

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

Date: 04/18/2022

Stephen R. Master, MD, PhD

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If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
none (U.S. citizen)

Education:

1990	A.B.	Princeton University (Molecular Biology)
2001	Ph.D.	University of Pennsylvania School of Medicine (Cell and Molecular Biology)
2002	M.D.	University of Pennsylvania School of Medicine (Medicine)
2011	M.S.T.R.	University of Pennsylvania (Translational Research)

Postgraduate Training and Fellowship Appointments:

2002-2004	Resident in Clinical Pathology, Hospital of the University of Pennsylvania, Philadelphia
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Faculty Appointments:

2004-2005	Research Associate, University of Pennsylvania School of Medicine Department of Pathology and Laboratory Medicine, University of Pennsylvania
2005-2015	Assistant Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine
2015-2017	Associate Professor, Weill Cornell Medical College
2018-present	Associate Professor of Pathology and Laboratory Medicine at the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

2003-2004	Chief Resident in Clinical Pathology, Department of Pathology and Laboratory Medicine, Hospital of the University of Pennsylvania, Philadelphia
2005-2015	Attending Physician, Clinical Chemistry Laboratory, Hospital of the University of Pennsylvania
2008-2015	Attending Physician, Penn Presbyterian Medical Center
2008-2015	Attending Physician, Pennsylvania Hospital
2008-2015	Director, Endocrinology Laboratory, Hospital of the University of Pennsylvania

2014-2015	Director, Endocrinology Section, Clinical Chemistry Core Lab, Children's Hospital of Philadelphia
2015-2017	Associate Attending Pathologist, Weill Cornell Medical Center, New York Presbyterian
2015-2017	Director, Central Laboratory, Weill Cornell Medical Center, New York Presbyterian
2015-2017	Chief, Clinical Chemistry Laboratory Services, Weill Cornell Medical Center, New York Presbyterian
2016-2017	Laboratory Director (CLIA License Holder), New York Presbyterian Hospital Westchester
2018-present	Attending Physician, Children's Hospital of Philadelphia
2018-2019	Director, Central Lab Services, Children's Hospital of Philadelphia
2019-present	Director, Michael Palmieri Laboratory for Metabolic and Advanced Diagnostics, Children's Hospital of Philadelphia
2019-present	Chief, Division of Laboratory Medicine, Children's Hospital of Philadelphia

Other Appointments:

2005-2015	Member, Graduate Group, Genomics and Computational Biology, University of Pennsylvania School of Medicine
2010-2015	Director, Translational Core Laboratory, Perelman School of Medicine, University of Pennsylvania
2012-2015	Director, Penn Diabetes Research Center RIA/Biomarkers Core, Perelman School of Medicine, University of Pennsylvania
2018-present	Member, Institute for Biomedical Informatics, Perelman School of Medicine, University of Pennsylvania

Specialty Certification:

2004	American Board of Pathology (Clinical Pathology)
2017	American Board of Pathology (Clinical Informatics)

Licensure:

2004-present	Pennsylvania
2014	New York

Awards, Honors and Membership in Honorary Societies:

1989-1990	NSF Summer Undergraduate Research Fellowship
1990	Cum laude in Molecular Biology, Princeton University
1991	Dean's Letter of Commendation, SUNY at Buffalo School of Medicine
1996-1999	DOD Breast Cancer Predoctoral Training Award
2001	Endocrine Society Medical Student Achievement Award, University of Pennsylvania School of Medicine
2001	Endocrine Society Travel Award

2003	Best Scientific Session, Microarray and Tissue Array Analysis, APIII 2003
2004	William Pepper Fellowship Award in Laboratory Medicine, Hospital of the University of Pennsylvania
2013	American Association for Clinical Chemistry 2013 Division Achievement Award for "Advancing the Profession"
2013	2012 Outstanding Speaker Award, American Association for Clinical Chemistry
2015-2016	Weill Cornell Healthcare Leadership Fellowship Award Weill Cornell Medical Center, New York Presbyterian
2016	2015 Outstanding Speaker Award American Association for Clinical Chemistry
2019	Trailblazers of the Lab: The Power List 2019, thepathologist.com (https://thepathologist.com/power-list/2019)

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

2004-2005	International Society for Computational Biology (Member 2017)
2005-2009	Human Proteome Organization (Member)
2013-Present	International Consortium for Harmonization of Clinical Laboratory Results (ICHCLR) (committee member, Harmonization Oversight Group 2013-Present)
2018-Present	Society for the Study of Inborn Errors of Metabolism

National:

2000-Present	American Association for the Advancement of Science (Member)
2004-Present	American Association for Clinical Chemistry (President 2021-2022 President-Elect 2020-2021 Board of Directors 2017-2019 House of Delegates Chair 2014; House of Delegates Chair Elect 2013; Proteomics and Metabolomics Division Chair 2013-2014; Proteomics Division Chair Elect 2011-2012; Informatics Division Executive Committee Member 2017-present; OMICS consensus working group 2012; Proteomics Division Executive Committee Member 2008-2016; Proteomics Division Secretary 2008-2009; Proteomics Division Nominating committee 2006-2007 Editorial Advisory Board, Strategies, 2006-2009)
2005-2006	American Society for Biochemistry and Molecular Biology (Member)

2005-present	American Society for Mass Spectrometry (Member)
2005-present	College of American Pathologists (Fellow)
2006-present	Academy of Clinical Laboratory Physicians and Scientists (Member)
2006-2007	American Society for Investigative Pathology (Member)
2009	National Institutes of Health (NCRR) (Study Section Reviewer: Mass Spectrometry Instruments Review Panel)
2010	National Institutes of Health (NIAID) (Review Section Member: "Modeling Immunity for Biodefense")
2014-Present	National Academy of Clinical Biochemistry (Fellow)

Local:

2005-Present	American Association for Clinical Chemistry, Philadelphia Section (Chair-Elect 2010 Chair 2011 Past Chair 2012 House of Delegates Representative 2012)
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Editorial Positions:

2005-Present	Journal of Molecular Diagnostics (reviewer)
2005-Present	Clinical Chemistry (reviewer)
2006-Present	DNA and Cell Biology (reviewer)
2006-Present	Breast Cancer Research (reviewer)
2008-Present	Journal of Proteome Research (reviewer)
2008-Present	Archives of Pathology and Laboratory Medicine (section editor for clinical chemistry)
2008-Present	American Journal of Pathology (reviewer)
2010-Present	BMC Cancer (reviewer)
2010-Present	American Journal of Obstetrics and Gynecology (reviewer)
2011-Present	Clinical Chemistry (Board of Editors; Associate Editor, 2015-2019)
2013-Present	Clinical Proteomics (Editorial Board; Associate Editor 2016-present)
2013-Present	Cancer Research (Board of Editors)
2016-Present	Clinical Mass Spectrometry; (Editorial Board)

Academic and Institutional Committees:

2003-2010	Institutional Review Board 2, University of Pennsylvania (Member)
2005-2007	Molecular Pathology Faculty Search Committee
2006	Genomics and Computational Biology Graduate Group Preliminary Exam Committee
2006-2015	Genomics and Computational Biology Curriculum Committee
2007-2011	Department of Pathology REACH Committee

2007	Department of Pathology GME working group (Clinical Chemistry)
2008-2015	EMR Executive Committee (UPHS)
2009-2010	Department of Pathology LIS working group (Chair)
2009-2015	Department of Pathology Research Samples working group
2009-2015	Abramson Cancer Center CTSRMC (Member)
2010-2015	Institutional Review Board 4, University of Pennsylvania (co-Chair)
2011-2012	University of Pennsylvania Biobank Sample Processing subcommittee (Chair)
2011-2015	University of Pennsylvania Biobank Informatics subcommittee (member)
2012-2013	University of Pennsylvania Department of Pathology Molecular Genetics working group (member)
2012-2013	University of Pennsylvania Department of Pathology Professional Development working group (member)
2015-2017	Member, Clinical Informatics and Quality Committee, Weill Cornell Medical Center
2016-2017	Co-Organizer, Weill Cornell Clinical Pathology Faculty Chalk Talk Series
2016-2017	Member, Utilization Committee, Weill Cornell Medical Center
2019-Present	Member, Masters in Biomedical Informatics Admissions Committee, University of Pennsylvania
2021-Present	Member, CHOP Peer Review Committee
2021-Present	Member, CHOP Conflict of Interest Committee

Major Academic and Clinical Teaching Responsibilities:

2003-2004	Teaching Assistant, General Pathology
2005-2014	Medical student lecture: "Anatomy, Development, and Physiology of the Breast"
2005-2007	Resident Lecture: "Bioinformatics and Clinical Chemistry" (4x/yr starting 7/05)
2006-2014	Course Co-Director: GCB535 Introduction to Bioinformatics (co-director + 10 lectures)
2006-2007	Graduate/Fellow Lectures: "Introduction to Bioinformatics", "Introduction to Proteomics" (3 hrs)
2006-2010	Graduate Student Thesis supervisor, Logan Everett
2006-2014	Lecturer, MTR 603: 3 hours
2006-2014	Course co-Director (as of 2012): MTR603, Laboratory Diagnostics (currently give 6 lectures)
2007	Post-Doctoral Lecture: "Introduction to Proteomics" (2 hrs)
2007-2014	Resident Lecture: Blood Gases and Acid/Base balance (1x/quarter)
2007-2008	Clinical Pathology Resident Lecture, Introduction to Statistics
2007	Clinical Pathology Resident Lecture, Introduction to Bioinformatics
2008-2010	Post-doctoral supervisor, Charlene Bierl MD PhD
2011-2015	Resident Core Curriculum Lectures: Introduction to Bioinformatics (4 hrs total)
2015-2017	Faculty Director, Resident Management Course (1 month rotation),

	Weill Cornell Medical Center
2015-2016	Resident Lecture, "Introduction to the Central Lab" (1 hr./year)
	Weill Cornell Medical Center
2016-2017	Resident Informatics Lectures, "R for Pathologists" (12 hours)
	Weill Cornell Medical Center
2016-2017	Resident Lectures: "Why Lab Management Matters", "Lab Stats 1", "Lab Stats 2", "Validation of QC" (4 hours), Weill Cornell Medical Center
2016-2017	Resident RISE review session (1 hour), Weill Cornell Medical Center
2016-2017	Medical Student Lecture: "Introduction to the Clinical Lab" (1hr./year), Weill Cornell Medical Center
2017	Resident Informatics Lectures, "R for Pathologists" (12 Hours), Weill Cornell Medical Center
2017	Resident Lectures: "Why Lab Management Matters", "Lab Stats 1", "Lab Stats 2", "Validation and QC" (4 hours), Weill Cornell Medical Center
2018	CHOP faculty/staff education, "A Newbie's Introduction to the R Statistical Programming Language"
2019-Present	Lecture, "A (Brief) Introduction to Data Science for Laboratory Medicine", CHOP Pathology Informatics Course
2019-Present	MBG/CBG Fellows lecture, "Introduction to Laboratory Regulation", 1x

Lectures by Invitation:

Jun, 2005	"E Pluribus Unum: clinical quality control for genomic and proteomic assays", Pittsburgh, PA, Academy of Clinical Laboratory Physicians and Scientists 40th Annual Meeting
Oct, 2005	"E Pluribus Unum: Clinical Quality Control for Multiplex Proteomic Assays", Washington, D.C., American Association of Clinical Chemistry Conference on "Proteomics: A New Diagnostic Frontier"
Dec, 2005	"Bioinformatics and quality control for genomic and proteomic assays", Cairo, Egypt, 53rd Congress of the Egyptian Society for Clinical Chemistry (plenary lecture)
Apr, 2006	"Pattern-based Diagnostic Algorithms and Clinical Quality Control", BioRad Laboratories, California
Sep, 2006	"Clinical Grade Quality Control for Multiplex Assays: Can We Do It?" IBC Biomarkers and Molecular Diagnostics conference, Boston, MA (keynote)
Mar, 2007	Introduction to Clinical Research, GenNext Translational Research Course, San Francisco, CA
Apr, 2007	"Robust data, robust algorithms: from preanalytical variability to bioinformatic analysis", Genomic and Proteomic Sample Preparation Conference (GOT Summit), Boston, MA (keynote)
Jan, 2008	"Prospects for Proteomics in the Clinical Laboratory: An Update", Egyptian Society for Clinical Chemistry 55th Scientific Conference,

- Cairo, Egypt
- Jun, 2008 "Mining the 24-hour proteome", Advion BioSciences Users Group Meeting, Denver, CO
- Nov, 2008 "Quality Control for Proteomics", Mass Spectrometry Applications in the Clinical Laboratory (MSACL-08), UCSD, San Diego, CA
- Nov, 2008 "Postanalytical Challenges for Multiplexed Biomarkers", Invitrogen Current Topics Meeting, San Diego, CA
- Sep, 2009 "How many analytes? Optimizing multiplex assays for QC", Athena Society, Porto Heli, Greece
- Oct, 2009 "Quality Control for Multiplexed Clinical Assays", Roche GIN Conference, Basel, Switzerland
- Jun, 2011 "Keeping Multiplex Assays in Control", BioConference Live Clinical Diagnostics 2011, webcast
- Jun, 2011 "Keeping Multiplex Assays in Control", Pathology Grand Rounds, Temple University
- Jul, 2011 "Beyond Westgard: Multiplex Mass Spectrometry in Control" (short course), American Association for Clinical Chemistry, Atlanta, GA
- Jul, 2011 "Keeping Multiplex Assays in Control", Pathology Grand Rounds, University of Illinois at Chicago
- Sep, 2011 "Keeping Multiplex Assays in Control", NIH, Bethesda, MD
- Jul, 2012 "An Introduction to Bioinformatics for Clinical Chemists" (short course), American Association for Clinical Chemistry, Los Angeles, CA
- Jul, 2012 "Proteomics Plus", American Association for Clinical Chemistry, Los Angeles, CA
- Jul, 2012 "Beyond Westgard Rules: Quality Control for Multiplex Mass Spectrometry" (short course), American Association for Clinical Chemistry, Los Angeles, CA
- Nov, 2012 "Good Antibodies, Bad Antibodies: Interference in Immunoassays", AACC Southeast Section, Lexington, KY
- Jul, 2013 "Bioinformatics for Clinical Chemists" (short course), American Association for Clinical Chemistry, Houston, TX
- Feb, 2014 "Too Much Information? Quality Control for Emerging Multiplex Assays", University of Washington, Seattle, WA
- Jul, 2014 "Clinical laboratory quality for emerging multiplex biomarkers", Weill Cornell Medical College, New York, NY
- Mar, 2015 "Breaking Up with Excel: A Newbie's Guide to the R Statistical Programming Language" (2-day short course with Daniel Holmes), Mass Spectrometry Applications in the Clinical Lab 2015, San Diego, CA
- Jul, 2015 "Big Data and the Clinical Laboratory", Society for Young Clinical Laboratorians, Atlanta, GA
- Sep, 2015 "Developing MRM Transitions", Mass Spectrometry Applications for the Clinical Lab EU, Salzburg, Austria
- Sep, 2015 "Quality Control for Multiplex Assays", HUPO World Congress Clinical Day, Vancouver, British Columbia, Canada

- Sep, 2015 "Breaking Up with Excel: A Newbie's Guide to the R Statistical Programming Language" (2-day short course with Daniel Holmes), Mass Spectrometry Applications in the Clinical Lab EU 2015, Salzburg, Austria
- Nov, 2015 "Clinical Quality Control for Multiplex Assays", Chang Gung Memorial Hospital, Linkou, Taiwan
- Nov, 2015 "Clinical Quality Control for Multiplex Assays", Mass Spectrometry for Clinical Diagnosis 2015, National Sun Yat-Sen University, Kaohsiung, Taiwan
- Feb, 2016 "Breaking Up with Excel: A Newbie's Guide to the R Statistical Programming Language" (2-day short course with Daniel Holmes), Mass Spectrometry Applications in the Clinical Lab 2016, Palm Springs, CA
- Aug, 2016 Session Moderator, "Meet the Expert" session with Qualcomm Tricorder XPRIZE Finalists, AACC 2017, San Diego, CA
- Aug, 2016 Session Moderator, "Q&A with Qualcomm Tricorder XPRIZE Finalists", AACC 2017, San Diego, CA
- Aug, 2016 "Little Steps with Big Data: An Introduction to the R Statistical Programming Language" (4-hour short course with Daniel Holmes), American Association for Clinical Chemistry, Philadelphia, PA
- Sep, 2016 "Breaking Up with Excel: A Newbie's Guide to the R Statistical Programming Language" (2-day short course with Daniel Holmes), Mass Spectrometry Applications in the Clinical Lab EU 2016, Salzburg, Austria
- Sep, 2016 "Automated Lab Result Reporting", Chinese Society for Laboratory Medicine, Chongqing, China
- Nov, 2016 "Quality Control in an Era of Complex Data", Asia-Pacific Federation for Clinical Biochemistry, Taipei, Taiwan
- Nov, 2016 "Breaking Up with Excel: A Newbie's Guide to the R Statistical Programming Language" (2-day short course with Daniel Holmes), Asia-Pacific Federation for Clinical Biochemistry, Taipei, Taiwan
- Nov, 2016 "Perspectives on Harmonization of the Analytical Phase", Ontario Society for Clinical Chemistry Annual Scientific Meeting, Ontario, Canada
- Jan, 2017 "Breaking Up with Excel: A Newbie's Guide to the R Statistical Programming Language" (2-day short course with Daniel Holmes), Mass Spectrometry Applications in the Clinical Lab 2017, Palm Springs, CA
- Jan, 2017 "Informatics Strategies for Multiplex Clinical Quality Control", CHOP Hematopathology Grand Rounds, Philadelphia, PA
- Feb, 2017 "Big Data in Medical Diagnostics", University of Pennsylvania Association of Senior and Emeritus Faculty, Philadelphia, PA
- Mar, 2017 "Bioinformatic Applications in Clinical Pathology", Pathology Grand Rounds, Washington University St. Louis, MO
- Mar, 2017 "Multiplex Clinical Quality Control for Emerging Diagnostics", Beth Israel Deaconess Hospital, Boston, MA

Jun, 2017	"Bioinformatic Applications in Clinical Pathology", Children's Hospital of Philadelphia, Philadelphia, PA
Sep, 2017	"Breaking Up with Excel: A Newbie's Guide to the R Statistical Programming Language" (2-day short course with Daniel Holmes), Mass Spectrometry Applications in the Clinical Lab EU 2017, Salzburg, Austria
Sep, 2017	"Communicating with Physicians: Case Studies from the US System", Chinese Society for Laboratory Medicine, Hongzhou, China
Nov, 2017	"FDA/CLIA Requirements for Validation of Laboratory Developed Tests in the USA", 29th World Congress of World Association of Societies of Pathology and Laboratory Medicine (WASPaLM), Kyoto, Japan
Mar, 2018	"Bioinformatic Applications in Clinical Pathology", Pathology Grand Rounds, ARUP Laboratories (University of Utah), Salt Lake City, UT
May, 2018	"Bioinformatics and Quality Control for Multiplex Oncology Assays", Moffitt Cancer Center, Tampa, FL
Jul, 2018	"Using R for Method Validation Studies", AACC Annual Meeting, Chicago, IL
Jul, 2018	"Are you Feeding your Instruments the Right Water?", AACC Annual Meeting, Chicago, IL
Aug, 2019	"R Showcase Demo", American Association for Clinical Chemistry Annual Meeting, Anaheim, CA
Aug, 2019	"Getting Started with R for Laboratory Medicine: Stat of the Union", American Association for Clinical Chemistry Annual Meeting, Anaheim, CA
Nov, 2019	"Big Data and AI in Laboratory Medicine", Best of AACC China, Shanghai
Nov, 2019	"Data Quality Challenges for AI in Laboratory Medicine", Best of AACC China, Shanghai
Jan, 2020	"Getting Started with R for Laboratory Medicine (and AP too!)" (3-day resident/faculty short course), Weill Cornell Medicine, New York
Mar, 2020	"Big Data and AI in Lab Medicine: Progress and Challenges", Cleveland Clinic (RT-PLMI Grand Rounds), cancelled due to COVID-19 pandemic
Mar, 2020	"Machine Learning: A Gentle Introduction" (one-day short course), MSACL 2020, Palm Springs, cancelled due to COVID-19 pandemic
Aug, 2020	"Reproducible Data, Reproducible Analyses: A Model for Clinical Laboratory Data Use", R/Medicine 2020, virtual conference due to COVID-19
Jan, 2021	"A Shiny App for IFX Processing", Mass Spectrometry Applications in the Clinical Lab, virtual lecture due to COVID-19.
Mar, 2021	"Machine Learning: A Gentle Introduction" (2-day short course with Randall Julian), MSACL, online due to COVID-19

Jun, 2021	"Big Data and AI in Laboratory Medicine: Progress and Challenges", AACC New York Metro Section, virtual lecture due to COVID-19.
Aug, 2021	"AACC's Perspective on the COVID-19 Pandemic", AACC India Section, virtual lecture due to COVID-19
Oct, 2021	"Big data and AI in Laboratory Medicine: Progress and Challenges" (plenary), Korean Society for Laboratory Medicine, virtual due to COVID-19
Nov, 2021	"Big Data and AI in Laboratory Medicine: Progress and Challenges", AACC Upstate New York Section, Verona, NY
Dec, 2021	"Big Data and Laboratory Medicine: Progress and Challenges", 47th Annual Conference of Association of Clinical Biochemists of India (ACBICON 2021), virtual presentation due to COVID-19
Mar, 2022	"AACC's Perspective on the COVID-19 Pandemic", AACC Texas Local Section, Houston, TX (virtual due to COVID-19).
Mar, 2022	"COVID-19 and the Clinical Lab: A view from AACC", AACC Rocky Mountain Local Section, Salt Lake City, UT (virtual due to COVID-19)
Mar, 2022	"Big Data and AI in Laboratory Medicine: Progress and Challenges", AACC Southern California Local Section, Los Angeles, CA (virtual due to COVID-19)

Organizing Roles in Scientific Meetings:

Dec, 2007	co-organizer, CAMSI ("Critical assessment of mass spectral identifications") competition. Round 1 was held in December 2007
Jun, 2008	Session chair, Academy of Clinical Laboratory Physicians and Scientists (ACLPS) Philadelphia, PA
Nov, 2008	Session Chair, Invitrogen Current Topics Meeting San Diego, CA
Jul, 2009	Organizing Committee Member, American Association for Clinical Chemistry (AACC) Proteomics Division Meeting Chicago, IL
Nov, 2009	Organizing committee, "Translating Novel Biomarkers to Clinical Practice: Role and Opportunities for the Clinical Laboratory" Bethesda, MD
Nov, 2009	Session co-chair, "Translating Novel Biomarkers to Clinical Practice: Role and Opportunities for the Clinical Laboratory" Bethesda, MD
Feb, 2011	Session chair, "Mass Spectrometry Applications in the Clinical Laboratory" (MSACL 2011) San Diego, CA
Jul, 2011	Short Course Moderator, American Association of Clinical Chemistry Atlanta, GA
Jul, 2012	Short Course Moderator, American Association for Clinical

Chemistry
Los Angeles, CA

Feb, 2013 Scientific Advisory Committee, MSACL (Mass Spectrometry Applications in the Clinical Laboratory) 2013
San Diego, CA

Feb, 2013 Organizing Committee, AACC Molecular Biomarker Diagnostic Applications (MBDxA)
San Diego, CA

Feb, 2013 Session Chair, "Disease Markers", MSACL 2013
San Diego, CA

Apr, 2013 Session Chair, "Biomarkers: Buyer Beware", Oak Ridge Conference, American Association for Clinical Chemistry.
Baltimore, MD

Apr, 2013 Planning Group, Oak Ridge Conference, American Association for Clinical Chemistry
Baltimore, MD

Jul, 2013 Session Organizer / Moderator, "Proteomic and Metabolomic Biomarkers for the Clinical Laboratory: Shared Goals, Common Strategies", American Association for Clinical Chemistry Annual Meeting
Houston, TX

Mar, 2014 Scientific Advisory Committee, MSACL (Mass Spectrometry Applications in the Clinical Laboratory) 2014
San Diego, CA

Mar, 2015 Scientific Advisory Committee, MSACL (Mass Spectrometry Applications in the Clinical Laboratory)
San Diego, CA

Jul, 2015 Annual Meeting Organizing Committee Member, American Association for Clinical Chemistry Annual Meeting
Atlanta, GA

Sep, 2015 Session Chair, "Proteomics Assay Development"
MSACL EU, Salzburg, Austria

2015 Annual Meeting Organizing Committee Member, American Association for Clinical Chemistry Annual Meeting
Atlanta, GA

Feb, 2016 Scientific Advisory Committee, MSACL 2016
Palm Springs, CA

Feb, 2016 Session Chair, "Computational Aids to Assay Development in LC-MS/MS", MSACL 2016
Palm Springs, CA

Aug, 2016 Session Moderator, "In the Era of Digital Medicine, Patients are Connected and in Control - What Does this Mean for Laboratorians?", AACC 2016
Philadelphia, PA

Aug, 2016 Q&A Moderator, Theranos Presentation, AACC 2016
Philadelphia, PA

Jan, 2017	Scientific Advisory Committee, MSACL 2017 Palm Springs, CA
Jan, 2018	Scientific Advisory Committee, MSACL 2018 Palm Springs, CA
Dec, 2020	Annual Meeting Organizing Committee Member (Vice-Chair), American Association for Clinical Chemistry Annual Meeting Virtual due to COVID-19

Bibliography:

Research Publications, peer reviewed (print or other media):

1. Shah R, Matthews GJ, Shah RY, McLaughlin C, Chen J, Wolman M, Master SR, Chai B, Xie D, Rader DJ, Raj DS, Mehta NN, Budoff M, Fischer MJ, Go AS, Townsend RR, He J, Kusek JW, Feldman HI, Foulkes AS, Reilly MP: Study Investigators. Serum Fractalkine (CX3CL1) and Cardiovascular Outcomes and Diabetes: Findings from the Chronic Renal Insufficiency Cohort (CRIC) Study. Am J Kidney Dis 66(2): 266-73, Aug 15.
2. Poetter K, Jiang H, Hassanzadeh S, Master SR, Chang A, Dalakas MC, Rayment I, Sellers JR, Fananapazir L, Epstein ND: Mutations in either the essential or regulatory light chains of myosin are associated with a rare myopathy in human heart and skeletal muscle. Nature Genetics 13(1): 63-9, May 1996.
3. Huber LJ, Yang TW, Sarkisian CJ, Master SR, Deng CX, Chodosh LA.: Impaired DNA damage response in cells expressing an exon 11-deleted murine Brca1 variant that localizes to nuclear foci. Mol Cell Biol 21(12): 4005-15, Jun 2001.
4. Sarkisian CJ, Master SR, Huber LJ, Ha SI, Chodosh LA.: Analysis of murine Brca2 reveals conservation of protein-protein interactions but differences in nuclear localization signals. J Biol Chem 276(40): 37640-8, Oct 2001.
5. Master SR, Hartman JL, D'Cruz CM, Moody SE, Keiper EA, Ha SI, Cox JD, Belka GK, Chodosh LA.: Functional microarray analysis of mammary organogenesis reveals a developmental role in adaptive thermogenesis. Mol Endocrinol 16(6): 1185-203, Jun 2002.
6. Li C, Fox CJ, Master SR, Bindokas VP, Chodosh LA, Thompson CB.: Bcl-X(L) affects Ca(2+) homeostasis by altering expression of inositol 1,4,5-trisphosphate receptors. Proc Natl Acad Sci U S A 99(15): 9830-5, July 2002.
7. D'Cruz CM, Moody SE, Master SR, Hartman JL, Keiper EA, Imielinski MB, Cox JD, Wang JY, Ha SI, Keister BA, Chodosh LA.: Persistent parity-induced changes in growth factors, TGF-beta3, and differentiation in the rodent mammary gland. Mol Endocrinol 16(9): 2034-51, Sep 2002.
8. Fox CJ, Hammerman PS, Cinalli RM, Master SR, Chodosh LA, Thompson CB.: The serine/threonine kinase Pim-2 is a transcriptionally regulated apoptotic inhibitor.

Genes Dev 17(15): 1841-54, Aug 2003.

9. Master SR, Stoddard AJ, Bailey LC, Pan TC, Dugan KL, Chodosh LA.: Genomic analysis of early murine mammary gland development using novel probe-level algorithms. Genome Biol 6: R20, Feb 2005.
10. Wang M *, Master SR *, Chodosh LA: Computational Expression Deconvolution in a Complex Mammalian Organ. BMC Bioinformatics 7: 328, Jul 2006 Notes: * Both authors contributed equally.
11. Tetzlaff MT, Liu A, Xu X, Master SR, Baldwin DA, Tobias JW, Livolsi VA, Baloch ZW: Differential Expression of miRNAs in Papillary Thyroid Carcinoma Compared to Multinodular Goiter Using Formalin Fixed Paraffin Embedded Tissues. Endocr Path 18(3): 163-73, 2007.
12. Orwig KE, Ryu BY, Master SR, Mack M, Avarbock MR, Chodosh LA, Brinster RL: Genes Involved in Post-transcriptional Regulation are Over Represented in Stem/progenitor Spermatogonia of Cryptorchid Mouse Testes. Stem Cells 26(4): 927-938, Apr 2008.
13. Furlow PW, Percy MJ, Sutherland S, Bierl C, McMullin MF, Master SR, Lappin TR, Lee FS: Erythrocytosis-associated HIF-2alpha mutations demonstrate a critical role for residues C-terminal to the hydroxylacceptor proline. J Bio Chem 248(14): 9050-8, Apr 2009.
14. Kricka LJ, Milone M, Master SR, Shaw L, Young DS, Fontanilla R, Smith T, Gardiner J, Cardamone D, Fleming M, Rhoads DG: Effect of a variable magnetic field on clinical laboratory testing. Clin Chem 55: 1249-50, Jun 2009.
15. Everett L, Bierl C, Master SR: Statistical Bias in Multi-Stage Proteomic Search Strategies. J Proteome Res 9(2): 700-707, Feb 2010.
16. Romero R, Kusanovic JP, Gotsch F, Erez O, Vaisbuch E, Mazaki-Tovi S, Moser A, Tam S, Leszyk J, Master SR, Juhasz P, Pacora P, Ogge G, Gomez R, Yoon BH, Yeo L, Hassan SS, Rogers W: Isobaric Labeling and Tandem Mass Spectrometry: A Novel Approach for Profiling and Quantifying Proteins Differentially Expressed in Amniotic Fluid in Preterm Labor with and without Intra-amniotic Infection/Inflammation. J Maternal-Fetal and Neonatal Med 23(4): 261-80, Apr 2010.
17. Golugula A, Lee G, Master SR, Feldman MD, Tomaszewski JE, Speicher DW, Madabhushi A: Supervised Regularized Canonical Correlation Analysis: Integrating Histologic and Proteomic Measurements for Predicting Biochemical Failures Following Prostate Surgery. BMC Bioinformatics 12(483), Dec 2011.
18. Ferguson JF, Hinkle CC, Mehta NN, Bagheri R, DerOhannessian SL, Shah R, Wolfe

- M, Bradfield JP, Hakonarson H, Wang X, Master SR, Rader DJ, Li M, Reilly MP: Translational studies of lipoprotein-associated phospholipase A2 in inflammation and atherosclerosis. J Am Coll Cardiol 59(8): 764-72, Feb 2012. PMID: 22340269
19. Narayan SB, Master SR, Sireci AN, Bierl C, Stanley PE, Li C, Stanley CA, Bennett MJ: Short-Chain 3-Hydroxyacyl-Coenzyme A Dehydrogenase Associates with a Protein Super-Complex Integrating Multiple Metabolic Pathways. PLoS ONE 7(4): e35048, Apr 2012. PMID: 22496890
 20. Mehta NN, Heffron SP, Patel PN, Ferguson J, Shah RD, Hinkle CC, Krishnamoorthy P, Shah R, Tabita-Martinez J, Terembula K, Master SR, Rickels MR, Reilly MP: A human model of inflammatory cardio-metabolic dysfunction; a double blind placebo-controlled crossover trial. Journal of Translational Medicine 10: 124, Jun 2012. PMID: 22709547
 21. Mulvey CK, Ferguson JF, Tabita-Martinez J, Kong S, Shah RY, Patel PN, Master SR, Usman MH, Propert KJ, Shah R, Mehta NN, Reilly MP: Peroxisome Proliferator-Activated Receptor-alpha Agonism with Fenofibrate Does Not Suppress Inflammatory Responses to Evoked Endotoxemia. J Am Heart Assoc 1(4): e002923, Aug 2012.
 22. Bing Z, Li JH, Master SR, Lee CCR, Puthiyveetil R, Tomaszewski JE: Fluorescence In Situ Hybridization of Chromosome Abnormalities of Upper Urinary Tract Urothelial Carcinoma in Paraffin Embedded Tissue. Am J Clin Pathol 138(3): 382-9, Sep 2012.
 23. Bing Z, Master SR, Tobias JW, Baldwin DA, Xu XW, Tomaszewski JE: MicroRNA Expression Profiles of Seminoma from Paraffin-Embedded Formalin-Fixed Tissue. Virchows Archiv 461(6): 663-8, Dec 2012.
 24. Bose S, Krishnamoorthy P, Varanasi A, Nair J, Schutta M, Braunstein S, Iqbal N, Schwartz S, St. Clair C, Master SR, Rader DJ, Reilly MP, Mehta NN: Measurement of waist circumference predicts coronary atherosclerosis beyond plasma adipokines. Obesity 21((1)): E118-23, Jan 2013.
 25. Ferguson JF, Patel PN, Shah RY, Mulvey CK, Gadi R, Nijjar PS, Usman HM, Mehta NM, Shah R, Master SR, Propert KJ, Reilly MP: Race and gender variation in response to evoked inflammation. J Trans Med 11: 63, Mar 2013.
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