

Curriculum Vitae

1. Date of Preparation: September 7, 2014

2. Personal Data:

Name	Paul <u>Christian</u> Schulze	Mail:	622 W 168 th Street, PH 10-203
Birthdate:	February 19, 1972		New York, NY 10032
Birthplace:	Zwickau, Germany	Tel:	(617) 818-7489
Citizenship:	Germany	Email:	pcs2121@cumc.columbia.edu

3. Work Experience:

Academic Appointments

01/14- *Associate Professor of Medicine*, Columbia University, New York
07/11- *Florence Irving Assistant Professor of Medicine*, Columbia University, New York
07/09- *Assistant Professor of Medicine*, Columbia University, New York, USA
07/05-06/07 *Teaching Associate*, Boston University Medical Center, Boston, USA
01/04-06/05 *Instructor in Medicine*, Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts

Hospital Appointments

10/12- *Director of Research*, Center of Advanced Cardiac Care, Department of Medicine, New York-Presbyterian Hospital/Columbia University Medical Center
09/12- *Director*, Geier Clinical Research Center, Center of Advanced Cardiac Care, New York-Presbyterian Hospital/Columbia University Medical Center
07/09- *Attending Physician*, Center of Advanced Cardiac Care, Division of Cardiology, New York-Presbyterian Hospital/Columbia University Medical Center
07/07-06/09 *Clinical Fellow in Cardiovascular Medicine*, New York-Presbyterian Hospital/Columbia University Medical Center
07/05-06/07 *Resident in Internal Medicine*, Boston University Medical Center
11/98-08/01 *Resident in Internal Medicine/Cardiology*, University of Leipzig

4. Post-Doctoral Training:

07/07-06/09 New York-Presbyterian Hospital/Columbia University Medical Center
Clinical Fellowship in Cardiovascular Medicine
2006 Boston University Medical Center, Clinical Epidemiology and Biostatistics
Clinical Research Training (CREST) Program
07/05-06/07 Boston University Medical Center, Department of Medicine
Residency in Internal Medicine
08/01-12/03 Brigham and Women's Hospital, Department of Medicine
Cardiovascular Division, Harvard Medical School
Postdoctoral Research Fellowship (PI: Dr. Richard T. Lee)
11/98-08/01 Residency in Internal Medicine/Cardiology, University of Leipzig

5. Education:

- 10/94-05/99 Research Fellow, Department of Neuropathology, University of Leipzig, Germany. Research Thesis “Laser-induced Tissue Alterations in the Human Brain”; PhD, May 1999
- 10/97-05/98 Sub-Internships at the University of Buenos Aires, Argentina (Surgery), Yale University-School of Medicine (Neurology and Gastroenterology), New Haven, CT, and Cornell University-School of Medicine (Gynecology), New York, NY
- 04/96-07/96 Exchange Medical Student, Baylor-College of Medicine, Houston, Texas
- 10/91-10/98 Medical Student, Faculty of Medicine, University of Leipzig, Germany MD, October 1998

6. Licensure and Certification:

- 05/00 German Medical License #34446
- 02/04 Massachusetts Medical License #226257
- 01/05 Educational Commission for Foreign Medical Graduates #0-365-576-1
- 07/07 New York State Medical License #244754-1
- 08/08 Diplomate, American Board of Internal Medicine (ABIM)
- 12/09 Testamur, National Board of Echocardiography
- 11/09 Diplomate, Cardiovascular Medicine, ABIM
- 12/09 Diplomate, National Board of Nuclear Cardiology
- 10/12 Diplomate, Advanced Heart Failure and Transplantation, ABIM

7. Honors:

- 07/99 *Summa cum Laude* for Dissertation “Optical and Histological Parameters of Laser-induced Interstitial Thermo-therapy on Brain Tissue”, Leipzig, Germany.
- 07/99 Pomblitz Award of the University of Leipzig for Outstanding Dissertation.
- 09/01 Moderated Poster Award, European Society of Cardiology, Stockholm, Sweden.
- 07/02 Finalist, Young Cardiovascular Investigator Presentation, Brigham and Women’s Hospital, Harvard Medical School.
- 11/02 Finalist, AstraZeneca Cardiovascular Young Investigators’ Forum, Chicago.
- 11/02 Merit Award for Young Investigators, Council on Atherosclerosis, Thrombosis and Vascular Biology of the American Heart Association.
- 06/03 Thomas W. Smith Fellowship Award in Heart Failure, Brigham and Women’s Hospital/ Harvard Medical School.
- 11/03 Finalist, Young Investigator Presentation, Council on Atherosclerosis, Thrombosis and Vascular Biology of the American Heart Association.
- 10/04 David W. Haack Award, AstraZeneca Cardiovascular Young Investigators’ Forum.
- 07/05 Selected for “Marquis - Who’s Who of Emerging Leaders”
- 05/09 Daniel L. Macken Cardiovascular Fellows Research Award, Columbia University
- 03/09 Recognition in the “*Guide to America’s Top Cardiologists*”, Consumers’ Research Council of America, 2009
- 06/10 Recognition in the “*Guide to America’s Top Cardiologists*”, Consumers’ Research Council of America, 2010
- 09/10 Finalist, Jay N. Cohn New Investigator Award, Heart Failure Society of America
- 09/10 Katz Cardiovascular Research Prize, Columbia University Medical Center
- 11/23 Irving Clinical Research Scholar Award (07/2011-06/2014)
- 02/11 Recognition in “*Top Doctors: New York Metro Area*”, 14th Edition, Castle Connolly
- 06/11 Recognition under “*New York Best Cardiologists*”, New York Magazine, 2011
- 02/12 Recognition in “*Top Doctors: New York Metro Area*”, 15th Edition, Castle Connolly
- 02/13 Recognition in “*Top Doctors: New York Metro Area*”, 16th Edition, Castle Connolly

04/13 Harold and Golden Lamport Award for Excellence in Clinical Science Research,
Columbia University

8. Professional Organizations, Societies and Service:

04/00 German Society of Cardiology
07/00 European Society of Cardiology (ESC)
11/05 American Heart Association, Council on Basic Cardiovascular Sciences
07/07 American College of Cardiology
03/08-02/10 American College of Cardiology, Cardiology Training and Workforce Committee
01/08 American Heart Association, Columbia Cardiovascular Program Liaison
07/08-06/09 President, American Heart Association Fellows Society of Greater New York
12/08 Member, Cardiovascular Research Initiative, Columbia University
03/10 Member, International Society of Heart and Lung Transplantation (ISHLT)
05/14 Member, International Society of Heart Research
07/14 Steering Committee “Cardiac Metabolism” International Society of Heart Research

Editorial Board Member

2010 - Journal of Clinical and Experimental Cardiology

Ad Hoc Editorial Reviewer Activity

European Heart Journal, European Journal of Heart Failure, Circulation, Cardiovascular Research, Heart, Hypertension, The FASEB Journal, Journal of Lipid Research, Circulation Research, PLOS One, Circulation: Heart Failure, The Journal of Heart and Lung Transplantation, Circulation: Imaging, Journal of the American College of Cardiology, Diabetes

Scientific Meeting Abstract Reviewer

2008 - American College of Cardiology, 2009 Scientific Session Ad hoc Reviewer
2009 - American College of Cardiology, 2010 Scientific Session Ad hoc Reviewer

Grant Review Committees

9/2012 - Austrian Academy of Science Ad hoc Reviewer
10/2012 - NHLBI PPG Review Panel Ad hoc Reviewer
07/13 - Irving Institute Review Panel Ad hoc Reviewer
8/2013 - Research Foundation - Flanders Ad hoc Reviewer
11/2013 - NHLBI PPG Review Panel Ad hoc Reviewer
08/14 - NHLBI Study Section “Myocardial Ischemia and Metabolism” Ad hoc Reviewer

Scientific Meetings Organization

10/15 Annual Meeting, Society of Heart and Vascular Metabolism, Tarrytown, New York,
USA (Co-organizer)

Consulting

Aastrom Inc., XDX (since 01/2014: CareDx), Bristol-Myers Squibb
Member of the Data Safety Monitoring Boards, “Clinical Outcomes Assessment of the MitraClip Percutaneous Therapy for Extremely High-Surgical-Risk Patients (COAPT)”

9. Departmental and University Committees:

01/10	Member and Reviewer, Fellowship Selection Committee, Division of Cardiology, Columbia University Medical Center
01/11	Member and Reviewer, Fellowship Selection Committee, Division of Cardiology, Columbia University Medical Center
07/11	Member and Reviewer, Residency Selection Committee, Department of Medicine, Columbia University Medical Center
12/08	Member, Cardiovascular Research Initiative, Columbia University
01/13	Executive Committee, Cardiovascular Research Initiative, Columbia University
02/13	Member, Dean's report working group "Cardiovascular Research Initiative"
02/13	Member, Metabolism Working Group, Report to the Dean, Columbia University
12/13	Member, Scientific Advisory Committee, Clinical Research Resource, Irving Institute for Clinical and Translational Research, Columbia University

10. Fellowship and Grant Support:

Past Support:

Research Scholarship, German Academy of Scientists - Leopoldina (BMBF-LPD 9901/8-41)	
Funding Period: 08/01 – 12/03	Euro 120,000
Research Award, Working Group of Heart Failure, European Society of Cardiology	
Funding Period: 10/03 – 09/05	Euro 75,000
David W. Haack Award, AstraZeneca Cardiovascular Young Investigators' Forum	
Funding Period: 10/04 – 06/05	USD 10,000
Research Award, German Research Foundation (declined due to competing funding)	
"Analysis of morphologic and molecular pathways in chronic heart failure"	
Funding Period: 01/04 – 01/06	Euro 75,000
Doris Duke Student Fellowship Award to Aalap Chokshi (Student)	
"Myocardial Metabolism in Patients with Heart Failure"	
Funding Period: 07/09 - 06/10	USD 55,000
AHA Scientist Development Award (declined due to competing funding)	
"Myocardial Metabolism in Heart Failure"	
Funding Period: 07/09 - 07/14	USD 580,000
P30 Institutional Project Award, NHLBI P30 HL101272	
"Metabolism in Heart Failure Translational Research Center"	
Funding Period: 09/09 - 09/12	USD 1,166,121
Clinical Trials Pilot Award, Irving Institute, Columbia University	
"Effects of Glutamine and Fish Oil on Muscle Function in HF (GlutFish-HF)"	
Funding Period: 07/10 - 06/11	USD 50,000
Katz Investigator Award, Columbia University	
"Lipotoxicity in HF"	
Funding Period: 11/10 - 11/12	USD 100,000
Clinical Trials Pilot Award, Irving Institute, Columbia University	
"Serial Analysis of Myocardial Metabolism by Positron Emission Tomography in Patients with Heart Failure Undergoing Left Ventricular Assist Device Implantation"	
Funding Period: 07/13 - 06/14	USD 50,000
Core Usage Funding Program, Columbia University	
"Generation of novel pharmacologic compounds for inhibition of de novo ceramide synthesis through serine palmitoyl transferase blockade"	
Funding Period: 07/13 - 06/14	USD 10,000

Present Support:

K23 Career Development Award, NHLBI K23 HL095742	
“Skeletal and Myocardial Metabolism and Proteolysis in Heart Failure”	
Funding Period: 07/09 - 07/14	USD 696,000
Irving Clinical Research Scholar Award, Columbia University	
“Cardiac Metabolism in Heart Failure”	
Funding Period: 07/11 – 07/14	USD 180,000
NHLBI RO1 Award, NHLBI RO1 HL114813	
“Lipotoxicity and Ceramide Metabolism in Heart Failure”	
Funding Period: 07/13 – 06/18	USD 3,232,063
Heart Failure Society of America Research Award to Raymond Givens (Fellow)	
Role: Research Mentor	
“MicroRNA Profiling in Patients with Cardiac Amyloidosis and Heart Failure”	
Funding Period: 07/13 – 12/14	USD 55,000
International Society of Heart and Lung Transplantation to Raymond Givens (Fellow)	
Role: Research Mentor	
“MicroRNA Profiling in Patients with Orthotopic Heart Transplant Rejection”	
Funding Period: 07/13 – 12/14	USD 55,000
Imaging and Biomarkers of Acute Heart Failure (Bristol-Myers Squibb)	
Funding Period: 09/14 – 11/16	USD 1,300,000
Human Cardiac Tissue Depository Chronic Heart Failure (Bristol-Myers Squibb)	
Funding Period: 08/14 – 07/15	USD 98,000

Clinical Trials coordinated at the Geier Clinical Research Center (Director: P. C. Schulze):

- Coordination of >12 clinical studies supported by industry and a prospective database monitoring patients with advanced heart failure before and after heart transplantation (>1500 subjects)
- Centralized center for the design and execution of clinical studies of the Center for Advanced Cardiac Care, Columbia University
- One research nurse, 2 research coordinators and one biostatistical coordinator
- Annual budget >USD 1,300,000

- 07/10-12/12 GLUTFISH-HF (PI: Dr. Schulze) Supplementation of high dose glutamine and fishoil compared to placebo to improve skeletal muscle function and exercise performance in patients with heart failure (sponsor: Irving Institute).
- 07/09- Tissue depository at the Center of Advanced Cardiac Care (PI: Dr. Schulze) This tissue bank is a standardized collection of human tissue samples collected from patients with advanced heart failure at the time of LVAD implantation and during cardiac transplantation. The tissue bank includes serum and plasma samples, myocardium, adipose tissue, aortic tissue and skeletal muscle specimens. Extensive clinical and laboratory data are collected in an accompanying databank.
- 12/12- STOP-HF (PI: Dr. MaryJane Farr) A placebo-controlled, randomized double-blinded phase II study for evaluating the safety and efficacy of JVS-100 in patients with late stage heart failure (sponsor: Juventas Therapeutics).
- 12/12- CELL-004 (PI: Dr. Donna Mancini) A Study of Genetically Targeted Enzyme Replacement Therapy using AAV1/SERCA2a (MYDICAR) for Advanced Heart Failure (CUPID-2b) (sponsor: Celladon Corporation)
- 12/09- PARADIGM-HF (PI: Dr. Mathew Maurer) Evaluation of the Efficacy and Safety of LCZ696 Compared to Enalapril on Morbidity and Mortality of Patients With Chronic Heart Failure (sponsor: NOVARTIS)

- 06/11- HEARTSBREATH (PI: Dr. Donna Mancini) Demonstration and validation of a breath test for detection of biomarkers of heart transplant rejection (Grade 2R heart transplant) (sponsor: Menssana Research, Inc.)
- 03/10- Peripartum Cardiomyopathy Network (PCN) (PI: Jennifer Haythe) Registry of patients presenting with a new onset of peripartum cardiomyopathy (sponsor: NIH)
- 1/11- CTOT-11 (PI: Donna Mancini) Prevention of Cardiac Allograft Vasculopathy Using Rituximab (Rituxan) Therapy in Cardiac Transplantation (sponsor: NIH)
- 1/13- REVIVE-IT (PI: Dr. Donna Mancini) Evaluation of VAD InterVENTion Before Inotropic Therapy, Core Center for Exercise Studies
- 09/12- ESCAPE (PI: Bathon) A cohort study of the prevalence, progression, and risk factors for subclinical CVD in men and women with rheumatoid arthritis.
- 03/13 ALLOMAP REGISTRY (XDX) (PI: Farhana Latif) A registry of patients undergoing gene expression profiling following heart transplantation for rejection monitoring.
- 04/13 STEPWISE HF (PI: Donna Mancini) A trial to assess the role of a novel resin for volume control in patients with advanced heart failure.
- 05/13 RIBOCOR (PI: Christian Schulze) A clinical trial for the analysis of the role of modified ribose infusions in patients with heart failure for the control of metabolic abnormalities and cardiac function.
- 05/13 Ixmyelocel-T (PI: Christian Schulze) A placebo-controlled, randomized, double-blind clinical trial for the analysis of the impact of expanded stem cell multicellular therapy using ixmyelocel-T endocardial injection in patients with advanced heart failure (sponsor: Aastrom Inc.).

11. Teaching Experience and Responsibilities:

Academic Teaching:

- 10/97-08/01 Graduate Courses for Medical Students, University of Leipzig, Germany
- 08/01-06/05 Mentoring undergraduate and graduate student research activities, MIT/Harvard Health Science Program
- 07/05-06/07 Teaching Associate, Boston University School of Medicine, Boston, USA
- 07/09- Mentor, T32 Training Award, Cardiovascular Research, Division of Cardiology and Department of Cardiothoracic Surgery, Columbia University
- 07/09- Mentor, T34 Training Award, Metabolism and Obesity, Division of Endocrinology, Diabetes and Obesity, Columbia University
- 11/09 Mentor, Master Student Program in Clinical Nutrition, Columbia University
- 11/09- Mentor, American Heart Association International Mentoring Program
- 01/10- Lecturer, PhD Course “Molecular and Cellular Biology of Nutrients” (G4020), Columbia University
- 03/10- Lecturer, MS Curriculum “Basic Cardiovascular Physiology”, Columbia University
- 07/09- Mentor, T34 Award, Preventive Medicine and Atherosclerosis, Columbia University
- 10/13- Mentor, T32 Award, Physiology, Columbia University
- 09/14-02/15 Course “How to make a drug?” (Co-Director with Andy Marks), Department of Physiology, Columbia University\
- Since 2009 Clinical teaching as part of clinical rotations in Cardiovascular Medicine to students, residents and clinical fellows. Consistently ranked “Outstanding” (8.5 of 9 points).

Mentorship:

- 2009/2010 Aalap Chokshi (Doris Duke Student, *AMA National Student Research Award 2010*, currently Resident at Brown University, Providence, RI)
- 2009 - Ruiping Ji (Research Associate)
- 2009/2010 Michael Chew (Master Student, *AHA Student Research Award 2010*, currently Medical Student at UC Davis)
- 2009/2010 Parvati Singh (Master Student, currently Medical Student at Albert Einstein College of Medicine, New York, NY)
- 2009/2010 Christine Greer (Master Student, currently Medical Student at University of Florida)
- 2010-2012 Yumeko Kawano (Student Researcher), currently Medical Student, Columbia University
- 2010-2012 Meaghan Jones (Research Assistant), currently student in Public Health, Johns Hopkins University, Baltimore, USA
- 2010-2013 Elias Collado (Postdoctoral Fellow), currently Chief Medical Resident, Cleveland Clinic, Miami, Florida
- 2009/2011 Tuba Khawaja (post-doctoral fellow, *Finalist HF Society Research Award 2011*, currently Resident in Family Medicine, New York Hospital, NY)
- 2009-2011 Raffay Khan (post-doctoral fellow, *Travel Award of the AHA 2011*, currently Cardiology Fellow at Emory University, Atlanta, GA)
- 2010/2011 Silvia Qui (Master Student, Medical Student, Mount Sinai School of Medicine)
- 2010/2011 Katherine Pronschinske (Master Student, currently Research Coordinator at Sloan Kettering Cancer Center)
- 2010/2011 Christina Wu (Master Student, now Research Coordinator, Columbia University)
- 2010/2011 Peter Kennel, Medical Student, University of Munich, Germany, *Germany Stipend (Deutschlandstipendium)* awarded to selected outstanding students in Germany; since 04/2014 post-doctoral fellow at Columbia University
- 2011/2012 Christine Chung (Doris Duke Student, currently Resident in Internal Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA)
- 2011/2012 Aarthi Ramarathnam (Masters Student, Institute of Human Nutrition), currently Associate, McKinsey Inc, New York, USA
- 2011/2012 Katherine Xue (Masters Student, Institute of Human Nutrition), currently PhD Student, Columbia University
- 2011/2012 Margaret Kim (Master Student, currently Medical Student at the University of Texas Health Science Center in San Antonio) awarded *Medical Student Training in Research (MSTAR)*, *American Federation for Aging Research, 2013*
- 2011-2013 D'Vasharonne Moore (Postdoctoral Fellow)
- 2011-2013 Cynthia Zizola (Research Associate)
- 2011-2013 Hirokazu Akashi (Postdoctoral Fellow), currently Assistant Professor of Cardiovascular Surgery, Tokio University
- 2012/2013 Amy Xue (Masters Student, Institute of Human Nutrition), currently Research Coordinator, Duke University
- 2012/2013 Mark Dunlop (Masters Student, Institute of Human Nutrition), currently Research Coordinator, Columbia University
- 2012/2013 Lajhem Cambridge (Masters Student, Institute of Human Nutrition), currently Research Coordinator, Columbia University
- 2012-2014 Shuichi Kitada (Postdoctoral Fellow), currently Clinical Attending and Assistant Professor of Medicine, Tokio University
- 2012/2013 Ellie Coromilas (CU Medical Student), *T35 Student Research Award 2012* and *Leonidas Lantzounis Research Grant 2012*

- 2012/2013 Raymond Givens (Cardiology Fellow at Columbia University), *Research Award of the International Society of Heart and Lung Transplantation 2013* und *Research Award of the Heart Failure Society of America (HFSA) 2013*
- 2013/2014 Lily Deng (Master Student in Clinical Nutrition)
- 2013 Shilpa Tiwari (Medical Student Researcher), University of Freiburg, Germany
- 2013 - Sida Li (Student Researcher, Columbia University)
- 2013 - Marc Najjar (Postdoctoral Fellow)
- 2013 - Xiaokan Zhang (Postdoctoral Fellow)
- 2013 - Xianghai Liao (Research Associate)
- 2013 - Danielle Templeton (Postdoctoral Fellow)
- 2011-2014 Tomoko Kato (Research Associate), currently Associate Professor of Medicine, Tokio University
- 2014 - Dina Feng (Postdoctoral Fellow)

Invited Lectures and Seminars:

- 01/01 “Peripheral dysregulation of IGF-1 expression in chronic heart failure”, Research Seminar, Department of Physiology (Host: Prof. Irvin Zucker), University of Nebraska, Omaha, USA
- 10/01 “Abnormalities of skeletal muscle structure and function in the syndrome of chronic heart failure”, Pfizer Research, Groton, CT
- 04/03 “Muscular activation of the ubiquitin-proteasome pathway in chronic heart failure”, Research Seminar (Host: Nadia Rosenthal), European Molecular Biology Laboratory, Monterotondo/Rome, Italy
- 12/03 “Transcriptional regulation of wasting”, Cachexia Conference, Berlin, Germany
- 05/04 “Transgenic overexpression of IGF-1 prevents muscular activation of the ubiquitin-proteasome pathway in chronic heart failure”, Research Seminar (Host: Olof Hasselgren), Department of Surgery, Beth Israel Deaconess Medical Center, Boston,
- 06/04 “Regulation of myocardial redox balance by thioredoxin-interacting protein, the endogenous inhibitor of thioredoxin function”, Research Seminar, Cardiovascular Division, Department of Medicine, Brigham and Women’s Hospital, Harvard Medical School, Boston, USA
- 07/04 “Hyperglycemia promotes oxidative stress through inhibition of thioredoxin function by Txnip”, Research Seminar, University of Leipzig, Germany
- 07/04 “Regulation of cardiovascular redox balance by thioredoxin-interacting protein, the endogenous inhibitor of thioredoxin function”, Research Seminar, Interdisciplinary Center for Clinical Research, Leipzig, Germany
- 01/05 “Regulation of skeletal muscle wasting in chronic heart failure by the ubiquitin-proteasome system”, Research Seminar (Host: Prof. Alfred Goldberg), Harvard Cell Biology, Boston, USA
- 02/05 “Regulation of thioredoxin antioxidative function in hyperglycemia”, Research Seminar, Cardiovascular Seminar Series (Host: Dennis Bruemmer), University of Kentucky, Lexington, USA
- 05/05 “Cardiovascular Effects of the antioxidative thioredoxin system in hyperglycemia”, Research Seminar (Host: Kenneth Walsh), Whitaker Cardiovascular Institute, Boston University, Boston, USA
- 01/06 “Catabolic/Anabolic imbalance in cardiovascular disease and aging”, Fundamentals in Cardiovascular Aging Seminar Series, Boston University, USA
- 04/06 “E3 ligases and the ubiquitin proteasome system-Novel regulators of cardiac hypertrophy and failure”, Annual Meeting of the German Cardiac Society, Mannheim, Germany

- 01/07 “Regulation of the ubiquitin-proteasome system in cardiac hypertrophy and failure”, Research Seminar, Department of Cardiology, MH Hannover (Host: Helmut Drexler), Germany
- 04/07 “Changes in the antioxidative thioredoxin system in diabetes mellitus and their effects on cardiovascular disease progression”, Research Seminar, The Karolinska Institute (Host: Goran Hansson), Stockholm, Sweden.
- 04/07 “Catabolic/Anabolic imbalance in chronic cardiovascular disease - Implications for mechanisms of muscle atrophy and hypertrophy”, The Swedberg Lecture, University of Uppsala (Host: Lars Larsson), Sweden.
- 04/07 “Regulation of thioredoxin antioxidative function in hyperglycemia”, Research Seminar, University of Würzburg (Host: G. Ertl), Germany.
- 04/07 “Changes in the antioxidative thioredoxin system in diabetes mellitus and their effects on cardiovascular disease progression”, Research Seminar, Department of Cardiology, University of Freiburg (Host: Christian Bode), Germany.
- 05/07 “The antioxidative thioredoxin system in cardiovascular disease”, Research Seminar, Department of Molecular Medicine, Columbia University (Host: Ira Tabas).
- 01/08 “The cardiovascular thioredoxin system - A novel redox-sensitive metabolic sensor”, Research Seminar, Cardiovascular Research Institute, Mount Sinai Hospital, (Host: Roger Hajjar).
- 11/08 “Regulation of the antioxidative thioredoxin system in diabetes mellitus and heart failure”, Grand Rounds, Division of Cardiovascular Medicine, Vanderbilt University (Host: Douglas Sawyer).
- 02/09 “Metabolic abnormalities in skeletal muscle and myocardium in heart failure”, Research Seminar (Host: Wilson Colucci), Whitaker Cardiovascular Institute, Boston University, Boston, USA.
- 09/09 “Abnormal metabolism in heart failure – skeletal muscle and myocardial catabolism and proteolysis”, Research Seminar, Columbia University (Host: Rudi Leibel)
- 03/10 “Adipokines and the Risk of Heart Failure” American College of Cardiology, 59th Annual Scientific Session, Atlanta, USA
- 02/11 “Metabolic Abnormalities in Heart Failure”, Tulane University (Host: Thierry LeJemtel)
- 02/11 “Career Perspectives in Academic Cardiology”, AHA Fellows Society New York.
- 05/11 “Mechanistic Insights into LVAD Therapy: Lessons from the Bench”, CATCH-UP symposium, Columbia University, USA
- 05/11 “Advanced Heart Failure – Novel Therapeutic Options”, University of Würzburg, Germany
- 06/11 “Metabolism in Heart Failure”, California Pacific Medical Center, Grand Rounds Cardiology, San Francisco, USA
- 07/11 “Metabolism in Advanced Heart Failure and its Implications”, University of Würzburg, Germany
- 07/11 “Limitations of Current Medical Therapies for Heart Failure”, European Mechanical Circulatory Support Summit, Paris, France
- 12/11 “Abnormal Skeletal Muscle Metabolism in Advanced Heart Failure”, Symposium on Muscle Metabolism, Columbia University, New York, USA
- 04/12 “Listing Criteria for Patients Evaluated for Heart Transplantation and LVAD Implantation”, German Society of Cardiology, Annual Meeting, Mannheim, Germany
- 05/12 “The Role of Renal Dysfunction and the Frailty Index during LVAD Evaluation”, CATCH-UP Symposium, Columbia University, New York, USA
- 06/12 “Derangements of Skeletal Muscle Metabolism in Heart Failure”, Society of Heart and Vascular Metabolism, Oxford, UK

- 12/12 “Cardiac metabolism in Advanced Heart Failure”, European Mechanical Circulatory Support Summit, Bad Oeynhausen, Germany
- 01/13 “Metabolic Remodeling in Heart Failure”, Utah Cardiac Recovery Symposium, Salt Lake City, Utah, USA
- 02/13 “Ceramide Metabolism in Heart Failure”, Keystone Meeting on Cardiac Metabolism, Keystone, Colorado, USA
- 02/13 “Myocardial Substrate Usage”, Cardiology Grand Rounds, Columbia University
- 04/13 “Cardiac metabolism in advanced heart failure”, Montefiore Medical Center, Albert Einstein Medical Center, New York, NY
- 04/13 “Impaired cardiac metabolism in heart failure and the impact of LVAD support”, Invited speaker, International Society of Heart and Lung Transplantation, Montreal, Canada
- 05/13 “Cardiac Metabolism in HF”, CATCH-UP Symposium, Columbia University, New York, USA
- 05/13 “Abnormal Lipid Metabolism in Heart Failure”, American College of Sports Medicine 60th Annual Meeting, Indianapolis, Indiana.
- 11/13 “Advanced Heart Failure- Medical Therapies”, European Association of Cardiothoracic Surgery, Windsor, United Kingdom
- 12/13 “Myocardial Recovery in Advanced Heart Failure”, Mechanical Circulatory Support Meeting, Berlin, Germany
- 04/14 “Adipose Tissue Metabolism in Advanced Heart Failure”, American College of Cardiology, Annual Scientific Session, Washington, USA
- 05/14 “Advanced Heart Failure – Drugs, Devices and Cardiac Transplantation”, Meeting of the Working Group of Heart Failure of the European Society of Cardiology, Athens, Greece
- 05/14 “Cardiac Ceramide Metabolism in Heart Failure”, Medical University of South Carolina, Charleston, USA
- 06/14 “Therapeutic Interventions to Target Metabolism in Heart Failure”, Annual Meeting of the Society of Heart and Vascular Metabolism, Tromso, Norway
- 08/14 “Therapeutic options in Advanced Heart Failure – Drugs, Devices and Heart Transplantation”, Annual Meeting of the Chinese Association of Cardiology, Beijing, China

12. Patents and Inventions:

1. Schulze PC and Seres DS “Anti-inflammatory and pro-anabolic effects of the combination of omega-3 polyunsaturated fatty acids and glutamine” PCT/US2011/030688
2. Schulze PC and Tuschl T “Cardiac and circulating microRNA profiles for the diagnosis and treatment of heart failure” Under Review.
3. Schulze PC “Inhibition of serine palmitoyl transferase to prevent myocardial remodeling in heart failure” Under Review.

13. Publications:

Original, Peer Reviewed Articles (* indicates senior or co-senior authorship):

1. Schwarzmaier HJ, Yaroslavsky A, Yaroslavsky I, Goldbach T, Kahn T, Ulrich F, **Schulze PC**, Schober R. Optical properties of native and coagulated human brain structures. *SPIE* 1997; 2970:492-499.
2. **Schulze PC**, Thal DR, Bettag M, Schober R. Brain tissue damage and regeneration monitored by β -amyloid precursor protein in experimental laser-induced interstitial thermotherapy. *Neuropathology* 1998; 18:55-61.
3. **Schulze PC**, Kahn T, Harth T, Schwarzmaier HJ, Schober R. Correlation of neuropathologic findings and phase-based MRI temperature maps in experimental laser-induced interstitial thermotherapy. *JMRI* 1998; 8:115-120.
4. **Schulze PC**, Adams V, Busert C, Bettag M, Schober R. Effects of laser-induced thermotherapy (LITT) on proliferation and apoptosis of glioma cells in rat brain transplantation tumors. *Lasers Surg Med* 2002; 30(3):227-32.
5. Hambrecht R, **Schulze PC**, Gielen S, Linke A, Möbius-Winkler S, Yu J, Kratzsch JJ, Baldauf G, Busse MW, Schubert A, Adams V, Schuler G. Reduction of insulin-like growth factor-I expression in the skeletal muscle of non-cachectic patients with chronic heart failure. *J Am Coll Cardiol* 2002; 39(7):1175-1181.
6. Adams V, Nehrhoff B, Späte U, Linke A, **Schulze PC**, Baur A, Gielen S, Hambrecht R, Schuler G. Induction of iNOS expression in skeletal muscle by IL-1 β and NF- κ B activation: An in vitro and in vivo study. *Cardiovasc Res* 2002; 54(1):95-104.
7. **Schulze PC**, Schober R. Fine structure analysis of laser-induced tissue alterations in the central nervous system. *Med Laser Appl* 2002; 17(1):34-40.
8. Yaroslavsky A, **Schulze PC**, Yaroslavsky I, Ulrich F, Schober R, Schwarzmaier HJ. Optical properties of normal and coagulated brain structures in vitro in the visible wavelength range. *Phys Med Biol*. 2002; 47(12):2059-73.
9. **Schulze PC**, De Keulenaer GW, Yoshioka J, Kassik KA, Lee RT. Vitamin D3 Up-regulated protein-1 (VDUP-1) regulates redox-dependent vascular smooth muscle cell proliferation through interaction with thioredoxin. *Circ Res*. 2002; 91(8):689-95.
10. **Schulze PC**, Kluge E, Schuler G, Lauer B. Periprocedural kinetics in serum levels of cytokines and adhesion molecules in patients undergoing elective PTCA and stent implantation: Possible impact on restenosis. *Arterioscler Thromb Vasc Biol*. 2002; 22(12):2105-2107.
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12. Takahashi T, Lord B, **Schulze PC**, Fryer R, Sarang SS, Gullans SR, Lee RT. Ascorbic Acid Enhances Differentiation of Embryonic Stem Cells into Cardiac Myocytes. *Circulation*. 2003; 107, 1912-1916.
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