Bhargava P, Straley K, Karnik R, Meissner A, Small D, Su SM, Yen K, Zhang J, Pandolfi PP. Proto-oncogenic role of mutant IDH2 in leukemia initiation and maintenance. *Cell Stem Cell.* 2014 Mar 06; 14(3):329-41. PMID: 24440599. PMCID: PMC4380188
 26. Xie H, Hanai J, Ren JG, Kats L, Burgess K, Bhargava P, Signoretti S, Billiard J, Duffy KJ, Grant A, Wang X, Lorkiewicz PK, Schatzman S, Bousamra M, Lane AN, Higashi RM, Fan TW, Pandolfi PP, Sukhatme VP, Seth P. Targeting lactate dehydrogenase--a inhibits tumorigenesis and tumor progression in mouse models of lung cancer and impacts tumor-initiating cells. *Cell Metab.* 2014 May 06; 19(5):795-809. PMID: 24726384. PMCID: PMC4096909
 27. Bogusz AM, Joyce R, Kolodny G, Buck T, Pihan G, Bhargava P. An unusual patient with shortness of breath--clinical, radiologic, and pathologic pitfalls. *Am J Hematol.* 2014 May; 89(5):558-63. PMID: 24496963
 28. Jain S, Stroopinsky D, Yin L, Rosenblatt J, Alam M, Bhargava P, Clark RA, Kupper TS, Palmer K, Coll MD, Rajabi H, Pyzer A, Bar-Natan M, Luptakova K, Arnason J, Joyce R, Kufe D, Avigan D. Mucin 1 is a potential therapeutic target in cutaneous T-cell lymphoma. *Blood.* 2015 Jul 16; 126(3):354-62. PMID: 26048911. PMCID: PMC4504948
 29. Dannheim K, Bhargava P. A rare finding of brown fat in bone marrow as a mimic for metastatic disease. *Am J Hematol.* 2016 May; 91(5):545-6. PMID: 26872861
 30. Nguyen Q, Bhargava P. HHV8 Associated Extracavitary Primary Effusion Lymphomas in HIV Seronegative Subjects. Case Report and Review of the Literature. *Human Pathology* 2016; 6: 19-25.

31. Weinberg OK, Sohani AR, Bhargava P, Nardi V. Diagnostic work-up of acute myeloid leukemia. *Am J Hematol.* 2017 Mar; 92(3):317-321. PMID: 28066929
32. Jain S, Washington A, Leaf RK, Bhargava P, Clark RA, Kupper TS, Stroopinsky D, Pyzer A, Cole L, Nahas M, Apel A, Rosenblatt J, Arnason J, Kufe D, Avigan D. Decitabine Priming Enhances Mucin 1 Inhibition Mediated Disruption of Redox Homeostasis in Cutaneous T-Cell Lymphoma. *Mol Cancer Ther.* 2017 10; 16(10):2304-2314. PMID: 28729399. PMCID: PMC5628140
33. Asakrah SK, Bhargava P, Bryke CR. EBV-positive, HHV8-negative large B-cell lymphoma with an unusual germinotropic growth pattern in an immunocompetent patient. *Clin Case Rep.* 2018 Sep; 6(9):1818-1824. PMID: 30214771. PMCID: PMC6132110
34. Brunner AM, Kim PG, Sadrzadeh H, Drapkin BJ, Sprague KA, Sloan JM, Chai-Ho W, Bhargava P, Pozdnyakova O, Fathi AT. Clustered incidence of adult acute promyelocytic leukemia. *Leuk Res.* 2018 11; 74:47-50. PMID: 30292128
35. Shmukler BE, Rivera A, Bhargava P, Nishimura K, Hsu A, Kim EH, Trudel M, Rust MB, Hubner CA, Brugnara C, Alper SL. Combined genetic disruption of K-Cl cotransporters and Gardos channel KCNN4 rescues erythrocyte dehydration in the SAD mouse model of sickle cell disease. *Blood Cells Mol Dis.* 2019 Jul 17; 79:102346. PMID: 31352162
36. Shmukler B, Rivera A, Bhargava P, Nishimura K, Kim EH, Hsu A, Wohlgemuth J, Morton J, Snyder M, Franceschi LD, Rust M, Hubner C, Brugnara C, Alper S. Genetic disruption of KCC cotransporters in a mouse model of thalassemia intermedia. *Blood Cells Molecules and Diseases* (submitted).

NON-PEER REVIEWED PUBLICATIONS

1. Bhargava P, Hiatt K. Editor: Mann H. Brain cutting guide for pathology residents. Georgetown University, Washington DC. 1998
2. Bhargava P, Ewing A. Co-editors, on-line grossing manual for pathology residents, Georgetown University, Washington DC. 2001
3. Bhargava P: co-editor for the hematopathology section of the grossing manual for pathology residents, Beth Israel Deaconess Medical Center, Boston MA (2002 onwards)
4. Bhargava P. Quantitative D-Dimer assay. BIDMC on-line laboratory manual, prepared for distribution amongst BIDMC and affiliated hospital group physicians regarding appropriate utilization of quantitative D-Dimer assays and appropriate testing algorithms. 2003
5. Bhargava P, Pihan G, Jaffe Elaine. Autoimmune Lymphoproliferative Syndrome, ASH image Bank, June 2003; 100731.
6. Bhargava P. Thrombophilia workup. BIDMC on-line laboratory manual, prepared for distribution amongst BIDMC and affiliated hospital group physicians regarding appropriate utilization and timing of testing for thrombophilia workups. 2004
7. Bhargava P: Contributor and section editor for hematopathology. *Clinical Pathology Handbook*. 1st edition (2006-07), 2nd edition (2007-08), 3rd edition (2008-09), 4th edition (2009-2010) Authors: Delaney M and other chief residents, Beth Israel Deaconess Medical Center, Boston MA
8. Chandrashekar S, Bhargava P. *Basic Hematology Orientation Guide*. 2008

9. Bhargava P. 2011 CPIP-B: Online Clinical Pathology Improvement Program (SAM eligible) © 2011 College of American Pathologists - On-line CME Self Assessment Module released December, 2011.
10. Bhargava P and other members of the Hematology and Clinical Microscopy Resource Committee, College of American Pathologists, Hematology and Clinical Microscope Glossary (2014, 2015, 2016, 2017, 2018, 2019)
11. Bhargava P & Shier L. Acanthocytosis. 2014 VPBS-A Acanthocytosis (Slide 13VH06); CAP Proficiency Testing case write-up.
12. Bhargava P, Frater J, Shier LR. Chronic Lymphocytic Leukemia 2015 VPBS-A; CAP Proficiency Testing case write-up.
13. Bhargava P. 2015 HPATH-A: Kikuchi-Fujimoto Disease. Online Educational Activity. ©2015 College of American Pathologists. Online CME/CE education activity released November 2, 2015.
14. Bhargava P, Frater J. Platelet satellitism 2015 VPBS-B; CAP Proficiency Testing case write-up.
15. Bhargava P, Nakashima MO. Response to question regarding band counts and sepsis protocol. Q&A column. CAPToday March 17, 2017.
16. Bhargava P, Etzell J. Section editor. Red Blood Cells in Color Atlas of Hematology. Ed. Glassy E. 2nd Edition. College of American Pathologists, Northfield IL.
17. Bhargava P. Microangiopathic hemolytic anemia. HE-B 2018 CAP proficiency testing write-up.
18. Bhargava P, George T, Camfield D, Godfrey D, Riley B, Rhyner M. Panelists for the Hematology round table: rules, reference ranges, POC testing. CAP Today. November 2018, College of American Pathologists, Northfield IL
19. Bhargava P. Leukoerythroblastic picture; EHE-B 2018. CAP Proficiency testing write-up
20. Bhargava P. Response to question regarding reporting of absolute count in hematology differential counts. Q&A column. CAPToday February 2019. College of American Pathologists, Northfield IL
21. Fedoriw Y, Bhargava P, Bradley KT, Frater JL, Lewis MR, Vergara-Lluri M, Thommasen A. Bone Marrow Benchtop Reference Guide- An illustrated Guide for cell morphology. College of American Pathologists, Northfield IL.

BOOKS AND CHAPTERS

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1. Bhargava P, and Pantanowitz L, Pinkus GS, Pinkus JL, Paessler ME, Rouillet M, Gautam S, Bagg A, Kadin ME. Utility of Fascin and JunB in Distinguishing Nodular Lymphocyte Predominant from Classical Lymphocyte Rich Hodgkin Lymphoma. Applied Immunohistochemistry & Molecular Morphology [2009 Jun 22 Epub ahead of print]; 2010 Jan 18(1):16-23.
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4. Kats LM, Reschke M, Taulli R, Pozdnyakova O, Burgess K, Bhargava P, Straley K, Karnik R, Meissner A, Small D, Su SM, Yen K, Zhang J, Pandolfi PP. Proto-Oncogenic Role of Mutant IDH2 in Leukemia Initiation and Maintenance. Cell Stem Cell [2014 Jan 16 Epub ahead of print] 2014 Mar 6; 14(3): 329-41.

This is a mouse model study evaluating the role of mutant IDH2 gene in leukemia. I evaluated peripheral smears, marrow, spleen and thymus samples of control and experimental mice. We found that while mice with mutant FLT3 develop a myeloproliferative disease like picture, compound transgenic animals with both FLT3 and IDH2 mutations develop acute myeloid (AML-like) and lymphoid (ALL-like) malignancies.

5. Jain S, Stroopinsky D, Yin L, Rosenblatt J, Alam M, Bhargava P, Clark RA, Kupper TS, Palmer K, Coll MD, Rajabi H, Pyzer A, Bar-Natan M, Luptakova K, Arnason J, Joyce R, Kufe D, Avigan D. Mucin 1 is a potential therapeutic target in cutaneous T-cell lymphoma. 2015 Blood July 16; 126(3): 354-362.

The aim of this study is to evaluate MUC1 as a potential therapeutic target in cutaneous T-cell lymphoma (CTCL). I evaluated primary human tissue samples from patients with CTCL for MUC1 expression by immunohistochemical staining and demonstrated high expression levels. To assess MUC1 as a therapeutic target, I conducted a blinded evaluation of mice xenografts sections, both from control animals treated with saline and treatment group treated with an MUC1 inhibitory peptide. I assessed MUC1 expression by immunohistochemical staining as well as scored apoptosis using a TUNEL assay. We demonstrated increased apoptosis in mice treated with the inhibitory peptide, and this was attenuated by antioxidant (NAC) treatment.

6. Bhargava P, Etzell J. **Section Editor**. Red Blood Cells in Color Atlas of Hematology. Ed. Eric Glassy. Publisher: College of American Pathologists, Northfield IL
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