

CURRICULUM VITAE

MICHAEL A. deGROOT, M.D.

CURRENT POSITION:

Radiologist (July 2005 - Present)
Diversified Radiology of Colorado, P.C.
938 Bannock St., Ste. 300
Denver, CO 80204
(303) 914-8800
mdegroot@divrad.com

CITIZENSHIP:

United States

EDUCATION:

Medical School

University of California School of Medicine
Irvine, CA
9/89 – 5/91
Field of Study: Basic Science

University of Virginia Medical School
Charlottesville, VA
6/92 – 6/94
Doctor of Medicine, June 1994

Undergraduate

University of Pennsylvania
School of Arts and Sciences
Philadelphia, PA
9/82 – 5/86
Degree: BA

Internship

St. Mary's Medical Center
San Francisco, CA
7/94 – 6/95
Field of Study: Preliminary Medicine

Residency

Stanford University Medical Center
Sanford, CA
7/95 – 6/99
Field of Study: Diagnostic Radiology

Fellowship

Mallinckrodt Institute of Radiology
St. Louis, MS
7/99 – 6/00
Field of Study: Interventional Radiology

CERTIFICATION: Certificate of Added Qualification in Interventional Radiology (2002)
ABR Certified Radiologist (1999)
ACR Written Boards – passed (99% Physics) (1999)
WSMLE Step I, II, and III – Passed (1991-1995)

LICENSURE: Colorado, #38568 (2000 - Present)
Washington, #40664 (2001 – Present)
Pennsylvania, #MD418186 (2001 –Present)
California (Inactive)
Missouri (Inactive)

ORGANIZATIONS: American College of Radiology
California Medical Association
Colorado Medical Society
Colorado Radiologic Society
Denver Medical Society
Society of Interventional Radiology (SIR)

WORK HISTORY: Diversified Radiology of Colorado, P.C.
938 Bannock Street, Suite 300
Denver, CO 80204
Radiologist
July 05 - Present

Pueblo Radiological Group
124 W. Pitkin
Pueblo, CO 81004
719-542-7891
Interventional and General Radiology
PACS developer and manager
May 02 – July 05

Staffcare Medical Staffing Salt Lake City UT
5001 Statesman Drive
Irving, TX 75063
800-221-4971
Interventional Radiology at Southwest Washington Hospital,
Vancouver, WA
General Radiology at Healthsouth Imaging in Colorado
Springs, CO
July 01 – April 02

Colorado Imaging Associates
8380 N. Zuni, Suite 100
Denver, CO 80221
303-427-8000
Interventional and General Radiology
July 00- July 01

**CURRENT HOSPITAL
AFFILIATIONS:**

Avista Hospital
Louisville, Colorado

Exempla Good Samaritan Medical Center
Lafayette, Colorado

Exempla St. Joseph Hospital
Denver, Colorado

North Colorado Medical Center
Greeley, Colorado

North Suburban Medical Center
Thornton, Colorado

Parker Adventist Hospital
Denver, Colorado

Platte Valley Medical Center
Brighton, Colorado

Presbyterian St. Luke's Medical Center
Denver, Colorado

Rose Medical Center
Denver, Colorado

Spalding Rehabilitation Hospital
Aurora, Colorado

Sterling Regional MedCenter
Sterling, Colorado

Vail Valley Medical Center
Vail, Colorado

**PREVIOUS HOSPITAL
AFFILIATIONS:**

St. Mary Corwin Medical Center
Pueblo, CO

Arkansas Valley Regional Medical Center
La Junta, CO

Medical Centers of Aurora
Aurora, Colorado

University of Washington Medical Center
Seattle, WA

AWARDS:

Dr. David Carroll Intern of the Year Award (1995)
Graham Clark Academic Scholarship (1993)
Donegan Research Scholarship (1993)
Stanley Sarnoff cardiovascular research Fellow (1991-1992)
March of Dimes Research Scholarship (1990)
Carl H. Fee Scholarship (1990)

TEACHING EXPERIENCE:

Surgery Laboratory Student Instructor, University of Virginia (1993)
Basic Science Tutor in Physiology, University of Virginia (1993)
Tutor of USMLE Step 1 in Anatomy and Physiology (1991)

BASIC SCIENCE RESEARCH:

Sarnoff Cardiovascular Research Fellow (1991-1992)
Study of lactate and pyruvate metabolism in *in vivo* canine myocardium using ^{13}C NMR. Independently developed model for extended time observation of isolated mitochondrial metabolism using NMR spectroscopy. Investigated regulation of NADH redox state on isolated mitochondrial metabolism under conditions of fixed concentrations of ADP. Dr. Robert Balaban, National Institutes of Health, Bethesda, MD

^{31}P NMR Investigation of Skeletal and Cardiac Muscle (1987-1989)

Independent investigation of *in vivo* human skeletal muscle fatigue utilizing ^{31}P NMR spectroscopy. Developed investigational protocol, experimental apparatus, and software for rapid processing of multiple muscle spectra. Performed surgery, NMR measurements and data analysis for *in vivo* animal models of partial coronary occlusion with Dr. Saul Schaefer, Department of Cardiology. Completed several database applications for clinical research projects. Drs. Barry Massie and Mike Weiner, VA Medical Center, UCSF Dept. of Medicine, San Francisco, CA

^{31}P NMR Data Analyst (1986-1987)

Worked with Dr. Chance designing model on inorganic phosphate effect on fatigue. Biochemical investigation of cerebral metabolic function during hypoxia and ischemia in animal model using NMR spectra. Emeritus Prof. Dr. Britton Chance, University of Pennsylvania Medical School, Biochemistry Dept., Philadelphia, PA

PUBLICATIONS:

1. Razavi M., **deGroot M.**, Olcott, C. et al: Internal Iliac Artery Embolization in the Stent-Graft Treatment of Aortoiliac Aneurysms: Analysis of Outcomes and Complications. *J. Vasc Interv Radiol* 11: 561-566, 2000.
2. **deGroot M.**, Sze D., Razavi M.: Peripheral aneurysm stent-grafts. *Stent-Grafts*. Dolmatch and Blum eds. Thieme, New York. 1999.

3. **deGroot M.**, Massie B., Boska M., Gober J., Miller R.G., Weiner M.W.: Dissociation of [H⁺] from fatigue in human muscle detected by high time resolution ³¹P NMR. *Muscle & Nerve*. 16: 91-98, 1993.
4. Laughlin M, Taylor J., **deGroot M.**, Chesnick S., Balaban R.: Non glucose substrates increase glycogen synthesis in *in vivo* dog heart. *Am. J. Physiol.* Jul, 267 (1 Pt. 2): H219-23 1994.
5. Laughlin M., Taylor J., Chesnick S., **deGroot M.**, Balaban R.: Pyruvate and lactate metabolism in the *in vivo* dog heart. *Am. J. Physiol.* June 264 (6 Pt. 2): H2068-79 1993.
6. Weiner M, baker B., Carson P., Schaefer S., Schwartz G., **deGroot M.**, Massie B., Miller R.G.: ³¹P MRS Studies of Skeletal Muscle and Heart: Evidence of Metabolic Regulation by Inorganic Phosphate. *Noninvasive Techniques in Biology and Medicine*. Freeman, S.E., Fukushima E. and Greene, E.R. Eds. San Francisco Press, San Francisco 1990
7. Goober J., Schaefer S., Camacho S.A, **deGroot M.**, Obregon R., Botnivick, E.H., Weiner, M.W., Massie, B.: Epicardial and Endocardial Localized ³¹P Magnetic Resonance Spectroscopy: Evidence for Metabolic heterogeneity during Regional Ischemia. *Magnetic Resonance in Medicine*. 13:204-215, 1990
8. Schaefer S., Camacho S.A., Gober J., Obregon R., **deGroot M.**, Botnivick E.H., Massie B., Weiner M.W.: Response of myocardial metabolites to graded regional ischemia. ³¹P NMR spectroscopy of porcine myocardium *in vivo*. *Circulation Research* 64:968, 1989.

PRESENTATIONS:

1. **deGroot M.**, Sze D., Kee S., Semba C., Dake M., Razavi M.: Complication of internal iliac artery embolization in aortoiliac and iliac stent graft therapy. Society of Cardiovascular/Interventional Radiology (SCVIR) Annual Meeting. Orlando, FL, 1998.
2. **deGroot M.**, Laughlin M., Chesnick S., Balaban R.: Poster and Presentation. ³¹C NMR spectroscopy of isolated rat mitochondria: evidence of Krebs cycle metabolite flux. Sarnoff Cardiovascular Research Foundation Annual Meeting. Bethesda, MD, 1992.
3. **deGroot M.**, Massie B., Boska M., Gober J., Miller R.G., Weiner M.W., Poster and Presentation. Relationship of [H²PO³⁻] to fatigue in human muscle detected by high time resolution ³¹P NMR. Society of Magnetic Resonance

in Medicine Annual Meeting. Amsterdam, The Netherlands, 1989.