

## **Véronique Lee Roger, M.D., MPH, FACC, FAHA**

### **PERSONAL INFORMATION**

Place of Birth: Jacksonville, FL, USA

Citizenship: USA-French

Spouse: Maurice E. Sarano, M.D.

Children: Louis-Gabriel, May 25, 1993  
Charles-David, February 1, 1995

Home address: 2533 Hawthorn Hill Road, NE, Rochester, MN 55906

Professional address: Mayo Clinic  
200 First Street SW  
Rochester, MN 55905  
Tel (507) 538-6916; Fax (507) 284-1516  
Email: roger.veronique@mayo.edu

### **PRESENT ACADEMIC RANK AND POSITION**

Professor of Medicine, Mayo Clinic College of Medicine - July 2002 - present

Professor of Epidemiology, Mayo Clinic College of Medicine - May 2006 - present

Chair, Department of Health Sciences Research, Mayo Clinic - April 2007 - September 2012

Consultant, Division of Cardiovascular Diseases, Department of Medicine and Division of Epidemiology, Department of Health Sciences Research, Mayo Clinic - January 1995 - present

Director, Mayo Clinic Center for the Science of Health Care Delivery - 2010 - present

Elizabeth C. Lane PhD, and M. Nadine Zimmerman PhD, Professor in Internal Medicine - 2013 - present

Adjunct Faculty Member, Arizona State University, College of Health Solutions - April 25, 2013 - present

### **EDUCATION**

Lycée Racine: Paris, France - Baccalaureat in Science, 1975

University of Paris: School of Medicine, St. Antoine Hospital: Paris, 1975-1981

Participation to the 20<sup>th</sup> U.S. Seminar on the Epidemiology and Prevention of Cardiovascular Diseases. Council on Epidemiology and Prevention of the American Heart Association and the National Heart, Lung, and Blood Institute. 1994

University of Minnesota, School of Public Health: Masters in Public Health Epidemiology Major, September 18, 1995 - September 17, 1996

### **BOARD CERTIFICATIONS**

\*Medical degree - U. of Paris VI - May 1986

\*Certificate in "Special Cardiology Studies"

October 1987 (Corresponding to Board Certification in Cardiology in the USA)

\*Educational Commission for Foreign Medical Graduates Certificate (Certificate n° 326-9180)

\*Passed FLEX in June, 1988.

\*ABIM Certification. Internal Medicine 08-28-2006

\*ABIM Certification. Cardiovascular Diseases 10-28-2007

## **MEDICAL LICENSURE**

Licensure: State of Minnesota  
# 32522, March 26, 1991

Licensure: France

## **HONORS/AWARDS**

\*Phi Kappa Phi Honor Society, Chapter of the University of Minnesota, 1997

\*Loren Berry Scholar, Mayo Foundation, 1998

Mayo Individual Award for Excellence, 1999

Award for best poster in population sciences at the American Heart Association Scientific Sessions to Dr Roger, 2008

Mayo Clinic, Department of Medicine Outstanding Investigator Award, 2010

Association of University Cardiologists, elected 2014

Association of American Physicians, elected 2014

Geoffrey Rose Lecturer European Society of Cardiology 2014

Salzburg Global Seminar Fellow, December 2014

Silver Medal European Society of Cardiology 2014

Named by Thomson Reuters as one of "The World's Most Influential Scientific Minds" 2014-2015

Special Recognition for Outstanding Service as Chair  
American Heart Association/American Stroke Association  
Council on Epidemiology and Prevention  
EPI/Lifestyle Scientific Session Program Committee  
March 2014 - March 2016

White House Office of Science and Technology Policy Open Data Roundtables, participant  
March 24 and May 25 2016.

## **PREVIOUS PROFESSIONAL POSITIONS AND APPOINTMENTS**

\*Interne des Hôpitaux de Paris--October 1982 to October 1986

\*Cardiology Fellowship--Mayo Clinic: Rochester, Minnesota, USA

October 1986 to August 1988 and November 1990 to March 1992

\*Chef de Clinique Assistant des Hôpitaux de Paris in the Cardiology Department of Tenon Hospital (Pr. ACAR) November 1988 to November 1990

Instructor in Medicine, Mayo Clinic College of Medicine - April 1, 1991 – July 1, 1994

Senior Associate Consultant in the Cardiovascular Division at the Mayo Clinic:

Rochester, Minnesota--March 1992 to January 1995

Assistant Professor of Medicine, Mayo Clinic College of Medicine - July 1, 1994 – 1998

Associate Professor of Medicine, Mayo Clinic College of Medicine - July 1, 1998 – 2002

## **PROFESSIONAL MEMBERSHIPS AND SOCIETIES (Extramural)**

### **Government Committees/Advisory Boards**

National Institutes of Health, Center for Scientific Review,  
Cardiovascular and Sleep Epidemiology (CASE) Study Section,  
Chartered Member, 2007 – present  
Chair, July 1, 2010-June 30, 2012

National Institutes of Health, National Center for Research Resources (NCRR)  
GCRC site review  
Member, April 4-5 2005

National Institutes of Health, Big Data to Knowledge (BD2K)  
Enabling Research Use of Clinical Data, workshop participant  
October 2013

National Institutes of Health, National Heart Lung and Blood Institute,  
Expert Panel on Community Surveillance  
Member, May 16-17, 2001, Bethesda, MD  
Jackson Heart Study  
Consultant, March 2002  
Working Group on MI Ascertainment for Epidemiological Studies with American Heart Association  
Member, May 28-30, 2002  
Concept review for the Women's Health Initiative Study  
April 2003  
Observational Study Monitoring Board, Atherosclerosis Risk in Community study  
Member, 2003-2009, Chair, 2013 - present  
Special Emphasis Panel/Scientific Review Group for K awards  
Review Panel Member, 2004-2009

Data Needs for Cardiovascular Events, Management, and Outcomes  
Member, May 26-27, 2005  
Working Group on Asymptomatic Left Ventricular Dysfunction  
Chair, August 22, 2005  
Strategic Planning 2006, Working Group on Heart Failure and Cardiomyopathy  
Level 1 Co-Chair, Level 2 participant  
NIH Director's "Big Think" Meeting  
Member, May 7, 2010  
Women's Health Initiative (WHI) Field Centers Review to 2015  
Chair, May 19, 2010  
NHLBI Advisory Council 2012-2016  
Chaired the NHLBI Advisory Council and Board of External Experts Working  
Group on the Strategic Transformation of Population Studies- November 2013-  
October 2014  
Member, (representing NHLBI Council) of the Big Data to Knowledge (BD2K)  
Multi-Council Working Group, to provide trans-NIH programmatic input to BD2K  
NHLBI Board of Scientific Counselors Committee  
Member 2016-present

#### **Other Professional Boards and Committees**

Institute of Medicine of the National Academies,  
Clinical Effectiveness Research Innovation Collaborative  
Member, October 21, 2009 until present

American College of Cardiology  
Member, 1993-present  
Fellow, September 15, 1993-present  
Research Committee  
Member, 2002-2005  
Quality Strategic Directions Committee  
Ex-officio Member, April 1, 2008-March 31, 2011

Clinical Quality Committee  
Member, 2009-2011  
SCP Sub Committee  
Member, 2009-2011

American College of Cardiology/American Heart Association  
Clinical Data Standards Committee  
Member, 2005-2007  
Vice Chair, 2007  
Chair, January 2008 - December 2010

American College of Cardiology/Society of Thoracic Surgeons  
Steering Committee – ACCF-STS Database Collaboration on the Comparative  
Effectiveness of Revascularization Strategies (ASCERT) Study

American Heart Association  
*Council on Clinical Cardiology*  
Member, 1994-present  
Fellow, 1998-present

*Council on Epidemiology and Prevention*

Member, 1994-present

Fellow, 2001-present

Vice Chair 2016-present

Statistics Committee

Member, 2005-2011

Vice Chair, 2007-2009

Chair, 2009-2011

Epidemiology and Prevention / Nutrition, Physical Activity and Metabolism 2013

Scientific Sessions

Vice Chair, 2012-2014

Chair 2014-2016

Early Career Committee

Member, 2016-2017

2016-2017 Epi Lifelong learning Program Committee (SCILL)

Voting Member 2016-2019

*Women in Cardiology Committee*

Member, 1997-1999

*Northland Affiliate of the American Heart Association Research Committee*

Member, 1999 to 2003

*Peer Review Committee*

Member, 2001 to 2003

*Executive Database Steering Committee 2016*

*Quality of Care and Outcomes Council*

Meeting Organizing Committee, Member, 2004-2005

Leadership Committee Epidemiology and Prevention Council

Representative July 1, 2012 – June 30, 2013

*Science Advisory & Coordinating Committee*

Member, 2006-2009

*Research Committee*

Member, July 1, 2009 – June 30, 2014

*Policy and Evaluation Subcommittee*

Chair, 2010 – 2012

Member 2010-2014

*Evaluation Framework Subgroup*

Member, 2010-2011

*Writing Committee: Cardiovascular Health*

Member, 2011-present

*Research Evaluation Metric Task Force Research Committee*

Member August 2011 – June 2012

*Portfolio Task Force Committee*

Member January 2012 – April 2012

*Mission Metrics Task Force*

Member September 2012-present

*Council on Lifestyle and Cardiometabolic Health*

2016-2017 Leadership Committee

Liaison, EPI Council July 1 2016 – June 30, 2018

*American Stroke Association Research Leaders Academy*

Faculty, July 24-26, 2016

*EPI Council - Early Career Committee*

Senior Advisor, 2016-2018

Optum Labs Scientific Advisory Board  
Member 2013-present

Well Living Lab (WLL) Scientific Advisory Board  
Member 2016-present

### **Professional Societies**

Member French Society of Cardiology, 1986 - present  
Member American Society of Echocardiography, 1990 - present  
Member Minnesota Medical Association, 1990 - present  
Member Central Society for Clinical Research, 2003 - present

### **Editorial Boards**

*American Heart Journal*, 2005  
*Journal of Cardiovascular Translational Research, JCTR*, 2010-2012  
*Circulation: Cardiovascular Quality and Outcomes*, 2009 - present

### **Guest Editor**

*Circulation*, 2008-2010

### **Associate Editor**

*Circulation: Cardiovascular Quality and Outcomes*, 2010 - present

### **Scientific Committee**

*Archives of Cardiovascular Diseases*

### **Scientific Reviewer for:**

*The Lancet*  
*Journal of the American Medical Association*  
*Circulation*  
*Journal of the American College of Cardiology*  
*American Journal of Cardiology*  
*American Heart Journal*  
*Journal of the American Society of Echocardiography*  
*Mayo Clinic Proceedings*  
*European Heart Journal*  
*New England Journal of Medicine*

### **EDUCATIONAL ACTIVITIES**

**Course directorship**, HSR 5920 - The Epidemiology of Cardiovascular Diseases; Mayo Clinic Clinical Research training program.

**Mentorship**, Dr Roger mentored junior faculty, research fellows or medical students, who have been the recipient of grants and first authors on peer reviewed manuscripts.

| <b>Name</b>                      | <b>Dates of Mentorship</b> | <b>Present Position</b>  |
|----------------------------------|----------------------------|--|
| Olivier Nallet, MD               | 1988-1990                  | Cardiologist, Hospital de Montfermeil, France  |
| Robert McCully, MD               | 1995                       | Consultant, Division of Cardiovascular Diseases, Mayo Clinic                             |
| Steve Lin, MD                    | 1997                       | Cardiologist, Cardiology Associates of Kentucky  |
| Roess Pascoe, MD                 | 1996                       | Cardiologist-Hearts 1st, Australia   |
| Donna Milavetz, MD               | 1997-1998                  |  |
| Susannah Daly (Copland), MD      | 1996-1997                  | Assistant Professor, Duke Fertility Center   |
| Christophe Tribouilloy, MD, PhD  | 1997-1999                  | Professor of Medicine, Division of Cardiovascular Diseases, Amiens Hospital, France      |
| Paul Targonski, MD, PhD          | 1998-1999                  | Consultant, Primary Care Internal Medicine, Mayo Clinic                                  |
| Akbar Khan, MD                   | 1999                       | Cardiologist, St. Paul Heart Clinic  |
| Tauqir Goraya, MD, PhD           | 1999-2001                  | Cardiologist, Michigan Heart   |
| Jens Hellermann, MD              | 2000- 2002                 |  |
| Mandeep Singh, MD                | 2000-present               | Consultant, Division of Cardiovascular Diseases, Mayo Clinic                             |
| James Burke PhD                  | 2001                       |  |
| Adriana Slobodova, MD            | 2000                       | Cardiologist, Billings Clinic  |
| Brandi Witt, MD                  | 2001-2008                  | Cardiologist, North Memorial Health Care, MN   |
| Francisco Lopez-Jimenez, MD, MSc | 2001-2003                  | Consultant, Division of Cardiovascular Diseases, Mayo Clinic                             |
| Maan Jokhadar, MD                | 2002-2003                  | Instructor, Emory University Hospital  |
| James Persbacher, MD             | 2002-2004                  | Cardiologist, Metro Heart Group, St. Louis   |
| Theresa Arciero, MD              | 2002-2003                  |  |
| Danielle Henkel, MD              | 2004-2007                  | Cardiologist, Olmsted Medical Center   |
| Francesca Bursi, MD              | 2004-2012                  | Research Fellow-Mayo Clinic<br>Currently Assistant Professor University of Modena, Italy |
| Yariv Gerber, PhD                | 2004 - present             | Associate Professor Tel Aviv University  |
| Salma Ifthikar, MD               | 2004-2007                  | Consultant, General Internal Medicine, Mayo Clinic                                       |
| Serguei Pakhomov, PhD            | 2005-2010                  | Associate Professor, College of Pharmacy, University of Minnesota                        |
| Rosebud Roberts, PhD             | 2005-2010                  | Professor, Epidemiology, Mayo Clinic   |
| Aaron From, MD                   | 2004-present               | Resident, Internal Medicine Mayo Clinic  |
| Christopher Kurtz, MD            | 2004-2006                  | <a href="#">Harborview Medical Center Cardiology Clinic</a>                              |

|                             |              |  |
|-----------------------------|--------------|--|
| Adelaide Olson, MD, PhD     | 2005-present | Associate Professor, Cardiovascular Diseases, Mayo Clinic                              |
| Richard Patch, MD           | 2006-2009    | Resident, Internal Medicine Mayo Clinic  |
| Shannon Dunlay, MD, MSc     | 2007-present | Associate Professor, Cardiovascular Diseases, Mayo Clinic                              |
| Suzette Bielinski, PhD, MSe | 2008-present | Associate Professor, Epidemiology Mayo Clinic  |
| Patricia Jabre, MD, PhD     | 2009-2010    | Assistance Publique, Hôpitaux de Paris   |
| Alanna Chamberlain, PhD     | 2009-present | Assistant Professor, Epidemiology Mayo Clinic  |
| Amanda Moraska              | 2010-present | Medical student, Mayo Medical School   |
| Erik Hess, MD               | 2010-present | Consultant, Emergency Medicine, Mayo Clinic  |
| Bhautesh Jani, MBBS         | 2014         | Clinical Academic Fellow (General Practice and Primary Care), University of Glasgow UK |
| Margaret Akinhanmi          | 2014         | Predoctoral Student, Mayo Clinic   |
| Geoff Huntley               | 2014         | Medical Student, Mayo Medical School   |

### **INSTITUTIONAL/DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS, AND OTHER ACTIVITIES**

#### **Division of Cardiovascular Diseases**

Executive Committee

Member, 1996 - 2004

Research Committee

Member, 1993 - 1998

Chair, 1998 - 2004

Education Committee, Member, 2000 - 2006

#### **Mayo Departmental and Institutional committees**

Child Care Task Force

Chair; 1997 - 1998

Internal Medicine Outcomes Research Committee

Member, 1997 - 1999

Women's Health Care Council, Research Subcommittee

Member, 1997 - 1999

Department of Medicine, Balance Task Force

Member, 2001

General Clinical Research Center Advisory Board

Vice Chair, 2002 - 2003

Mayo Clinic Research Committee

Member, 2002 - 2013

Research Finance Subcommittee

Member, 2003 - 2006



Clinical Research Subcommittee of the Mayo Clinic Rochester Research Committee  
Member, 1999 - 2001  
Vice Chair, November 2001 - March 2002,  
Chair, March 2002 - 2003.

Mayo Clinic Study Section of the Clinical Research Subcommittee,  
Member, 2000  
Vice Chair, January 2001 - 2003

Clinical Research Training Program (CTRP)  
Advisory Board  
Member, May 2002 - present

Comprehensive Examination Committee  
Member, 2003 - present

Scientific Advisory Council  
Member, 2010

Personnel Committee of the Mayo Clinic Rochester Executive Board  
Member, 2003 - 2006  
Vice Chair, 2006 - 2009

Work-Life Subcommittee  
Member, January 1999 - 2002  
Chair, 2003 - 2006  
Employee Survey Task Force  
Chair, 2001 - 2009

Professional Enhancement Initiative Subcommittee  
Member, 2002 - 2009  
Career and Leadership Development  
Member, 2004 - 2006

Heart, Lung and Blood Research  
Theme Leader, 2003 - 2007

Academic Appointment and Promotion Committee  
Member, 2006 - 2007

Mayo Graduate School  
Master's Faculty Privileges in Health Sciences Research, June 2000 - present

Center for Innovation, Internal Advisory Council  
Member, 2009 - present

Board of Governors, Mayo Clinic  
Member, 2011 – 2015

Board of Trustees, Mayo Clinic  
Member, 2011-2015

Rochester Executive Operations Team, Mayo Clinic

Member, 2009 – 2010

Center for the Science of Health Care Delivery, Mayo Clinic  
Medical Director, 2010 - present

## **PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS**

### **National Presentations**

1. Mayo International Education Series--Current Opinions in Cardiology. May 13-15, 1991, Rochester, Minnesota.
2. American College of Cardiology, Heart House. Echocardiography For The Sonographer: 2-D/Doppler, Color Flow Imaging, TEE, And Stress Echo - Practical Review. March 1992, Bethesda, Maryland.
  - Aortic stenosis: 2D/Doppler assessment of severity - Calculation of peak and mean gradients and aortic valve area. Illustrative examples and pitfalls.
  - 2-D echo diagnosis of myocardial infarction: How to assess wall motion score.
  - Dobutamine stress echo: Methodology and applications.
  - Pericardial effusion, cardiac tamponade, and constriction: Diagnostic assessment by 2-D/Doppler.
3. University of Alabama, School of Medicine, UAB Division of Continuing Medical Education. Echocardiography: State of the Art. November, 1992, New Orleans, Louisiana.
  - Ischemic Heart Disease and Stress Echo: Echocardiography in post-MI risk stratification
4. Miami Valley Hospital. December 1992, Dayton, Ohio.
  - Exercise Echo for Diagnosis of Ischemic Heart Disease, The State of the Art
  - Evaluation of Stunned and Hibernating Myocardium and Post Myocardial Infarction Risk Stratification: Role of Stress Echo
  - Valvular Stenosis (AS & MS): Doppler Assessment of Gradient and Valve Area, Impact on Management
5. American College of Cardiology, State-of-the-Art Echocardiography, February 1993, Tucson, Arizona.
  - Exercise echo for diagnosis of ischemic heart disease. The state of the art.
  - Evaluation of stunned and hibernating myocardium and post myocardial infarction risk stratification: Role of stress echo.
  - Valvular stenosis (AS & MS): Doppler assessment of gradient and valve area. Impact on management.
6. American College of Cardiology, Echo Hawaii, February 1994, Maui, Hawaii.
  - Valvular stenosis (AS and MS): Doppler assessment of severity, accurate calculation of gradient, resistance, and valve area. When are invasive hemodynamics justified?
  - Evaluation of stunned and hibernating myocardium. How reliable is 2-D echo?
  - Exercise echocardiography: Implementation, indications, interpretation, and correlations with angiography and SPECT thallium.
7. American Society of Echocardiography Meeting, June, 1994, San Francisco, California.

8. American College of Cardiology, Heart House. Echocardiography: A Clinical Review - Emphasis on TEE, Stress Echo and Doppler Hemodynamics. May 11-13, 1995, Bethesda, MD.
  - Mitral and aortic stenosis: assessment of severity by comprehensive 2-D/Doppler and color flow imaging - Role of echo in patient management.
  - Dobutamine stress echo: methodology and clinical experience.
  - Echocardiography in hypertension: assessment of LV mass and diastolic filling dynamics.
9. Echocardiography for the Sonographer: The State-of the-Art: Emphasis on Registry Review. Mayo Clinic Continuing Medical Education, Rochester, Minnesota.
  - Aortic Stenosis: 2-D/Doppler assessment of severity calculation of peak and mean gradients and aortic valve area. Pitfalls and limitations
10. American College of Cardiology, Echo Hawaii, February 1996, Maui, Hawaii.
  - Valvular stenosis (AS & MS): Doppler assessment of severity (gradient and valve area). Impact on clinical practice.
  - Exercise echocardiography: State of the art 1996.
  - Distinctive echocardiographic features of systematic diseases (amyloid, carcinoid, hemochromatosis, hypereosinophilic syndrome).
11. Cardiology Today and Tomorrow "Contemporary Management: Hypertension and Heart Disease in Women", Mayo Clinic, August 17, 1996, Rochester, MN.
  - Challenge of evaluating stress tests in women
  - Gender Bias. Does it really exist?
12. CV Update, October 26, 1996, Rochester, MN.
  - Heart disease in women: issues and challenges
13. American College of Cardiology, State-of-the-Art Echocardiography, February 1997, Tucson, Arizona.
  - Valvular Stenosis (AS and MS): Doppler Assessment of Severity (Gradient and Valve Area). Impact on Clinical Practice.
  - Dobutamine Stress Echo: Overall Clinical Experience and Role in Preoperative Risk Assessment.
14. Geriatric Update for the Primary Care Physician, October 30, 1997, Mayo Clinic, Rochester, MN.
  - Heart Disease in the Elderly
15. American College of Cardiology, Echo Hawaii, February 1998, Maui, Hawaii.
  - Valvular Stenosis (AS and MS): Doppler Assessment of Severity (Gradient and Valve Area). Impact on Clinical Practice.
  - Exercise Echocardiography for Diagnosis of CAD: Are the Gender Differences Real?
16. American Heart Association, Women & CAD Satellite Broadcast, September 16, 1998, Washington, DC.
  - Treatment of Risk Factors/Coronary Prevention.
17. Barbara Volcker Center for Women and Rheumatic Disease Hospital for Special Surgery, Gender, Biology & Human Disease, March 12-13, 1999, New York City.
  - Sex Differences in the Epidemiology & Outcomes of Heart Disease

18. Emory Center for Outcomes Research, November 5, 1999, Atlanta, GA.
  - Sex differences in the epidemiology of coronary disease
19. American College of Cardiology, The 13<sup>th</sup> Annual State-of-the-Art Echocardiography. February 21-24, 2000, Tucson, AZ.
  - Complex Stenotic Lesions. Combined As + HOCM. Low Output.
  - Risk Stratification Use of Exercise and Pharmacologic Stress Echo. What Is An Ischemic Threshold? Stunned vs. Hibernation?
  - Dobutamine Stress Echo: Preoperative Risk Assessment. How Do I Use and Calculate an Ischemic Threshold?
20. American College of Physicians – American Society of Internal Medicine Annual Meeting. April 13-16, 2000, Philadelphia, PA.
  - How do I interpret stress test results in assessing prognosis?
21. Invited Speaker, Science and Leadership Symposium at Mayo Clinic. Rochester, MN. October 12-16, 2002.
  - The Science of Good Medical Care: The Bench to Your Bedside
22. Invited Speaker, Women and Heart Disease – Putting Prevention into Primary Care. Jacobs Institute of Women’s Health. December 4-5, 2002. Washington, DC.
  - Update on women and heart disease
23. Invited speaker, Mayo Clinic Scottsdale, Grand Rounds, September 12, 2003, Scottsdale, AZ.
  - From Coronary Disease to Heart Failure: The Changing Burden of Heart Disease
24. Invited speaker, Sex –Based Medicine: Focus on Research. November 7, 2003. Mayo Clinic, Rochester, MN
  - Sex disparity in incidence of heart disease: a population study
25. American College of Cardiology, Echo Hawaii, January 27-31, 2003, Big Island, Hawaii.
  - From MI to CHF—Growing Burden of Ischemic Heart Disease
  - Diagnostic Accuracy of Stress Echocardiography in Women: Issues and Solutions
26. Moderator, American Heart Association, 5<sup>th</sup> Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. May 16-17, 2004. Washington DC.
  - Health Disparities: Special Needs, Special Strategies
27. Moderator, American Heart Association Scientific Sessions 2004. November 7-10, 2004. New Orleans, LA.
  - Disparities in Health Care
28. American College of Cardiology, Echo Hawaii, January 24-28, 2005, Big Island, Hawaii.
  - Post MI Risk Stratification: Biomarkers, Echo, Neither, Both?
29. Special Trainee Session, American Heart Association, 6<sup>th</sup> Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke. May 14-16, 2005. Washington, DC.
  - How to Begin a Career in CV Outcomes Research.
  - Fitness, Fatness, Cardiovascular Disease: Is There a Connection?

30. Invited Speaker, 14<sup>th</sup> Annual Nursing Research Conference, Interdisciplinary Research: Opportunities and Challenges. February 21, 2005. Mayo Clinic, Rochester, MN
  - A Matter of Perspectives: A Panel Discussion on Interdisciplinary Research
31. Invited Speaker, Frederick Memorial Hospital, Frederick, MD. May 13, 2005.
  - Rehabilitation after MI: A Contemporary perspective
32. Invited Speaker, Mayo Legacy Meeting, Rochester, MN. September 22-24, 2005.
  - Cardiovascular Diseases
33. Invited Speaker, Mayo Interventional Cardiology Board Review, Rochester, MN. September 30-October 1, 2005.
  - The Epidemiology of CAD
34. American Society of Echocardiology, Echo Hawaii, January 28-February 1, 2008, Big Island, Hawaii.
  - Diastolic Heart Failure in the Community: Another Epidemic!
  - Post MI Risk Stratification 2008: What Will It Be? – Biomarkers, Echo, CMR?
35. American Heart Association 49th Cardiovascular Disease Epidemiology and Prevention Annual Conference 2009. Palm Harbor, FL. March 11-14, 2009.
  - Moderator, The Global Burden of Cardiovascular Disease
  - Prevalence and Global Trends of Cardiovascular Disease
36. Invited Speaker, Psychiatry and Psychology Grand Rounds, Rochester, MN. October 13, 2009.
  - Psychosocial constructs and heart failure outcomes
37. Moderator, American Heart Association Scientific Session 2009. Orlando, FL, November 14-18, 2009.
  - Heart Failure
38. American Heart Association EPI/NPAM 2010. San Francisco, CA, March 3-6, 2010.
  - Cost Impacts Medication Adherence in Community Heart Failure Patients
39. HSR Grand Rounds with Drs. Shannon Dunlay and Nilay Shah, Rochester, MN. April 26, 2010
  - Hospitalizations in Heart Failure: From Clinical Care to Cost
40. Seventeenth Annual “Getting to the Heart of the Matter”, Department of Nursing, Mayo Clinic, Mayo Continuing Nursing Education, Rochester, MN. April 28, 2010
  - Heart Disease Then and Now: What Can We Learn From Our Communities?
41. American Heart Association Quality of Care and Outcomes Research 2010. Washington, DC, May 19-21, 2010
  - Longitudinal Use of Echocardiography after Heart Failure Diagnosis in the Community
  - Prognostic Value of Troponin in Myocardial Infarction in the Community
  - Atrial Fibrillation in Acute Myocardial Infarction: A Community Study
  - Heart Failure and Fractures: A Community Study
  - Health Status and Frailty in Assisted Living and Nursing Home Residents
42. Jackson Heart Study Scientific Conference. Jackson, MS. September 23-24, 2010

- Major Cardiovascular Disease Outcomes: Priorities Today, Priorities Tomorrow for Research and Community Health
- 43. American Heart Association Scientific Sessions 2010, Chicago, IL, November 14, 2010
  - Clinical Significance of Asymptomatic Diastolic Dysfunction
- 44. American Heart Association Scientific Sessions 2012, Los Angeles, CA, March 12-13, 2012
  - Advance Directives in Community Patients with Heart Failure
  - The Incidence of Acute Coronary Syndrome in the Community: 2005-2010
  - Poor Health Status is Associated with Increased Mortality and Direct Medical Costs in Community Heart Failure Patients
  - Patients with Heart Failure have an Increased Risk of Incident Cancer
- 45. Visiting Professor, Cedars Sinai Heart Institute, Los Angeles, CA. March 13, 2012
  - Myocardial Infarction Then and Now: A Community Perspective
- 46. American Heart Association EPI/NPAM 2012, San Diego, CA, March 13-16, 2012.
  - Measuring Frailty in Heart Failure: A Community Perspective
  - Heart Failure Performance Measures: Eligibility and Implementation in the Community
  - End of Life Costs in Community Patients with Heart Failure
  - Thirty Day Readmissions after Myocardial Infarction in the Community
  - Using Unbiased Autopsy Data to Study Temporal Trends in Coronary Artery Disease: A 3-Decade Population-Based Study
- 47. Invited Speaker, Cedars Sinai Heart Institute, Los Angeles, CA. April 27, 2012.
  - Diastolic and Systolic Heart Failure: What is Different in Women?
- 48. Invited Speaker, Mayo Clinic Quality & Systems Engineering & Operations Research Conference, Rochester, MN. May 15, 2012.
  - Practice Innovation and the Science of Health Care Delivery
- 49. Invited Speaker, Mayo School of Continuous Professional Development, Success With Heart Failure: Strategies for the Evaluation and Treatment of Heart Failure in the Clinical Practice, Incline Village, NV, August 12-15, 2012.
  - Epidemiology of Heart Failure: Focus on Hypertension
- 50. American Medical Informatics Association Annual Symposium 2012. Chicago, IL. November 3-7, 2012.
  - Using Electronic Health Records to Identify Heart Failure Cohorts with Differentiation for Preserved and Reduced Ejection Fraction
- 51. Invited Keynote Speaker, Life Science Alley Conference, Minneapolis, MN. December 5, 2012.
  - From Strategy to Execution – Think Big. Start Small. Act Fast
- 52. American Heart Association Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism 2013 Scientific Sessions. New Orleans, LA. March 19-23, 2013.
  - Survival after Acute Coronary Syndrome in the Community
  - Survival after Incident Atrial Fibrillation: A Community-Based Study
  - Contemporary Trends in Heart Failure with Reduced and Preserved Ejection Fraction after Myocardial Infarction: A Community Study

53. Invited Speaker, Mayo School of Continuous Professional Development, Success With Heart Failure: Strategies for the Evaluation and Treatment of Heart Failure in Clinical Practice, Incline Village, NV, August 12-14, 2013.
  - Epidemiology of Heart Failure with Focus on Readmission
54. Participation – NIH BD2K Workshop on Enabling Research Use of Clinical Data, Rockville, MD, September 11-12, 2013.
55. Invited Speaker, The Fifth National Comparative Effectiveness Summit, How CER can Bring Better Care to Patients, Washington, DC, September 16-18, 2013.
56. Invited Speaker, Mayo Clinic Alumni Association 68<sup>th</sup> Meeting, Understanding Value in Health Care Through Data and Analytics, Rochester, MN, September 26-28, 2013.
57. Invited Speaker, American Heart Association Scientific Sessions 2013, Dallas, TX, November 14-20, 2013.
  - The Collaborative Reform Series Event
  - Resuscitation Preferences at the End of Life in Community Patients with Heart Failure
  - Sex Specific Differences in Ventricular Function in Heart Disease
  - Compliance with Chronic Coronary Artery Disease Secondary Prevention Guidelines in the USA
  - Contemporary Trends in Heart Failure with Reduced and Preserved Ejection Fraction after Myocardial Infarction: A Community Study.
58. Invited Speaker, The North American Menopause Society (NAMS) 25<sup>th</sup> Annual Meeting, Washington, DC, October 15-18, 2014.
  - Heart Failure: Issues Unique to Women
59. Invited Speaker, American Heart Association Scientific Sessions, Chicago, IL, November 15-19, 2014.
  - Epidemiology of HFpEF
  - Science Highlights from Epidemiology & Prevention - Nutrition, Physical Activity & Metabolism
  - Diabetes and Heart Failure: The Nexus of 2 Epidemics
  - The PCORI Vision for New Big Data Networks (Moderator)
60. Invited Speaker, Association of University Cardiologists Fifty-Fourth Annual Meeting, Carmel Valley Ranch, Carmel, California, January 21-23, 2015.
  - The Heart Failure Epidemic: A Contemporary Community Perspective
61. Delivery Science Summit 2015.  
Mayo Civic Center, Rochester, MN September 16-18, 2015.
  - Leadership Panel: Trends in Healthcare Delivery
  - Will Big Data Improve the Value of Health Care?
62. Invited Speaker – Visiting Professor, Kaiser Permanente Northern California Division of Research, Oakland, CA, January 6, 2016.
  - Next Gen Phenotyping
63. Endocrinology Grand Rounds 2016.  
Mayo Clinic, Rochester, MN April 13, 2016.
  - Diabetes and Heart Failure: The Nexus of 2 Epidemics

64. PCORnet Cardiovascular Health Collaborative Research Group: Research Team Meeting Rochester, MN, June 14, 2016.
  - Translating the alphabet soup of PCORI, PCORnet, CVH CRG and Health eHeart Alliance
65. Heart Disease in Women: A new Era of Understanding, Recognition, Prevention, Diagnosis and Treatment. October 8-9, 2016, Rochester, MN.
66. Cardiovascular Research in the National Patient-Centered Clinical Research Network (PCORnet) AHA Scientific Sessions, November 14, 2016, New Orleans, LA.
  - EMRs, phenotyping and data linkage
67. Cardiovascular Grand Rounds - Mayo Clinic Arizona, October 11, 2016
  - Heart Failure: How Community Data Inform the Practice

### **International Meetings**

1. European Society of Cardiology, International Symposium. State of the Art in Valve Replacement. May 1990, Istanbul Turkey.
  - State of the Art in Differential Diagnosis and Quantification of Prosthetic Valve Malfunction.
2. European Society of Cardiology, Meeting of the Working Group on Valvular Heart Disease. May 14-15, 1992. Basel, Switzerland.
  - Pitfalls and Shortcomings of the Noninvasive Assessment of Aortic Valve Disease.
3. European Society of Cardiology, Working Group on Valvular Heart Disease. March 30-April 1, 1995. London
  - Left ventricular function in aortic valve disease.
4. III Congreso Argentino De Imagenologia Ultrasonica, II Simposio Internacional De Ecodoppler Cardiaco. June 17-20, 1995. Buenos Aires, Argentina.
  - Aortic stenosis in 1995 - comprehensive echocardiographic Doppler assessment. Is cardiac catheterization ever necessary?
  - Myocardial viability, assessment with stress echo.
5. 11th Congres International D'Echocardiographie De Paris. June 22-24, 1995. Paris, France.
  - L'Echo De Stress Avant Coronagraphie L'Aide Au Diagnostic.
6. University of Vienna, Cardiology '96, Echocardiography In 1996 and Future Directions. April 24-27, 1996. Vienna, Austria.
  - Stress Echocardiography: 1996
7. 4th Annual Innovations in the Treatment of Heart Disease. January 29-31, 1997, Delta Whistler Resort, British Columbia
  - Stress Echo - Where Are We In 1997?
8. XIXth Congress of the European Society of Cardiology. August 24-28, 1997, Stockholm, Sweden
  - Identification of valvular reserve by dobutamine stress echocardiography in aortic stenosis.



9. Como Echo 98. June 22-26, 1998, Milan, Italy
  - Doppler Hemodynamics: Stroke Volume, Gradients, and Valve Areas.
  - How to Perform and Interpret Exercise Echocardiography.
  - Evaluation of Myocardial Viability by Dobutamine and Contrast Echo Comparison with PET and Thallium.
  - Echo/Doppler for Evaluation of Low-output-low-gradient Aortic Stenosis.
10. XX<sup>th</sup> Congress European Society of Cardiology. August 22-26, 1998, Vienna, Austria.
  - Prediction and Course of Progression of Aortic Stenosis.
11. Ieres Journee Provencales d'Echocardiographie. September 11-12, 1998, Marseille, France.
  - Echocardiographie d'effort: pour quels patients et avec quels resultats?
12. American College of Cardiology The Fourth Annual Cardiology at Cancún 1999. February 22-26, 1999, Cancún, Mexico.
  - Stress testing in females: Utilization and outcome.
  - Heart disease mortality: Have we really made an impact?
  - Aortic stenosis and LV dysfunction – Work-up and therapy.
13. Leuven, Belgium. Cardiology Seminar. January 12, 2001
  - Heart Disease Deaths: Are They Really Declining?
14. American College of Cardiology The Seventh Annual Cardiology at Cancún 2002. February 25-March 1, 2002. Cancún, Mexico.
  - From MI to CHF – the Growing Burden of CAD
  - New MI Diagnostic Definitions – A Cause for Concern?
15. X Simposio Internacional de Cardiopatia Isquemica. Bilbao, Spain. May 22-24, 2002.
  - Epidemiological Studies on Ischemic Heart Disease in Spain.
16. American College of Cardiology, Cardiology at Cancún 2004. February 23-27, 2004. Cancún, Mexico.
  - Gender Differences in Cardiac Care: Myth or Reality?
  - From Coronary Disease to CHF: The Changing Burden of CAD
17. The 4<sup>th</sup> Great Wall International Forum on Geriatric Cardiology, Beijing, China. November 3-6, 2005.
  - From Coronary Disease to Heart Failure: The Changing Face of the Heart Disease Epidemic
  - Women and Heart Disease
18. XVIII Journees Europeennes de la Societe Francaise de Cardiologie, Paris, France. January 16-19, 2008.
  - Why perform stress echocardiography?
  - Ischemic mitral regurgitation in practice
19. Echo-Doppler Cardio-Vasculaire Bordeaux, Palais des Congres, Bordeaux. September 24-26, 2008.
  - Insuffisance mitrale dynamique (ischmique)

20. American Society of Echocardiography, 14<sup>th</sup> Annual 2009 Cardiology at Cancun. Advances in Clinical Cardiology and Multi-Modality Imaging. Cancun, Mexico. February 23-27, 2009.
  - Gender Consideration in CAD Screening
  - Contemporary Approaches to Risk Stratification
21. 14<sup>th</sup> Annual Success with Failure. Whistler, British Columbia. August 9-12, 2009.
  - The Evolving Epidemic of Systolic and Diastolic Ventricular Dysfunction and Congestive Heart Failure
  - Alcohol and Heart Failure: What the Epidemiologist Can Teach Us
22. 15<sup>th</sup> Annual Success with Failure. Whistler, British Columbia. August 8-11, 2010.
  - The Evolving Epidemic of Systolic and Diastolic Dysfunction and Congestive Heart Failure
  - Alcohol and Heart Failure: What the Epidemiologist Can Teach Us
23. Great Innovations in Cardiology, 6<sup>th</sup> Joint Meeting with Mayo Clinic. Torino, Italy. October 14-15, 2010
  - Contemporary trends in myocardial infarction incidence and outcomes
  - The heart failure epidemic: myth or reality?
  - Heart disease in Minnesota: lessons from the past and what will we be treating in the next 2 decades
24. 9th Annual Review Course in Clinical Cardiology. Zurich, Switzerland. April 14-16, 2011.
  - Obesity and the cardiovascular risk
  - Acute coronary syndromes: then and now
25. Invited Speaker, Haute Autorite de Sante, Paris, France. December, 15, 2011.
  - How to Implement a Full Cycle of Care? Experience of the Mayo Clinic
26. Invited Speaker, The International Conference on Heart and Brain, Paris, France. March 1-3, 2012.
  - IHD as a Source of Embolism (LV Thrombus, LV Aneurysm): Management
27. Alzheimer Cooperative Valuation in Europe ALCOVE Final Symposium, Paris, France. March 28, 2013.
  - Participant on Discussion Pane
28. Invited Speaker, The First Antwerp-Rochester Cardiology Symposium, Case Studies for the Practicing Cardiologist: An Evidence-based, Real Life Interactive Experience, Antwerp, Belgium, June 14, 2014.
  - Epidemiology of Valvular Heart Disease
29. Invited Lecturer, European Society of Cardiology Congress. ESC Geoffrey Rose Lecture on Population Sciences. Barcelona, Spain, August 31, 2014.
  - Cardiovascular diseases in populations: the challenges of clinical success.
30. Invited Speaker – The Second Antwerp-Rochester Cardiology Symposium Case Studies for the Practicing Cardiologist. University of Antwerp, Antwerp, Belgium, May 30, 2015.
  - Acute coronary syndromes in the community
  - HFpEF: epidemic within an epidemic
31. Mayo Clinic – Karolinska Institutet 21<sup>st</sup> Annual Scientific Research Meeting.

Karolinska Institutet, Stockholm, Sweden, September 10-11, 2015.

- Big Data: Will it Improve the Value of Health Care?

32. The Third Antwerp – Rochester Cardiology Symposium.

Antwerp, Belgium May 28-29, 2016.

- “Coronary disease”: no longer what it used to be
- End of life and use of palliative care

## **RESEARCH GRANTS/AWARDS**

### **Mayo Clinic Awards**

Mayo Foundation Scholarship to pursue a Master’s Degree in Public Health (Epidemiology Major) - September 1995 to September 1996

Mayo Foundation for Research CR20 Award: Sex Differences After Stress Tests: A Population-Based Study. July 1994-October 1, 1997

Mayo Foundation for Research CR Program. Utilization of Health Care Resources After Exercise Stress Testing: Are There Any Sex Differences? August 1997-July 1998

Mayo Foundation for Research CR75 Award: Coronary Disease Morbidity and Mortality in a Population. January 1, 1998 to December 31, 2000

Mayo Foundation for Research CR20 Award: Co-Investigator, Incremental prognostic value of comorbidity, frailty, and health-related quality of life measures on the in-hospital and one-year outcome following percutaneous coronary interventions. 2005-2009

Mayo Foundation for Research. Consultant, Myocardial stress perfusion imaging to stratify long-term outcome of coronary artery revascularization with percutaneous coronary intervention (PCI) or coronary artery bypass grafting (CABG) versus medical therapy. 2010-2012

Other Mayo Funding. Co-Investigator, Innovative measures of quality of care for acute myocardial infarction patients. 2007-2009.

**Extramural Grants and Awards**

| <b>Title</b>  | <b>Direct and total Costs</b>   | <b>Funding period</b> |
|---|---|-----------------------|
| <b>As principal investigator</b>  |   |                       |
| <b>American Heart Association National Center</b> Grant-in-Aid<br>"A Population-Based Study of Treatment Differences Following Exercise Stress Tests Between Men and Women"                       | 106,329   | 1993-1999             |
| <b>American Heart Association National Center</b> AHA #93-013250 "A Population-Based Study of Treatment Differences Following Exercise Stress Tests Between Men and Women"                        | 120,000   | 1993-1996             |
| <b>American Heart Association-Minnesota Affiliate</b><br>Standard Grant-in-Aid "Time Trends in Atherosclerosis at Post Mortem Examination: A Population-Based Study in Olmsted County, Minnesota" | <i>Award activated subsequently relinquished due to scientific overlap<br/>RO1 HL 59205</i> | 1997-1999             |
| <b>National Institutes of Health</b> R01 HL59205<br>"Coronary Disease Morbidity and Mortality in a Population"  | 937,602<br>1,322,579  | 1998-2002             |
|   | 937,602<br>1,322,579  | 2002-2007             |
|   | 1,520,758<br>2,160,198  | 2008-2013             |
| <b>American Heart Association National Center</b> Established Investigator grant AHA 01-40176N<br>"Surveillance of Heart Failure"   | 272,728<br>300,000  | 2001-2004             |
| <b>National Institutes of Health</b> Mid-Career mentoring Award: K24 HL68765<br>"Myocardial Infarction in the Population"   | 444,599<br>480,165  | 2002-2008             |
| <b>Dubai Research Foundation</b> Dubai Funding – Project 3 in:<br>"Prevention and Treatment of Heart Disease: Basic Mechanisms, Novel Diagnostics and Innovative Therapies"                       |   | 2003-2004             |
| <b>National Institutes of Health</b> R01 HL 72435<br>"Heart Failure in the Community"   | 2,220,155<br>3,165,584  | 2003-2007             |
|   | 2,297,999<br>3,496,814  | 2007-2013             |
| <b>D. Abraham Foundation</b> – "Population Sciences Program: From Risk Factors to Heart Failures and From Cell to Population"   |   | 2004                  |
| <b>ClearWay Minnesota</b> RC-2009-0034<br>"Smoke-Free Workplace Laws and the Incidence of Acute Cardiac Events in Olmsted County, Minnesota"<br>Co-PI: Richard Hunt                               | 445,665<br>512,515  | 2010-2013             |
| <b>National Institutes of Health</b> R01HL 59205<br>"Coronary Disease Morbidity and Mortality in a Population"  | 1,416,589<br>2/051,298  | 2008-2014             |
| <b>National Institutes of Health</b> R21AG 45228-1<br>"Multi-morbidity in Heart Failure"  | 275,000<br>437,250  | 2013-2015             |
| <b>National Institutes of Health</b> R01HL 120957-1<br>"Ventricular Remodeling and Heart Failure after Myocardial Infarction: A Community Study"  | 2,497,256<br>3,761,061  | 2013-2018             |
| <b>National Institutes of Health</b> R01HL 120859-1<br>"Heart Failure in the Community: Multimorbidity and Outcomes"  | 2,057,908<br>3,195,541  | 2013-2018             |

|  |                        |           |
|--|------------------------|-----------|
| <b>Patient Centered Outcomes Research Institute</b><br>"The national patient-centered clinical research network:<br>clinical data research networks (CDRN) Phase II"   | 6,250,000<br>8,645,739 | 2015-2018 |
| <b>As Co-investigator</b>  |                        |           |
| <b>Fannie E. Rippel Foundation</b> "A Proposal to Advance the<br>Detection, Prevention and Therapy of Atherosclerotic Heart<br>Disease in the American Public"   |                        | 2000-2001 |
| <b>Agency for Health Care Policy and Research RO1 HS<br/>10239</b> "Primary Care Evaluation of CHD in Men and<br>Women: Timing and Process Leading to CHD Diagnosis"<br>PI: B P. Yawn 10% Effort   | 843,276<br>995,102     | 2000-2002 |
| <b>National Institutes of Health R01 AR46849</b><br>"Heart Disease in Rheumatoid Arthritis"<br>PI: Cynthia Crowson   | 2,225,240<br>3,484,440 | 2000-2017 |
| <b>American Diabetes Association</b> (Grant # 7219).<br>"Trends in CVD risk factors, incidence, and outcomes for<br>persons with and without diabetes 1970-2004: A population-<br>based study"   | 260,383.               | 2002-2004 |
| <b>National Institutes of Health R01 HL 68737</b><br>"Genetic Predictors of Incident Cardiovascular Disease"<br>PI: Sharon Kardia 10% Effort   | 678,863<br>980,955     | 2002-2006 |
| <b>AMGEN #48; 92023003</b><br>"Heart Disease in "Psoriasis"<br>PI: B P. Yawn 10% Effort  |                        | 2006-2009 |
| <b>National Institutes of Health U01 HG004599</b><br>"EMR Phenotypes and Community Engaged Genomic<br>Associations"<br>PI Christopher Chute 10% Effort   | 2,378,943<br>3,594,583 | 2007-2011 |
| <b>National Institute on Aging R03 AG 31347</b><br>"Genetics of Inflammation in Post Myocardial Infarction<br>Heart Failure"<br>PI: Adelaide Olson   | 148,000                | 2008-2011 |
| <b>Johnson and Johnson RIVA-EPI-0809-2</b><br>"Impact of atrial fibrillation onset and antithrombotic<br>prophylaxis treatment strategy on healthcare utilization,<br>recurrent cardiovascular events, stroke, and bleeding in<br>patients with acute coronary syndrome"<br>PI: Alanna Chamberlain | 200,577<br>259,550     | 2011-2013 |
| <b>American Heart Association 11SDG7260039-1</b><br>"The impact of atrial fibrillation on healthcare utilization,<br>morbidity, and mortality"<br>PI: Alanna Chamberlain   | 402,029<br>466,769     | 2011-2015 |
| <b>Agency for Healthcare Research and Quality R01HS<br/>23077-1</b> "Understanding the bidirectional relationship<br>between depression and heart failure"<br>PI: William Bobo   | 251, 572<br>399,999    | 2014-2016 |
| <b>National Institute on Aging R21 AG 049277-01</b><br>"Using electronic medical records to study progression of<br>atrial fibrillation"<br>PI: Suzette Bielinski  | 150,000                | 2015-2016 |

|   |                    |           |
|---|--------------------|-----------|
| <b>National Institutes of Health</b> R01HD 79439-1<br>"Computerized adaptive testing to direct delivery of hospital-based rehabilitation"<br>PI: Andrea Cheville  | 566,698<br>826,027 | 2015-2020 |
| <b>As a Consultant</b>  |                    |           |
| <b>National Institute on Aging</b> R01 AG 21201<br>"Mitochondria and surgical myopreservation in aging"<br>PI: Arshad Jahangir  |                    | 2002-2008 |
| <b>American Diabetes Association</b> (ADA 1-10-CT-34).<br>"The independent contribution of trends in obesity and diabetes to recent slowing of declines in CAD prevalence: A population-based study of non-elderly decedents who died from non-natural causes 1981-2009"<br>PI: Cynthia Leibson | 238,978<br>274,825 | 2010-2011 |
| <b>As a mentor</b>  |                    |           |
| <b>Susannah Daly</b><br><b>American Heart Association-Minnesota Affiliate</b><br>Burchell Scholarship, 1997   | 25,500             | 1997-1998 |
| <b>American Heart Association-National Center</b><br>Student Scholar in Cardiovascular Disease and Stroke, 1997   | 104,500<br>114,950 | 1996-1999 |
| <b>Jens Hellermann</b><br><b>American Heart Association-Northland Affiliate</b><br>Post-doctoral fellowship   | 32,500             | 2001-2002 |
| <b>Francisco Lopez-Jimenez</b><br><b>American College of Cardiology</b>   | 100,000<br>110,000 | 2003-2004 |
| <b>Jeanne Huddleston</b><br><b>American Heart Association-Northland Affiliate</b>   | 100,000<br>110,000 | 2003-2004 |
| <b>Francesca Bursi</b><br><b>American Heart Association-Northland Affiliate</b><br>Post-doctoral fellowship   | 36,500             | 2004-2006 |
| <b>Yariv Gerber</b><br><b>American Heart Association-Northland Affiliate</b><br>Post-doctoral fellowship  | 36,500             | 2005-2007 |
| <b>Shannon Dunlay</b><br><b>American Heart Association-Greater Midwest Affiliate</b><br>Post-doctoral fellowship  | 49,428             | 2007-2009 |
| <b>Amanda Moraska</b><br><b>American Heart Association-Greater MN</b><br>James H. Moller, MD, Heart Medical Scholarship, 2010   | 1,200              | 2010-2011 |
| <b>Shannon Dunlay</b><br><b>National Institutes of HealthK23 award</b><br>Primary mentor  | 630,315<br>680,739 | 2013-2018 |

#### Other awards obtained by mentees

**Falk Foundation** July 1, 2002 - June 30, 2003. On behalf of Maan Jokhadar

**American Heart Association 2005 Scientific Sessions** best poster in population sciences on behalf of Dr. Yariv Gerber

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### Book Chapters

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### Editorials

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