

CURRICULUM VITAE

Date Prepared: 4/2019

I. General Information:

Name: **Mukesh K. Jain MD FAHA**
Ellery Sedgwick Chair & Distinguished Scientist
Professor of Medicine
Chief Academic Officer, University Hospitals Health System
Chief Scientific Officer, Harrington Discovery Institute
Vice Dean for Academic Affairs, Case Western Reserve University
Visiting Professor, University of Oxford, United Kingdom

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Education:

1991	MD	<i>summa cum laude</i> , University of Buffalo School of Medicine
1987	BS	<i>summa cum laude</i> , University of Buffalo

Postdoctoral Training:

Internship and Residency

1994	Chief Resident, Brockton/West Roxbury, Veterans Administration Medical Center
1992 – 1994	Medical Resident, Beth Israel Hospital, Boston, MA
1991 – 1992	Medical Intern Beth Israel Hospital, Boston, MA

Clinical and Research Fellowships

2000 - 2000	Research Fellow, Brigham & Women's Hospital (Supervisor: Mu-En Lee MD PhD)
1997 – 2000	Clinical Fellow, Cardiovascular Division, Brigham & Women's Hospital, Harvard Medical School (Supervisor: Peter Libby MD)
1994 – 1997	Research Fellow, Harvard School of Public Health (Supervisor: Edgar Haber MD)

Licensure and Certifications:

- 2006 – Ohio Board of Registration in Medicine
- 2005 – Fellow, American Heart Association
- 2002 – Diplomate, American Board of Cardiovascular Disease
- 1994 – Diplomate, American Board of Internal Medicine
- 1994 – 2008 Massachusetts Board of Registration in Medicine

Academic Appointments:

- 2019- Visiting Professor, University of Oxford, United Kingdom
- 2019- Co-Director, Oxford-Harrington Rare Disease Centre
- 2019 - Vice Dean of Academic Affairs, Case Western Reserve University
- 2006 – Professor of Medicine with tenure, Case Western Reserve University
- 2006 – Ellery Sedgwick Jr. Chair and Distinguished Scientist, Case Western Reserve University and University Hospitals of Cleveland
- 2015 – 2019 Vice Dean for Medical Sciences, Case Western Reserve University
- 2006 – 2015 Founding Director, Case Cardiovascular Research Institute, Case Western Reserve University
- 2004 – 2006 Director, Cardiovascular Transcriptional Biology Program, Brigham & Women’s Hospital, Harvard Medical School
- 2004 – 2006 Assistant Professor, Harvard Medical School
- 2000 – 2004 Instructor of Medicine, Harvard Medical School
- 1998 – 1999 Research Associate, Harvard School of Public Health

Hospital Appointments:

- 2019 - Chief Academic Officer, University Hospitals Health System
- 2017 - Founding Director, University Hospitals Research Division
- 2015 – Chief Scientific Officer, University Hospitals Health System
- 2015 – Chief Scientific Officer, Harrington Discovery Institute
- 2006 – Chief Research Officer, Harrington-McLaughlin Heart & Vascular Institute
- 2006 – Staff Physician, University Hospitals Health System
- 2006 – 2016 Associate Chief of Research, University Hospitals Health System
- 2012 – 2015 Scientific Director, Harrington Discovery Institute
- 2000 – 2006 Associate Physician, Brigham & Women’s Hospital

Major Committee Assignments:

- 2019 - Member, Cleveland Institute of Computational Biology Internal Advisory Board
- 2019 - Member, Case Comprehensive Cancer Center Institutional Advisory Committee
- 2019 – Member, Board for the National Center for Regenerative Medicine, Case Western Reserve University
- 2019 - Member, Board of Governors, Cleveland Brain Health Institute,
- 2016 – Chair, Academic Strategic Planning Committee, University Hospitals
- 2016 – Chair, Research Compensation Committee, University Hospitals
- 2016 – Member, Honors Committee, Case Western Reserve University
- 2016 – Member, Search Committee Chair of Pediatrics, University Hospitals
- 2016 – Member, School of Medicine Research Portfolio Council, Case Western Reserve University
- 2016 – Member, Hematology/Oncology Chair Search Committee, University Hospitals

Major Committee Assignments (Continued):

- 2016 – Member, Rheumatology and Endocrinology Search Committee, University Hospitals
- 2015 – Member, Search Committee, Chair of Neurosciences, University Hospitals
- 2015 – Chair, Seldin-Smith Award Committee, American Society of Clinical Investigation
- 2014 – Chair, Search Committee for HDI faculty recruitment
- 2014 – Member, Dean’s Expanded Leadership Committee, Case Western Reserve University
- 2013 – Chair, Search Committee Distinguished Harrington Scholars, Harrington Discovery Institute
- 2012 – Member, Oversees Harrington Prize selection activities, Harrington Discovery Institute and American Society for Clinical Investigation
- 2017 External Audit Reviewer, Heart & Stroke | Richard Lewar Centre of Excellence in Cardiovascular Research, University of Toronto
- 2015 – 2016 Member, Faculty Distinguished Research Award Selection Committee, Case Western Reserve University
- 2014 – 2016 Chair, Search Committee for Oscar Ratnoff Professorship in Medicine and Hematology, Case Western Reserve University
- 2006 – 2016 Chair, Faculty Recruitment Search Committee, Case Cardiovascular Research Institute, Case Western Reserve University
- 2010 – 2015 Member, Dean’s Space Committee, Case Western Reserve University
- 2007 – 2015 Organizer, Case Cardiovascular Center Annual Research Retreat
- 2007 – 2014 Member, Research Committee, Case Western Reserve University School of Medicine
- 2012 Member, Search Committee, Chairman of Medicine Louis Stokes VAMC
- 2012 Member, Search Committee, Chairman Dept. of Biomedical Engineering, Case Western Reserve University
- 2008 – 2011 Member, Dean’s Research Advisory Board, Case Research Institute
- 2008 – 2011 Member, Department of Medicine Committee on Appointments, Promotions, and Tenure, University Hospitals
- 2010 Member, Search Committee, Chairman of Medicine, Louis Stokes Veterans Affairs Medical Center
- 2009 Implemented the institution of a Career Development & Mentoring Seminar Series, Case Western Reserve University
- 2008 Member, Scientific Advisory Board, International Society of Thrombosis & Hemostasis
- 2007 Member, Search Committee, Chief of Cardiology, Louis Stokes Veterans Affairs Medical Center
- 2006 Member, Search Committee, Center for Human Genetics, University Hospitals
- 2003 – 2006 Member, Named Fellowship Selection Committee, Brigham & Women’s Hospital
- 2003 – 2005 Chair, Faculty Recruitment Search Committee, Brigham & Women’s Hospital
- 2002 – 2005 Member, Clinical Cardiology Executive Committee, Brigham & Women’s Hospital
- 2002 – 2005 Member, FLAMES Committee, Brigham & Women’s Hospital
- 2000 – 2005 Member, Cardiovascular Fellowship Selection Committee, Brigham & Women’s Hospital

Professional Societies:

- 2012- Member, Association University Cardiologists
- 2009 - Member, Association of American Physicians
- 2005 - Member, American Society for Clinical Investigation
- 2002 – Member, American Society for Biochemistry and Molecular Biology
- 1997 – Member, American Association for the Advancement of Science
- 1997 – Member, American Heart Association, Basic Science Council
- 1997 – Member, The Massachusetts Medical Society
- 1995 – Member, American Heart Association

Community Service Related to Professional Work:

- 2018- NHLBI Board of External Experts (BEE)
- 2017 - Co-Founder, Physician Scientist Support Foundation (Co- with Robert Lefkowitz, Brian Kobilka, Tadataka Yamada, Vivian Cheung and Paul Utz)
- 2017 - Member, Judah Folkman and Earl Benditt Award Committee, North American Vascular Biology Organization (NAVBO)
- 2005 - Grant Reviewer, NHLBI VCMB study section
- 2003 - Grant Reviewer, American Heart Association, Northeast Affiliate
- 2002 - Abstract Reviewer, American Heart Association
- 2015 - 2016 Member, Organizing Committee, International Vascular Biology Meeting, Boston, MA
- 2012 - 2016 Elected, Vice-President American Society for Clinical Investigation. Served as President-elect and President and Past President
- 2012 Implemented the Young Physician Scientist Award, ASCI
- 2011 - 2014 Elected Councilor, North American Vascular Biology Organization (NAVBO)
- 2010, 2012, 2014 Co-organizer, FASEB meeting “Biology and Pathobiology of Krüppel-like Factors” Steamboat Springs, Colorado
- 2014 Co-Organizer “Cardiovascular Inflammation and Remodeling” NAVBO meeting at Yale University
- 2010 Chair, NIH Vascular Cell & Molecular Biology Study Section
- 2007 Standing member NHLBI, VCMB study section
- 2005 Wellcome Trust, UK

Editorial Boards:

- 2007 - Reviewer, *Journal of Clinical Investigation*, *Journal of Experimental Medicine*, *American Journal of Pathology*, *Gene*
- 2007 - Reviewer, *Nature Immunology*, *Cell Metabolism*, *Communication*
- 2006 - Editorial Board, *Journal of Molecular and Cellular Cardiology*
- 2006 - Guest Editor, *Circulation Research* series on Transcriptional Biology
- 2006 - Reviewer, *Arteriosclerosis*, *Thrombosis and Vascular Biology*
- 2005 - Reviewer, *Nature*, *Nature Cell Biology*, *Nature Medicine*, *Nature Reviews Microbiology*, *Blood*
- 2004 - Editorial Board, *Arteriosclerosis*, *Thrombosis and Vascular Biology*
- 2003 - Reviewer, *Circulation*, *Oncogene*
- 2003 - Reviewer, *Science*
- 2003 - Reviewer, *Molecular and Cellular Biology*, *Circulation Research*
- 2002 - Reviewer, *The Journal of Biological Chemistry*

Editorial Boards (Continued):

- 2014, 2016 Advisory Board for International Vascular Biology Meeting

2007 – 2016 Editorial Board, *Circulation Research*
 2008 – 2011 Consulting Editor, *Journal of Clinical Investigation*
 2008 – 2011 Member, Scientific Advisory Board of the XXIInd International Society for Thrombosis and Hemostasis Congress, Boston, MA

Awards and Honors: (* by election)

2018 Physician of the Year, University Hospitals
 2017 Inducted, National Academy of Medicine (formerly Institute of Medicine)
 2016 Elected, National Academy of Medicine (formerly Institute of Medicine)*
 2016 Commencement Address, State University of Buffalo School Jacobs School of Medicine and Biomedical Research
 2016 SUNY Buffalo Distinguished Alumnus Award
 2015 Recipient of Judah Folkman Award in Vascular Biology (NAVBO)
 2015 Faculty Distinguished Research Award, Case Western Reserve University
 2014 President, American Society Clinical Investigation
 2013 President-elect, American Society Clinical Investigation
 2012 Elected Vice-President, American Society Clinical Investigation
 2012 Russell Ross Memorial Lectureship in Vascular Biology, American Heart Association Honorary Lecture
 2011 Elected, Association of University Cardiologists
 2011 Elected, Councilor, NAVBO
 2010 - 2011 Chair, Vascular Cell & Molecular Biology (VCMB) Study Section, NHLBI
 2009 Elected, American Association of Physicians (AAP)*
 2009 Peter Agre Award for Research Mentorship, University Hospitals*
 2007 Study Section Standing Member, Vascular Cell & Molecular Biology (VCMB), NHLBI
 2006 Ellery Sedgwick Chair and Distinguished Scientist, Case Western Reserve University
 2006 Chief Research Officer, Harrington-McLaughlin Heart & Vascular Institute, Case Medical Center
 2005 – 2006 Harvard Medical School Faculty Mentoring Award*
 2005 Elected, American Society Clinical Investigation (ASCI)*
 2005 Elected, Fellow of the American Heart Association*
 2001 Junior Faculty Award, AstraZeneca Pharmaceuticals New England Cardiovascular Research Competition
 1997 Bristol Meyers Squibb Award, American Heart Association
 1995 Young Investigator Award, Vascular Biology Meeting
 1991 *summa cum laude*, University of Buffalo, School of Medicine
 1990 Alpha Omega Alpha Medical Honor Society
 1987 *summa Cum Laude*, University of Buffalo
 1983 – 1987 University Presidential Honors Scholar

II. Research, Teaching, and Clinical Contributions

(A) Report of Academic Activities:

(1) Research, Teaching, and Service:

(a) Personal Research Accomplishments - Dr. Jain is recognized for the discovery of the transcription factor family Krüppel-like factors (KLFs) as nodal regulators of metabolism, immunity and the cardiovascular system. This body of work has been published in top-tier peer-reviewed journals and continuously supported for 15 years through funding from the National Institutes of Health, American Heart Association, and the American Diabetes Association. He has translated this work from animals to humans and established KLFs as key pharmacologic targets for therapeutic gain.

(b) Institutional Leadership – Dr. Jain served as founding Director of the Cardiovascular Research Institute at Case Western Reserve University and Chief Research Officer for the Harrington Heart & Vascular Institute, University Hospitals Case Medical Center from 2006-2015. Under his leadership, a robust cardiovascular research program was established that spans from basic to clinical research. Under his direction, the program grew to nearly 100 individuals (faculty, trainees, nurses, and staff). Extramural funding has exceeded \$40M in NIH dollars since inception. In addition, the clinical trials program expanded significantly and now participates in ~100 clinical trials, follows ~2500 patients, and is supported by an annual budget of ~ \$20M.

In 2012, Dr. Jain was named Chief Scientific Officer of the Harrington Discovery Institute (HDI), a \$350M initiative that supports breakthrough research by physician-scientists, he oversees (a) the international Harrington Scholar-Innovator grant program, (b) selection of the annual Harrington Prize for Innovation in Medicine awardee (given jointly with the ASCI), (c) interactions of the Institute with major foundations and academic medical centers, and (d) faculty recruitment to the Harrington Discovery Institute. Under Dr. Jain's leadership, the institute provides over ~\$6 million each year in financial support to 35 Harrington scholars across North America and the United Kingdom, as well as support to physician scientists in the Cleveland community. In 2019, Dr. Jain and colleagues established the Harrington-Oxford Rare Disease Centre that will oversee support for Rare Disease scholars across the United Kingdom and United States. In recognition of this efforts and contributions, Dr. Jain was also appointed as a Visiting Professor at the University of Oxford.

In 2015, he was appointed Chief Scientific Officer and in 2019 Chief Academic Officer of the University Hospitals Health System and Vice Dean for Academic Affairs at Case Western Reserve University School of Medicine. His efforts include developing strategies, priorities, and programs to enhance biomedical research efforts of the health system in collaboration with the School of Medicine. He provides oversight of all basic and clinical research programs in the health system that includes annual research funding of nearly \$180M and ~150 full-time staff. In this capacity, Dr. Jain has overseen the restructuring of the academic strategic plan for the health system by (a) setting an academic vision, (b) establishing an academic strategy framework including strategic initiatives and goals, (c) developing a financial proforma for the academic programs, (d) developing a comprehensive research merit pay program for faculty, (e) developing Centers of Excellence across a broad range of disciplines, and (f) ensuring integration between the hospital health system and Case Western Reserve University's School of Medicine programs and initiatives. This has led to a more defined vision and collaboration of resources across both the clinical and basic research programs.

(1) Research, Teaching, and Service (Continued):

(c) National Roles – Dr. Jain is past President of the American Society for Clinical Investigation, one of the oldest and most prestigious honorific societies for physician-scientists in the United States. As president of the American Society for Clinical Investigation, he co-founded the Don Seldin-Holly Smith award for pioneering research. He has co-lead efforts to raise over \$600k to date and remains actively engaged with the ASCI as Chair of the selection of recipients for the Donald Seldin-Holly Smith Award for Pioneering Research. Dr. Jain continues to oversee annual award selection activities for the ASCI-Harrington Prize for Innovation in Medicine as well.

In addition to supporting breakthrough discoveries as listed above, in 2017 Drs. Jain, Robert Lefkowitz, Brian Kobilka, Tadataka Yamada, Vivian Cheung and Paul Utz co-founded the Physician Scientist Support Foundation to address the concerns of the declining numbers of physician scientists. This newly formed 501(c) (3) non-profit strives to build a sustainable and diverse physician-scientist workforce through financial and research support for fundamental discoveries that improve human health. Dr. Jain remains committed to furthering research by and improving the numbers of physician-scientists globally.

(2) Funding:

(a) Current: (Jain-PI)

01/14 – 12/25	Prentiss Strong Heart Program (Jain-PI) \$287,500/yr
01/19 - 12/23	American Heart Association - Paul G. Allen Frontiers Group Initiative in Brain Health and Cognitive Impairment Award \$2,400,000/yr
01/19 - 12/23	Leducq Foundation Transatlantic Network of Excellence Transcription factor KLF2 and cardiovascular disease \$232,505/yr
01/17 – 12/23	National Institute of Health R35HL135789-01 (Jain-PI) KLF control of aging and age-associated cardiovascular disease \$951,000/yr
01/17 – 12/21	National Institute of Health DK111468-01 (Jain-PI) KLF15 in skeletal muscle lipid metabolism \$336,241/yr
02/17 - 09/21	National Institute of Health R01HL130509 (Jain-PI) KLF2 counters vascular immunologic dysfunction in child cerebral malaria \$42,346/yr
09/16 – 08/21	National Institute of Health T32HL134622-01 (Jain –PI) Case Western Reserve University, Cardiovascular Research Training Program \$398,195/yr

(b) Past: (Jain –PI)

09/16 - 06/20 National Institute of Health R01HL134544 (Jain-co-I)
Cellular mediators of vascular inflammation in treated HIV-infection

09/14 – 04/19 National Institute of Health 1R01HL123098 (Jain/MacCrae Co-PI)
Transcriptional control of endothelium in APS by KLFs

01/13 – 12/18 Established Investigator Award, American Heart Association

09/16 – 08/20 National Institute of Health R01HL134773-01
Myeloid KLF2 and Thromboinflammation (relinquished to accept R35 award)

01/14 – 12/18 National Institute of Health 1R01HL119195
KLF15 and Cardiac metabolism (relinquished to accept R35 award)

01/13 – 12/17 National Institute of Health RO1 HL086548
KLF2, monocyte biology, and vascular inflammation (relinquished to accept R35 award)

04/04 – 09/16 National Institute of Health RO1 HL075427
KLF4, monocyte biology, and vascular injury

01/12 – 05/16 National Institute of Health, R01HL1124861
KLF15 in vascular disease

09/10 – 08/15 National Institute of Health T32HL105338
Cardiovascular Research Training Program

12/10 – 11/15 National Institute of Health R01NR012642 (PI: McComsey, Co-PI Jain)
Inflammation, Heart, Bone

04/10 – 06/14 National Institute of Health R01HL097593
KLF4 and endothelial cell biology

07/07 – 06/12 National Institute of Health RO1 HL084154
KLF15 as a novel regulator of cardiomyocyte biology

09/09 – 08/11 National Institute of Health RC2HL101417 PI Redline (Jain Co-PI)
Phase II Trial of Sleep Apnea Treatment to Reduce Cardiovascular Morbidity

08/04 – 06/13 National Institute of Health 2RO1 HL076754
KLF2 as a regulator of endothelial cell biology

09/01 – 09/06 National Institute of Health RO1 HL69477
Smad3 as an inhibitor of atherogenesis

01/03 – 12/05 American Diabetes Association Junior Faculty Award
KLF15 as a regulator of GLUT4

01/02 – 12/04	American Heart National Grant-in-Aid KLF15 as a regulator of smooth muscle cell growth and Differentiation
07/00 – 06/02	American Heart Association Local Grant-in-Aid Smad3 in macrophage biology
07/98 – 01/03	National Institutes of Health (K08) Role of SmLIM in vascular smooth muscle cells

(c) Current (Jain -Mentored grants):

07/17 – 06/22	National Institute of Health T32 GM007250 (PI Jain/Fan)
08/17 – 07/21	National Institute of Health F30 HL139014 (PI D. Sweet)
09/14 – 07/19	National Institute of Health K08 HL1121311 (PI Nayak)
07/17 – 06/19	AHA award 17POST33650110 (PI Y. Shen)
06/16 – 05/19	National Institute of Health F30 AG054237 (PI P. Hsieh)

(d) Past (Jain-Mentored Grants)

01/16 – 12/20	National Institute of Health K08 HL123551 (PI Zhang)
09/15 - 07/18	National Institute of Health K01 DK10492 (PI A. Prosdocimo)
07/12 – 06/16	American Heart Association Award SDG12050558 (PI-Y. Lu)
07/12 – 06/16	American Heart Association Award 12SDG12070077 (PI-X. Liao)
09/09 - 08/14	National Institute of Health K99/R00 HL097023 (PI-G. Mahabaleshwar PhD)
05/09 - 04/14	National Institute of Health 1K08HL094660-01 (PI- D Jeyaraj MD)
01/11 - 12/13	Hemostasis & Thrombosis Research Society Mentored Research Award (PI – L.Nayak, MD)
08/08 - 07/13	National Institute of Health K99/R00 HL087595 (PI- Z. Lin PhD)
07/09 - 07/13	American Heart Association Post-doctoral grant (PI- N Sharma PhD)
04/08 - 03/13	National Institute of Health K01AR054114 (PI- H. Das PhD)
05/07 - 04/12	National Institute of Health K08HL086614 (PI-S. Haldar MD)

(d) Past (Jain-Mentored Grants) (Continued)

04/07 - 03/12	National Institute of Health K08HL083090 (PI-A. Hamik MD PhD)
04/07 - 03/12	National Institute of Health K01HL088740 (PI- G.B. Atkins MD PhD)
01/07 - 12/11	Amos Medical Faculty Development Program Award/Robert Wood Johnson Foundation (PI- G.B. Atkins MD PhD)
02/05 - 12/09	National Institute of Health K08HL079072 (PI-A. Proweller MD PhD)
07/08 - 06/09	Heart Rhythm Society Fellowship in Pacing and Cardiac Electrophysiology (PI- D Jeyaraj MD)
07/07 - 06/09	American Heart Association Post-doctoral Award (PI- F. Kapadia PhD)
07/07 - 06/09	American Heart Association Post-doctoral Award (PI- D Kawanami MD PhD)
07/06 – 07/08	American Heart Association Award 0635579T (PI-Z Lin)
08/04 - 07/07	National Institute of Health F32HL078183 (PI-A Kumar PhD)
07/04 - 06/07	National Institute of Health K01DK064950 (PI- S Gray PhD)
05/04 - 04/07	National Institute of Health F32HL077052 (PI-S Fisch PhD)
09/01 - 08/06	National Institute of Health K08HL067755 (PI – M Feinberg MD)

(B) Report of Teaching:

(1) Clinical Setting:

(a) Brigham & Women’s Hospital/Harvard Medical School:

2000 – 2006	Clinical Cardiology Service and Cardiac Surgery Service Attending Oversee and teach 1 medical student; 2-3 interns; 1 resident; 1 cardiology fellow 6-8 weeks/year
2000 – 2006	Attending Preceptor – Cardiology Fellow Clinic Oversee 3-5 cardiology fellows Once/month
2003 – 2006	2 Preceptor – Introduction to Clinical Medicine; two medical students per semester bi-weekly for 2 hour sessions.

(b) University Hospitals of Cleveland/Case Western Reserve University:

2006 -	Clinical Cardiology Consult Service
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(2) Research setting:

- 08/06 – Case Western Reserve University, Cleveland; PI of cardiovascular research laboratory comprised of 10 postdoctoral fellows, 3 graduate students, and numerous residents and medical students
- 08/01 – 06/06 Brigham & Women’s Hospital, Boston; PI of cardiovascular biology laboratory comprised of 18 post-doctoral fellows, residents, and students.

(a) Past and Current Trainees:

2016 -	Liyan Fan	MSTP Student Case Western Reserve University
2015 -	David Sweet	MSTP Student Case Western Reserve University
2013 -	Nelson Hsieh	MSTP Student Case Western Reserve University
2012 -	Shuxin Han	Research Associate Case Western Reserve University
2009 -	Lalitha Nayak MD	Assistant Professor, medicine and Hematology-Oncology Faculty, Case Western Reserve University
2008 –	Guanjin Zhou PhD	Research Associate Case Western Reserve University
2006 -	Yuan Lu PhD	Assistant Professor Case Western Reserve University Currently has independent AHA GIA
2002 –	Zhiyong Lin PhD	Associate Professor, Emory University, Atlanta, GA.
2014 - 2017	Keichihiro Matoba MD	Assistant Professor, Endocrinologist Jikei University, Japan
2013 - 2017	Mo Sabeh	Cardiology Fellow, University Hospitals Cleveland Medical Center
2013 - 2017	Neel Vasudevan PhD	Staff Scientist, Thermalin, Inc.
2012 - 2017	Pam Sangwung, PhD	Post-doctoral Fellow, Stanford University
2009 - 2017	Anthony Prosdocimo PhD	Instructor, Case Western Reserve University
2014 - 2016	Jinbo Liu MD PhD	Senior Research Associate Case Western Reserve University

Past and Current Trainees (Continued):

2012 – 2016	Amer Alaiti MD	Cardiology Fellow Case Western Reserve University
2011 – 2016	Lilei Zhang MD	Assistant Professor Baylor College of Medicine
2004 - 2016	Anne Hamik MD PhD	Associate Professor & Director, Cardiovascular Research SUNY Stonybrook Currently independent investigator supported by R01. Previously Associate Professor Case Western Reserve University
2002 - 2016	G. B. Atkins MD PhD	Clinical Director of Cardiovascular Clinical Research Merck Research Laboratories
2012 - 2015	Derin Tugal MD	Electrophysiology Fellow Beth Israel Deaconess Medical Center, Harvard Medical School Previously postdoctoral fellow, Case Western Reserve University
2007 - 2014	Hong Shi MD PhD	Internal Medicine resident New York Hospital Previously Research Associate Case Western Reserve University
2012 – 2013	Jenine John MD	Cardiology Fellow Brigham & Women’s Hospital
2010 - 2012	Wendy Goodman PhD	Instructor Case Western Reserve University
2008 - 2012	Ganapathi Mahabel, PhD	Assistant Professor Case Western Reserve University
2007 - 2012	Nikunj Sharma PhD	Staff Food & Drug Administration
2007 – 2012	Darwin Jeyaraj MD	Assistant Professor University of Missouri
2007 – 2012	Viswanath Natesan MD	Cardiology Fellow University Hospitals Cleveland Medical Center

Past and Current Trainees (Continued):

2005 - 2012	Saptarsi Haldar MD	Associate Professor University of California San Francisco
2010 - 2011	Hong Hong PhD	Pathology Resident Case Western Reserve University
2009 - 2011	Han Zhu	Cardiology Stanford University
2009 - 2011	Kaavya Parchuri	Cardiology Fellow Massachusetts General Hospital, Harvard
2008 - 2010	Yoichi Takami PhD	Assistant Professor Osaka University, Osaka Japan
2008 – 2009	Ashwin Hampole MD	Staff Radiologist, Integrated Imaging Consultant, Advocate Good Samaritan Hospital
2007 – 2009	Ejike Anih B.S.	University of Indiana Business School Previously Research Assistant, Case Western Reserve University
2006 - 2009	Fehmida Kapadia PhD	Staff Scientist Case Western Reserve University
2006 - 2009	Daiji Kawanami MD PhD	Associate Professor Jikei University, Tokyo
2006 - 2009	Osama Ibrahim MD	Clinical Cardiologist
2007 - 2008	Yogen Kanthi MD	Assistant Professor University of Michigan
2006 – 2008	Fei Dong BS	Instructor in Pathology Brigham & Women’s Hospital, Harvard
2006 – 2007	Jon Russell BS	Medical Student Case Western School of Medicine
2003 - 2007	Baiqui Wang PhD	Industry in China Previously Instructor Case Western Reserve University
2003 - 2007	Hiranmoy Das PhD	Professor, Department of Biological Sciences, Texas Tech University
2003 - 2006	Ajay Kumar PhD	Assistant Professor University of Pittsburgh

Past and Current Trainees (Continued):

2002 – 2006	Sudeshna Fisch PhD	Staff Scientist Brigham & Women’s Hospital, Boston
2001 - 2006	Sucharita Banerjee PhD	Instructor Beth Israel Deaconess Medical Center Harvard Medical School, Boston
2000 - 2006	Mark W. Feinberg, MD	Associate Professor of Medicine Brigham & Women’s Hospital Harvard Medical School, Boston
2000 – 2006	Susan J. Gray PhD	Assistant Professor University of Massachusetts, Boston
2003 - 2004	Rajan Jain M.D.	Assistant Professor University of Pennsylvania Perelman School of Medicine, PA.
2002 - 2004	Maria Lebedeva	Office of Strategic Integration VA New England Healthcare System
2002 - 2003	Richard Haspel MD PhD	Assistant Professor and Staff Pathologist Beth Israel Deaconess Medical Center Harvard Medical School
2001 - 2003	Ana Depinha PhD	Staff Scientist National Institute of Health, Boston
2001 - 2002	Sarah C. Hull	Assistant Professor, Cardiovascular Division Yale University School of Medicine
2000 - 2002	Masafumi Watanabe MD	Physician and Research Associate University of Tokyo, Japan
1995 – 1996	Kenji Fujita	Executive Director of Clinical Research Alexion Pharmaceuticals

(b) Regional, National, or International Lectures:

04/19	Invited Lecture, Hoffman Lectureship, Oregon Health Sciences University “Novel Insights into Vascular Thrombosis”, Portland, OR.
04/19	Invited Keynote lecture, Association Professors of Medicine, “Navigating the Fellow-to-Faculty Transition - Insights from Personal Experience, Philadelphia, PA.
04/19	Invited speaker, Plenary Session, Alliance for Academic Internal Medicine “The Career Development of Physician-Scientists”, Philadelphia, PA.
03/19	Speaker, Congressional Briefing of “Philanthropic Investments in Scientific Research to Amplify Federal Funding” to Members of the Health & Human Services Appropriations Committee, Washington, DC
12/18	Keynote Speaker, American Society of Hematologists, San Diego, CA

(b) Regional, National, or International Lectures:

- 11/18 Keynote “Aortic Disease Symposium” on KLFs in Vessel Biology at Nanjing University, Nanjing, China.
- 11/18 Invited Lecture Tongji Medical Center “KLFs and Thrombosis”, Shanghai, China.
- 11/18 Invited Lecture Chinese Academy of Sciences, “KLFs and Age-associated Disease”, Beijing, China.
- 03/18 Invited Keynote Lecture, CWRU MSTP Program “Metainflammation and Aging”, Cleveland OH.
- 10/17 Invited lecture at Joslin Diabetes Center “New insights into metainflammation and aging”, Boston, MA.
- 09/17 Invited lecture at Wake Forest University “KLFs and immunometabolism”, Winston-Salem, NC.
- 05/17 Invited keynote lecture Pulmonary fellowship graduation at University of Chicago “KLFs and vessel biology”, Chicago, IL.
- 04/17 Case Western Reserve University Department of Biology “New insights in metabolism and aging”, Cleveland, Ohio.
- 04/17 Invited keynote lecture “Frontiers in Science” at the University of Michigan. “New insights into metabolism and aging”, Ann Arbor, Michigan.
- 03/17 Invited lecture at the Institute for Translational Medicine and Therapeutics (ITMAT) in Edinburgh: Big Data and Development of New Medicines meeting. “New insights into metainflammation”, Edinburg, Scotland.
- 11/16 Invited lecture Cardiovascular Grand Rounds Brigham & Women’s Hospital “A crippling tale of two cities”; Boston, MA.
- 11/16 International Vascular Biology Meeting, “KLFs and the vessel wall”; Boston MA.
- 10/16 Keynote Address, Yale annual Cardiovascular and Vascular Biology retreat. “KLF control of aging and autophagy”; New Haven CT.
- 05/16 Keynote Address, Emory University 11th International Symposium on Biomechanics in Vascular Biology and Cardiovascular Disease “KLFs-essential regulators of vessel biology”, Atlanta, GA.
- 04/16 Commencement Address State University of Buffalo School Jacobs School of Medicine and Biomedical Research “The Privilege to Impact.”
- 03/16 Keynote Address Duke University Medicine Medical Scientist Training Program (MSTP), Durham, NC. “Life in Academia: principles, promise, and perils”
- 02/16 Keynote Address University of Pittsburgh Medical Center Annual Research Retreat, Pittsburgh, PA. “Life as a Physician-Scientist”
- 02/16 Keynote Address University of Alabama Medical Scientist Training Program (MSTP), Birmingham, AL. “The Physician-Scientist: Perils and Promise”
- 11/15 Alliance for Academic Internal Medicine Co-leader on breakout session focused on Team Science, Washington, DC. “Team Science”
- 10/15 Keynote Lecture, Society for Heart and Vascular Metabolism, NY “KLFs and cardiac metabolism”
- 10/15 Judah Folkman Award in Vascular Biology Lecture, North American Vascular Biology Organization, Cape Cod, MA “KLFs and the vessel wall”
- 06/15 University of Iowa Abboud Lecture Series “KLFs and metabolism”
- 06/15 Gordon Research Conference, Maine “KLFs and the endothelium”
- 04/15 ASCI Presidential Address “Advancing the Vision”
- 02/15 Keynote Lecture 50th Scientific Meeting of Japan Insulin Study Group

(b) Regional, National, or International Lectures:

- 01/15 Northwestern University Seminar Series “KLFs and metabolism”
- 12/14 Washington University Seminar Series “KLFs and cardiometabolic disease”
- 11/14 Albert Einstein School of Medicine Seminar Series “KLFs and metabolism”
- 10/14 Keynote Lecture, Beijing Cardiovascular Conference Anzhen Hospital, **(b)** Beijing China
- 10/14 Keynote Lecture, Wuhan 3rd International Conference on Cardiovascular Science, Wuhan Chia.
- 09/14 Frank N. Wilson Visiting Professorship Lecture, University of Michigan
- 06/14 University of Pennsylvania Cardiovascular Grand Rounds “KLFs and metainflammation”
- 05/14 Keynote Address, Lerner Research Institute, Cleveland Clinic, Cleveland Ohio “KLFs as essential regulators of metabolism”
- 04/14 Invited Speaker, International Vascular Biology Meeting, Kyoto Japan. “KLFs and vascular disease”
- 03/14 Stanford Cardiovascular Seminar Series “KLFs and cardiometabolic disease”
- 02/14 University of California Los Angeles Department of Anesthesiology Seminar Series. “KLFs and metabolic control of cardiovascular disease.”
- 02/14 University of California San Diego Center for Chronobiology Symposium. “KLFs and circadian control of nutrient flux.”
- 01/14 Columbia University College of Physicians & Surgeons, NY “Krüppels and cardiometabolic disease”
- 01/14 University of Cincinnati Dean’s Distinguished Lecture. “Krüppels and vascular biology
- 11/13 American Heart Association 2014 Scientific Sessions “Krüppels and Circadian control of Arrhythmogenesis”
- 10/13 Keynote Speaker, iMED Conference, Lisbon Portugal. One of 7 keynote speakers including 4 Nobel prize recipients
- 07/13 Gordon Conference “Circadian Rhythms: From Molecular to Man”
- 06/13 Visiting Professor, Department of Medicine, Yale University
- 06/13 Dean’s Distinguished Scientist Lectureship Series, University of Washington, Seattle
- 06/13 Duke University CVRC Seminar Series. “KLFs and metainflammation.”
- 04/13 Invited Speaker Keystone Meeting “Circadian control of Cardiometabolic Disease”
- 03/13 Keynote Speaker, “International Symposium on Development of Medical Technologies for treating Intractable Cancers and Cardiovascular Diseases”, Tokyo, Japan
- 03/13 Dean’s Distinguished Lecture, Weill Cornell Medical College
- 12/12 Inaugural Speaker, Baylor Cardiovascular Research Institute, Baylor University
- 11/12 Russell Ross Memorial Lectureship in Vascular Biology, American Heart Association Honorary Lecture.
- 11/12 Invited Lecture, American Heart Association
- 09/12 Invited to deliver annual Frank Hyman Lecture, University of Utah, Salt Lake City Utah.
- 09/12 Invited Lecture Center for Genetics and Epigenetics, Rochester MN.
- 08/12 Invited Speaker/Co-Organizer, FASEB Biology and Pathobiology of Krüppels, Snowmass CO.

(b) Regional, National, or International Lectures:

- 06/12 Invited Speaker, American Transplant Congress, Boston
- 03/12 Invited Speaker, Molecular Cardiology Research Institute, Tufts Medical Center.
- 03/12 Invited Speaker, University of Massachusetts Seminar Series.
- 02/12 Invited Speaker, Cardiovascular Research Center Seminar Series, Beth Israel Deaconess Medical Center, Harvard Medical School.
- 02/12 Invited Speaker, Gordon Pineal Gland Conference
- 12/11 Invited Speaker, Cardiovascular Center Seminar Series, Duke University.
- 11/11 Invited Seminar Speaker, Centenary Institute, Sydney Australia.
- 11/11 Invited Conference Speaker, "Science Amongst the Vines", 5th Barossa Valley; Meeting, Adelaide, Australia.
- 10/11 Invited Speaker, NAVBO Cardiovascular Signaling Meeting, Cape Cod, MA.
- 10/11 Cardiovascular Keynote Lecture, Nationwide Children's Hospital, Columbus OH.
- 07/11 Keynote Speaker, Lisbon Summer Meeting, Lisbon, Portugal.
- 05/11 Invited Seminar Speaker, University of Pennsylvania Research Seminar Series.
- 04/11 Invited Seminar Speaker, Biochemistry & Molecular Biology, Mayo Clinic.
- 10/10 Keynote Speaker, Creighton University Distinguished Lecture, Omaha, NE
- 09/10 Keynote Speaker, Lerner Research Institute Annual Retreat, Cleveland, OH.
- 06/10 Invited Speaker, IVBM-2010, Los Angeles, CA.
- 05/10 Invited Speaker, Cardiovascular Division, University of Connecticut, CT.
- 05/10 Invited Speaker, University of Kentucky Cardiovascular Research Center, KY.
- 04/10 Invited Speaker, Experimental Biology Meeting 2010, San Diego, CA.
- 03/10 Washington University School of Medicine, Cardiovascular Grand Rounds, St. Louis, MO.
- 03/10 Invited Speaker, University of Nebraska Medical Grand Rounds
- 03/10 Keynote Speaker, Annual IVBM/MHI Symposium, UNC Chapel Hill, Chapel Hill, NC.
- 03/10 Invited Speaker, University of Illinois Pharmacology Seminar Speaker
- 01/10 Invited Speaker, Research Seminar, CVRC, Boston University Medical Center
- 01/10 Invited Speaker, Research Seminar, Beth Israel-Deaconess Medical Center, MA.
- 10/09 Invited Speaker, Cardiovascular Research Seminar, University of Rochester.
- 07/09 Invited Speaker, Vasculata Forum, Cleveland Clinic Foundation.
- 12/08 Invited Speaker, Cardiovascular Grand Rounds, M.D. Anderson Cancer Center.
- 11/08 Invited Speaker, Cardiovascular Grand Rounds, University of Pittsburgh.
- 10/08 Invited Speaker, Cardiovascular Research Seminar, University of Iowa.
- 10/08 Invited Speaker, Fifth International CCN Workshop, Toronto, Canada.
- 07/08 Invited Speaker, Basic Cardiovascular Sciences Meeting, Keystone Colorado.
- 07/08 Annual MSTP Retreat Speaker, Case Western Reserve University, Cleveland, OH.

(b) Regional, National, or International Lectures:

- 06/08 Invited Speaker, University of Tennessee Dept of Physiology, Knoxville, TN.
- 04/08 Invited Speaker, Experimental Biology Meeting; San Diego CA.
- 04/08 Invited Speaker, ATVB Annual Meeting; Atlanta Georgia.
- 03/08 Invited Speaker, First International KLF Symposium, U. of Tokyo, Japan
- 03/08 Invited Speaker, RIKEN Center for Developmental Biology, Kobe, Japan
- 09/07 Distinguished Speaker, Rammelkamp Center Annual Retreat, MetroHealth Center
- 06/07 Invited Speaker, Department of Physiology & Biophysics, Case Western Reserve University
- 05/07 Invited Speaker, Cardiovascular Grand Rounds Cardiovascular Division, Case Western Reserve University
- 04/07 Invited Speaker, Case Western Reserve University, Pharmacology Department
- 04/07 Invited Speaker, New Faculty Seminar, Case Western Reserve University
- 02/07 Invited Speaker, University of Toronto, Ontario, Canada
- 01/07 Invited Speaker, Dept of Biochemistry, Case Western Reserve University
- 11/06 Invited Speaker, Blood Club Seminar, Case Western Reserve University
- 11/06 Cardiology Grand Rounds, MetroHealth, Cleveland
- 07/06 Speaker, Research Seminar, Case Physiology Retreat
- 06/06 Invited Speaker, International Society for Heart Research, Toronto, Canada.
- 06/06 Keynote Speaker, Tokyo Bay Conference, Tokyo, Japan
- 04/06 Research Seminar, University of Texas, Galveston.
- 04/06 Research Seminar, St. Elizabeth's Medical Center, Boston, MA.
- 03/06 Invited Speaker, Special Session on Transcriptional Biology for the Clinician at the Annual American College of Cardiology Meeting
- 02/06 Research Grand Rounds, Temple University
- 01/06 Cardiology Grand Rounds, Massachusetts General Hospital, MA.
- 12/05 Research Grand Rounds, Albany Medical College.
- 10/05 Cardiology Grand Rounds, Weill Medical College of Cornell University.
- 08/05 Invited Speaker, FASEB Glucose Transporter Meeting.
- 08/05 Keynote Address, Blood and Vessel Orbis Meeting, University of Tokyo, Japan.
- 08/05 Distinguished Lecturer, University of Tokyo, Japan.
- 08/05 Distinguished Speaker, NEMC Annual Retreat, Woods Hole, MA.
- 04/05 Research Seminar, Cleveland Clinic Foundation, Cleveland, Ohio.
- 02/05 Vascular Biology Seminar Series, Children's Hospital, Boston, MA
- 01/05 Cardiovascular Research Rounds, Baylor College of Medicine, Houston, TX.
- 01/05 Research Rounds, University of Texas Health Sciences Center, San Antonio, TX.
- 11/04 Endocrine Research Rounds, University of Indiana, Indianapolis.
- 06/04 Whittaker Research Foundation, Boston University Medical Center, Boston
- 03/04 Immunobiology Research Seminar Series, NIH, Bethesda, MD.
- 03/04 Cardiology Grand Rounds, Vanderbilt University, Nashville, TN.
- 09/03 Cardiovascular Research Seminar. Massachusetts General Hospital, Boston.
- 01/03 Gordon Vascular Cell Biology Research Conference, Ventura, CA.
- 12/02 Tupper Research Seminar Series. New England Medical Center, MA.
- 07/02 Cardiovascular Research Seminar. Stanford University
- 04/02 Cardiovascular Research Seminar, University of Virginia

04/02	Cardiovascular Research Seminar, University of Pennsylvania
07/00	Cardiovascular Research Symposium, Brigham & Women's Hospital
08/97	Cardiovascular Research Seminar, Brigham & Women's Hospital
05/96	Cardiovascular Grand Rounds, Beth Israel Deaconess Medical Center

C. Report of Clinical Activities:

(a) Clinical responsibilities.

As an Attending cardiologist, considerable effort is dedicated to the teaching of Cardiology Fellows, medical interns/residents, and medical Students. Since 2003-2005 I have served as a Preceptor for HMS Introduction to Clinical Medicine Course. Also, I served on the Clinical Cardiology Executive Committee that oversees many aspects of Cardiovascular Division's clinical activities. This Committee examines all aspects of clinical activities and is particularly focused on developing novel strategies to improve patient care.

Currently, I attend on the General Cardiovascular Service and Cardiovascular Consult Service at the University Hospitals of Cleveland (4-6 weeks/year). My responsibilities include teaching of cardiology fellows, medical interns and residents, and medical students. In addition, my clinical responsibilities include serving as ECG reader, serving on the Clinical Cardiology Executive Committee, and Clinical Cardiology Fellowship Committee.

(b) Description of Clinical Practice

2006 –	Attending Physician, General Cardiology Service, University Hospitals Case Medical Center
2000 –	Attending ECG reader
2003 – 2006	Preceptor, Introduction to Clinical Medicine course for Harvard Medical Students
2000 – 2006	Brigham & Women's Medical Center Attending Physician, General Cardiology Service
2000 – 2006	Consult Attending, Cardiac Surgery Service
2000 – 2006	Preceptor, Cardiology Fellow's Clinic

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