

Scott Mader, MD

Scott Mader, Clinical Director Rehabilitation and Long term Care Division at the Portland VA Medical Center, was the principal investigator for the Hospital at Home Demonstration and Evaluation at that site. The program in Portland continued after the demonstration, with some alterations, including younger patients and also admitting after a brief hospital stay. Dr. Mader is an active clinical geriatrician with patient care responsibilities in primary care, home care, and nursing home. His developed an early interest in home care and had a home care panel of patients under the supervision of Dr. Groth-Junker in Rochester, NY. His other research projects include the study of vascular relaxation with age and orthostatic hypotension in nursing home and rehabilitation units.



He is a native Oregonian who received his medical degree from Case Western Reserve University in Cleveland Ohio. He did his internal medicine training at Strong Memorial Hospital at University of Rochester in NY and his geriatric fellowship training at UCLA/West LA VA/Sepulveda VA Medical Centers. He was on the Geriatric faculty at Case Western Reserve University and the Cleveland VA from 1986-1994. He was recruited to the Portland VA and OHSU in 1995.

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

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|----------------------------|---------------------------------------|
| NAME Scott L. Mader, MD | POSITION TITLE Associate Professor |
| eRA COMMONS USER NAME | |

| EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i> | | | |
|---|----------------------------------|---------|----------------|
| INSTITUTION AND LOCATION | DEGREE <i>(if applicable)</i> | YEAR(s) | FIELD OF STUDY |
| Willamette University | BS | 1977 | Chemistry |
| Case Western Reserve University | MD | 1981 | Medicine |
| Strong Memorial Hospital, Univ. of Rochester | | 1984 | Residency |

A POSITIONS

| | |
|-----------|---|
| 1981-1984 | Internship and Residency, Strong Memorial Hospital/University of Rochester, Rochester, NY |
| 1984-1985 | Clinical Fellow (Geriatrics), UCLA/VA Multicampus Division of Geriatrics, Los Angeles, CA |
| 1985-1986 | Research Fellow (Geriatrics), UCLA/VA Multicampus Division of Geriatrics, Los Angeles, CA |
| 1986-1994 | Staff Physician, University Hospitals of Cleveland, Cleveland, OH |
| 1986-1994 | Staff Physician, Cleveland VA Medical Center, Cleveland, OH |
| 1986-1995 | Assistant Professor of Medicine, Case Western Reserve University, Cleveland, OH |
| 1987-1994 | Associate Director for Research, Division of Geriatric Medicine, Univ. Hospitals of Cleveland |

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|--------------|---|
| 1988-1992 | Director, Geriatric Ambulatory Assessment Clinic, Cleveland VA Medical Center |
| 1992-1994 | Co-director, Research Core, Claude Pepper Center, Case Western Reserve University |
| 1995-present | Staff Physician, Portland VA Medical Center, Portland, OR |
| 1995-present | Clinical Director of Rehabilitation and Long-Term Care Division, Portland VA Medical Center |
| 1996-present | Staff Physician, Oregon Health Sciences University Hospitals, Portland, OR |
| 1996-present | Associate Professor of Medicine, Oregon Health Sciences University, Portland, OR |

HONORS

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|-----------|--|
| 1987-1992 | Clinical Investigator Award, NIH/NIA |
| 1999 | Ad hoc Reviewer, Geriatrics and Rehabilitation Medicine Study Section, NIH |

B SELECTED PEER-REVIEWED PUBLICATIONS

1. Rowe JM, Rasmussen RL, Mader SL, DiMarco PL, Cockett ATK, Marder VJ. Successful thrombolytic therapy in two patients with renal vein thrombosis. *Am J Med* 77: 1111-14, 1984.
2. Mader SL, and Wong M. Orthostatic hypotension due to hypertrophic cardiomyopathy and autonomic failure. *Am J Med* 82:1243-6, 1987.
3. Mader SL, Josephson KR, and Rubenstein LZ. Low prevalence of postural hypotension among community-dwelling elderly. *J Am Med Assoc* 258: 1511-14, 1987.
4. Mader SL, Robbins AS, Rubenstein LZ, Tuck ML, and Scarpace PJ. Effect of age and posture on lymphocyte adenylate cyclase activity. *Clinical Science*: 74: 33 1-4, 1988.
5. Mader SL, Palmer RM, Rubenstein LZ. Effect of number and timing of baseline blood pressure determinations on postural blood pressure response. *J Am Geri Soc*, 37: 444-6, 1989.
6. Mader SL, Davis PB. Effect of age on acute regulation of beta-adrenergic responses in mononuclear leukocytes. *J Gerontology* 44: M1 68-73, 1989.
7. Mader SL. Effects of meals and time of day on postural blood pressure responses in healthy young and elderly subjects. *Arch Int Med* 149: 2757-60, 1989.
8. Cheng B, Horst IA, Mader SL, Kowal J. Diminished adrenal steroidogenic activity in aging rats: new evidence from adrenal cells cultured from young and aged normal and hypoxic animals. *Molec Cell Endo* 73: R7-R 1 2, 1990.
9. Birnkrant DJ, Mader SL, van Lunteren E, Davis PB. Chronic hypoxia increases beta-adrenergic receptor density in the lungs of young and old rats. *Mech Aging Develop* 60: 135-42, 1991.
10. Mader SL, Downing C, van Lunteren E, Davis P. Physiologic responses and cardiac betaadrenergic receptor density after hypoxia in young and aged rats, *J Appl Phys* 71:2094-98, 1991
11. Mader SL. Influence of animal age on the beta-adrenergic system in cultured rat aortic and mesenteric artery smooth muscle cells, *J Gerontol Biological Sciences* 47: B32-6, 1992.
12. Gualberto A, LePage D, Pons G, Mader SL, Park K, Atchison ML, Walsh K. Functional antagonism between the YY1 transcription factor and the serum response factor, *Molecular and Cellular Biology* 12: 4209-4214, 1992.
13. Martin KA, Walsh K, Mader, SL. The mouse creatine kinase paired Ebox element confers muscle-specific expression to a heterologous promoter. *Gene* 142:275-8, 1994.
14. Mader SL, Downing, CL, Amos-Landgraf J, Swobjka P. Age-related changes in G proteins in rat aorta. *J Gerontol (Biological Sciences)* 51: B 111-116, 1996.
15. Mader, SL, Alley PA. Age-related changes in adenylyl cyclase activity in rat aorta membranes. *Mechanisms of Aging and Development*, 101(1-2):111-118, 1998.
16. Chapman, J, Schutzer, WE, Watts, VJ, Mader, SL. Impaired cholera toxin relaxation with age in rat aorta. *J. Gerontol: Bio Sci* 54A:B154-B159, 1999.

17. WE Schutzer, VJ Watts, J Chapman, MC Cumbay, KA Neve, RL Neve, SL Mader. Viral-mediated gene delivery of constitutively activated G α s alters vasoreactivity. *Clin Exper Physiol Pharmacol*; 27: 9-13, 2000.
18. WE Schutzer, H Xue, JF Reed, J-B Roullet, S Anderson and SL Mader. Angiotensin II enhances β -adrenergic receptor-mediated vasorelaxation in aorta from young but not old rats. *Am. J. Physiol.* 279: H2807-H2814, 2000.
19. WE Schutzer, JF Reed, M Bliziotis, and SL Mader. Upregulation of G-protein-linked receptor kinases with advancing age in rat aorta. *In Press. Am. J. Physiol.* 289:R897-R903; 2001
20. R. Komers, JN Lindsley, TT Oyama, WE Schutzer, JF Reed, SL Mader and S Anderson. Renal cyclooxygenase in experimental diabetes: Immunohistochemical and functional correlations. 107:889-898. *J Clin Invest.*

SELECTED REVIEWS, BOOK CHAPTERS, AND ABSTRACTS

1. Mader SL, Davis PB. Effect of aging on β -adrenergic receptors from cultured rat mesenteric artery smooth muscle cells. *Clin Res* 37: 396A, 1989.
2. Birnkrant DJ, Mader SL, van Lunteren E, Davis PB. Chronic hypoxia increases β -adrenergic receptor density in the lungs of young and old rats. *Clin Res* 38: 370A, 1990.
3. Mader S, Downing C, van Lunteren E, Davis P. Physiologic responses and cardiac β -adrenergic receptor density after hypoxia in young and aged rats. *Gerontologist* 30: 112A-113A, 1990.
4. Scarpace PJ, Turner N, Mader SL. β -adrenergic function in aging: Basic mechanisms and clinical applications. *Drugs and Aging* 1: 116-129, 1991.
5. Mader SL, Timiras PS. Age-related physiologic changes. In Reuben DB, Yoshikawa TT, Besdine RW, eds, *Geriatrics Review Syllabus Supplement*, American Geriatrics Society, NY, 7S- 10S, 1993.
6. Timiras PS, Mader SL. Aging of tissues and organs. In Reuben DB, Yoshikawa TT, Besdine RW, eds, *Geriatrics Review Syllabus Supplement*, American Geriatrics Society, NY, 11S- 13 S, 1993.
7. Scarpace PJ, Mader SL, Turner N. Adrenergic Receptors: Implications for falls. In Perry HM, Morely JE, Coe RM, eds, *Aging and Musculoskeletal Disorders*, Springer Pub Co, NY, NY, 1993, pg 147-166.
8. Tan RS, Mader SL. A comparison of intra-individual variability of postural blood pressure changes between young adults and the elderly. *J Am Geri Soc* 43: SA19, 1995.
9. Mader SL. β -adrenergic mediated vasorelaxation. Gordon Conference, Biology of Aging, Ventura, CA., 1/7/97.
10. Mader S, Chapman J, Alley P. Age-related decline in cholera toxin mediated relaxation in rat. *Gerontol* 37: 120, 1997.
11. Mader, SL. The complex problem of falls in older patients. *Gerontologist* 37: 837-8, 1997.
12. Mader SL. Dizziness, Vertigo, and Syncope. In Yoshikawa TT, Cobbs EL, and Brummel-Smith K, eds, *Ambulatory Geriatric Care*, Mosby-Year Book, Inc, St Louis, 2nd ed, 1998
13. WE Schutzer, VJ Watts, J Chapman, R Neve, K Neve, and SL Mader. Viral delivery of a constitutively active G α s to rat aorta enhances vasorelaxation. *Presented at: Gordon Research Conference on Molecular Pharmacology*; February 14-18, 1999, Ventura, CA.
14. WE Schutzer, H Xue, JF Reed, J-B Roullet and SL Mader. Angiotensin II enhances isoproterenol-induced vasorelaxation in aorta from young but not old rats. *In: Experimental Biology – The American Physiological Society*; April 15-18, 2000; San Diego, CA
15. WE Schutzer, H Xue, JF Reed, J-B Roullet, S Anderson and SL Mader. Age-related changes in isoproterenol and angiotensin II action in rat aorta. *In: Proceedings of the Society of Gerontology*; 53rd Meeting; November 17-21, 2000; Washington DC
16. JF Reed, A Edwards, DW Carr, SL Mader and WE Schutzer. Role of A kinase anchoring protein in age-related impaired β -adrenergic receptor signaling. Accepted for presentation at FASEB Annual Meeting for the American Physiological Society; March 31-April 4, 2001, Orlando, FL

(C) RESEARCH SUPPORT

ONGOING

MADER, S.L.

ONGOING

Merit Review MADER (PI) 4/99-4/02 20%

Veterans Affairs \$112,000

Mechanisms of age-impaired vasorelaxation

The goal of this of this project is to determine whether impaired beta-adrenergic receptor-mediated vasorelaxation is caused by age-related changes in the beta-adrenergic receptor-mediated expression and activity of various isoforms of G-protein receptor kinases. It also examines age-related changes in the ability of other, non beta-adrenergic receptor, G-protein coupled receptors to alter G-protein receptor kinase function.

MADER, S.L.

Home Hospital Care (990537) MADER (PI) 5/00-6/03 20%

J.A. Hartford Foundation \$144,900

Project at home – Home hospital national demonstration

This project investigates the outcomes, satisfaction, and cost of acute home care for the elderly with COPD, CHF, CAP, and cellulitis.

COMPLETED

MADER, S.L.

Grant #21306 MADER (PI) 11/98-10/99 10%

Oregon Health Sciences Foundation

Mechanisms of age-impaired vasorelaxation

The goal of this project is to determine whether impaired beta-adrenergic receptor-mediated vasorelaxation is correlated with age-related changes in the activity of G-protein receptor kinases.