

CURRICULUM VITAE (as of January 22, 2024)

Full name Devendra Kumar Agrawal

Present Academic Rank *Professor and Director*

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Western University of Health Sciences
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Citizenship United States of America

EDUCATION

2003 - 2005 **M.S. (Information Technology and Management)**
Creighton University, Omaha, NE
College of Business

2002 -2004 **M.B.A. (Business Administration)**
Creighton University, Omaha, NE
College of Business

1984 - 1985 **Postdoctoral Fellow (Pharmacology)**
University of British Columbia
Faculty of Pharmaceutical Sciences
Vancouver, Canada
Mentor: John H. McNeill, Ph.D.

1982 - 1984 **Postdoctoral Fellow (Physiology and Pharmacology)**
McMaster University
Faculty of Health Sciences
Hamilton, Ontario, Canada
Mentor: Edwin E. Daniel, Ph.D.

1980 - 1984 **Ph. D. (Medical Sciences)**
McMaster University
Department of Neurosciences
Hamilton, Ontario, Canada
Mentor/Major Advisor: Edwin E. Daniel, Ph.D.

1973 - 1978 **Ph.D. (Biochemistry)**
King George's Medical College
Lucknow University
Postgraduate Department of Pathology & Bacteriology

Lucknow, U.P., India
Mentors/Major Advisors: Professor Abhaya Kumar, D. Phil. and
Professor R. M. L. Mehrotra, MBBS, MD, FRCPath

1971 - 1973 **Master of Science (Chemistry) with specialization in
Organic Chemistry**

Lucknow University
Department of Chemistry
Lucknow, U.P., India

1969 - 1971 **B. Sc. (Major in Biology and Chemistry)**

Lucknow Christian College
Lucknow University
Lucknow, U.P., India

APPOINTMENTS

- 07/2019 - Present Professor and Director, Department of Translational Research, College of Osteopathic Medicine of the Pacific, Western University of Health Sciences, Pomona, California, USA
- 07/2019 - 02/2022 Senior Vice President for Research & Biotechnology, Western University of Health Sciences, Pomona, California, USA
- 01/2016 - 06/2019 Professor and Chairman, Department of Clinical & Translational Science, Creighton University School of Medicine, Omaha, NE
- 09/2009 - 06/2019 Director, Graduate Programs (MS and PhD)
Clinical & Translational Science
Creighton University Graduate School, Omaha, NE
- 07/2012 - 06/2017 Senior Associate Dean for Clinical & Translational Research
Creighton University School of Medicine, Omaha, NE
- 04/2009 - 06/2012 Associate Dean for Translational Research
Creighton University School of Medicine, Omaha, NE
- 04/2009 - 12/2015 Director
Center for Clinical and Translational Science
Creighton University School of Medicine, Omaha, NE
- 07/2004 - 12/2016 Professor
Department of Biomedical Sciences (primary)
Creighton University School of Medicine, Omaha, NE
- 07/2004 - 06/2019 Professor
Department of Internal Medicine (secondary)
Department of Medical Microbiology & Immunology (secondary)

Creighton University School of Medicine, Omaha, NE

- 01/1998 - 06/2004 Professor
Department of Biomedical Sciences (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1997 - 06/2004 Professor
Department of Internal Medicine (primary)
Department of Medical Microbiology & Immunology (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 - 06/1997 Associate Professor (**Tenure granted effective July 1990**)
Department of Internal Medicine (primary)
Creighton University School of Medicine, Omaha, NE
- 07/1995 - 06/1997 Associate Professor
Department of Medical Microbiology & Immunology (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 - 06/1995 Associate Professor
Department of Pharmacology (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 - 06/1995 Associate Professor
Department of Biomedical Sciences (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 - 06/2002 Director, Multidisciplinary Cardiovascular Research Group (formerly
Creighton Vascular Center), Creighton University Medical
Center, Omaha, NE
- 10/1985 - 06/1990 Assistant Professor
Department of Internal Medicine (primary)
Department of Pharmacology (secondary)
Creighton University School of Medicine, Omaha, NE
- 10/1985 - 06/2003 Director of Pre-Clinical Research, Center for Allergy, Asthma and
Immunology, Creighton University School of Medicine, Omaha, NE
- 09/1980 - 06/1982 Teaching Assistant (a resource person to M.D. students in
Pharmacology), Faculty of Health Sciences
McMaster University Medical Center
Hamilton, Ontario, Canada
Supervisor: Edwin E. Daniel, Ph.D.
- 10/1978 - 08/1980 Clinical Biochemist
King George's Medical College (Now King George's Medical
University)

Gandhi Memorial & Associated Hospitals
Lucknow, U.P., India

08/1973 - 08/1978 Research Assistant
Postgraduate Department of Pathology and Bacteriology
King George's Medical College, Lucknow, U.P. India
Supervisors: Professor Abhaya Kumar and Professor RML Mehrotra

HONORS and FELLOWSHIPS

02/2016 **Alpha Omega Alpha Honor Medical Society**

Since 09/2014 Fellow, International Academy of Cardiovascular Sciences

Since 04/2013 Fellow, American Physiological Society

07/2009-06/2019 The Peekie Nash Carpenter Endowed Chair in Medicine

Since 10/2001 Fellow, American Heart Association

Since 10/2001 Fellow, Council of Arteriosclerosis, Thrombosis and Vascular Biology

Since 03/2001 Fellow, American Academy of Allergy, Asthma, and Immunology

AWARDS, PRIZES, and RECOGNITIONS

10/2023 Selected for the **Jan Slezak Award for Excellence in Cardiovascular Sciences**, to be awarded at the 9th Meeting of International Academy of Cardiovascular Sciences - European Section, October 4-7, 2023, in **Timișoara, Romania**.

09/2023 **USF Health Morsani College of Medicine, Tampa, FL - Special Recognition** for unwavering mentorship to the scientific committee of the IACS-NAS annual meeting 2023.

05/2017 **Robert F. Kennedy Memorial Award for Teaching Achievement** - the Highest Teaching honor at Creighton University; Presented at the annual commencement ceremony on 13th May 2017

03/2017 **Special Recognition Award for Outstanding contribution as a Teaching Professor, Researcher, and Mentor** by Nebraska and Iowa Physicians of India (NIPI); 11th March 2017

10/2016 **Professor Ricardo Gelpi Award for Excellence in Cardiovascular Sciences**, presented at the annual meeting of the International Academy of Cardiovascular Sciences -South America section, Belo Horizonte, Brazil, 21-23 October 2016.

- 10/2015 **Professor Bohuslav Ostadal Award for Excellence in Cardiovascular Sciences**, presented at the annual meeting of the International Academy of Cardiovascular Sciences –European section, Belgrade, Serbia, 8-10 October 2015.
- 09/2015 **Distinguished Leadership Award**, International Academy of Cardiovascular Sciences, Winnipeg, Canada; 12 September 2015
- 05/2015 **Distinguished Service Award**, School of Medicine, Creighton University
- 03/2015 **Harpur S. Buttar Oration Award in Cardiovascular Sciences**, International Academy of Cardiovascular Sciences – India section; March 10, 2015, New Delhi, India
- 02/2015 **Keynote speaker** at the 46th Midwest Student Biomedical Research Forum, Omaha, NE; 28 February 2015
- 06/2013 **Best poster presentation award** at the 81st annual meeting of the European Atherosclerosis Society, Lyon, France 2-6 June 2013
- 01/2013 **Award of Excellence by the India Association of Nebraska** in appreciation of outstanding service and contribution to Nebraska Community at large
- 02/2012 **Creighton University Distinguished Faculty Service Award** presented by the President of Creighton University
- 05/2011 **Distinguished Professor Award by the Faculty of School of Medicine**, Creighton University
- 02/2011 **University Research Award**, Creighton University, presented by the President of Creighton University
- 05/2010 **Outstanding Mentor Award by the Faculty**, Creighton University School of Medicine
- 2010-2019 **The Peekie Nash Carpenter Endowed Chair in Medicine**, Creighton University
- 04/2008 **Distinguished Faculty Award**, presented by the Health Sciences Multicultural & Community Affairs (HS-MACA), Creighton University Medical Center
- 04/2006 One of the three nominees for the **Golden Apple Award for Excellence in Teaching** by Medical Students of Creighton University School of Medicine, Omaha, NE
- 10/2001 **Recognition** by the Midwest Chapter of American Association of Physicians of India for the contribution as a **teaching professor, researcher, and mentor**
- 10/2000 **“Man of the Year” Award**, presented by the India Association of Nebraska, USA for the outstanding services to the community at-large in the State of Nebraska

- 05/1998 Creighton University "Distinguished Research Career Award" presented by the Faculty, Creighton University School of Medicine.
- 03/1994 Premier Allergy Research Award, American Academy of Allergy and Immunology, Milwaukee, WI.
- 05/1990 School of Medicine "Young Investigator Award" presented by the Faculty, Creighton University School of Medicine.
- 10/1987 Morris F. Miller Faculty Development Award granted by the Health Future Foundation.
- 10/1986 James M. Keck Faculty Development Award granted by the Health Future Foundation.
- 10/1986 American Diabetes Association Travel Award to attend the University of Virginia/American Diabetes Association International conference on research and therapeutic issues in diabetes in Charlottesville, Virginia, USA.
- 10/1983 Dr. Robert F. Furchgott Travel Award to attend and present a paper at the American Society for Pharmacology and Experimental Therapeutics meeting in Indianapolis, USA.

GRANT SUPPORT

ACTIVE SUPPORT:

1. R01 HL144125-01 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Novel Approach to Stabilize Atherosclerotic Plaque in Carotid Artery
 Dates of entire project: 06/01/2018- 04/30/2024
 Total amount Awarded: \$2,863,992

2. 1R01 HL147662-01 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Novel Molecular Target to Prevent Maturation Failure of Arteriovenous Fistula
 Dates of entire project: 08/01/2019- 07/31/2024
 Total amount Awarded: \$2,819,916

GRANTS SUBMITTED/PENDING REVIEW

1. 1R25 AI179582-01 (NIH-NIAID)
Principal Investigator: Devendra K. Agrawal
 Title: Research Education Program to Promote Diversity in Immunologic and Allergic Diseases
 Dates of entire project: 12/01/2023- 11/30/2028

Requested Total amount: \$1,895,400

2. **1R25 AI83315-01 (NIH-NIAID)**

Principal Investigator: Devendra K. Agrawal

Title: Research Education Program for Medical Students in Allergic and Immunologic Diseases

Dates of entire project: 06/01/2024- 05/31/2029

Requested Total amount: \$1,895,400

3. **1R15 HL (NIH-NHLBI)**

Principal Investigator: Finosh G. Thankam

Co-Investigator: Devendra K. Agrawal

Title: Regenerative Left Ventricular Stromal Cells for the Accelerated Healing of the Infarct Zone

Dates of entire project: 04/01/2024- 03/31/2027

Requested Total amount: \$428,928

4. **Department of Defense Application submitted on May 31, 2023**

Principal Investigator: Vikrant Rai

Co-Investigator: Devendra K. Agrawal

Title: Targeting the Novel Molecular Targets to Attenuate Plaque Vulnerability in Carotid Artery

Dates of entire project: 10/01/2024- 09/30/2028

Requested Total amount: \$2,249,593

PAST FUNDING

1. R01 HL128063-01 (NIH-NHLBI)

Principal Investigator: Devendra K. Agrawal

Title: Gene and Stem Cell Therapy in Coronary Artery Bypass Graft

Dates and total award of entire project: 03/13/2015- 02/28/2020 \$2,903,260

2. R01HL144125-01S1 (NIH-NHLBI)- Diversity Supplement (*a Graduate Research Supplement to support Mr. Kouassi Tata Kouassi, a PhD student*)

Principal Investigator: Devendra K. Agrawal

Title: Novel Approach to stabilize Atherosclerotic Plaque in Carotid Artery

Dates and total award of entire project: 12/26/2018- 06/30/2019 \$138,308

3. Dialysis Clinic Inc.

Principal Investigator: Devendra K. Agrawal

Title: Gene Therapy to Induce Maturity of Arteriovenous Fistula in Swine Model

Dates of entire project: 07/01/2018- 06/30/2019; Total Award: \$249,300

4. State of Nebraska, Department of Health and Human Services

Principal Investigator: Devendra K. Agrawal

Title: Collagen Phenotype and Inflammation in Shoulder Tendon Tissue in Current Smokers

Dates of entire project: 07/01/2018- 06/30/2019; Total Award: \$50,000

5. **Principal Investigator: Devendra K. Agrawal**

Title: Epicardial Adipose Tissue, Obesity, and Inflammation in Atherosclerosis

Dates and total award of entire project: 07/23/2013- 05/30/2018 \$3,516,675

6. R01HL116042 (NIH-NHLBI)

- Principal Investigator: Devendra K. Agrawal**
 Title: Vitamin D and Immunomodulation in Coronary Artery Disease
 Dates and Total award of entire project: 07/16/2012- 04/30/2018 **\$3,121,285**
7. R01 HL112597 (NIH-NHLBI);
Principal Investigator: Devendra K. Agrawal
 Title: "Mesenchymal Stem Cells in the Prevention of Thrombosis and Neointimal Hyperplasia"
 Dates and Total award for entire project: 12/01/2011 - 11/30/2017 **\$3,295,563**
8. R01HL104516 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Gene Therapy with SOCS3 in Intimal Hyperplasia and In-stent Restenosis
 Dates and total award of entire project: 04/01/2011 - 02/28/2017 **\$2,577,718**
9. ICW Technology, Omaha, NE, USA
Principal Investigator: Devendra K. Agrawal
 Title: "Magnesium binding modifiers in the therapy of hypertension and type II diabetes mellitus"
 Dates and Total award for entire project: 01/15/2014 - 02/28/2017 **\$78,400**
10. 3R01 HL112597-01S1 (NIH-NHLBI Diversity Supplement)
Principal Investigator: Devendra K. Agrawal; (*Postdoctoral Fellow Supplement to support Kokouvi Paul Djossou, MD*);
 Title: "Mesenchymal Stem Cells in the Prevention of Thrombosis and Neointimal Hyperplasia"
 Dates and Total award for entire project: 04/06/2013 - 11/30/2016 **\$298,947**
11. 3R01 HL112597-01S1 (NIH-NHLBI Diversity Supplement)
Principal Investigator: Devendra K. Agrawal (*a Graduate Research Supplement to support Mr. Yovani Llamas, a PhD student*);
 Title: "Mesenchymal Stem Cells in the Prevention of Thrombosis and Neointimal Hyperplasia"
 Dates and Total award for entire project: 2/06/2012 - 11/30/2016 **\$223,132**
12. 3R01 HL120659-01S1 (NIH-NHLBI Diversity Supplement)
Principal Investigator: Devendra K. Agrawal
 (*Graduate Student Supplement to support Kouassi Tata Kouassi, MD*)
 Title: "Epicardial Adipose Tissue, Obesity and Inflammation in Atherosclerosis"
 Dates and Total award for entire project: 01/01/2014 - 12/31/2016 **\$113,472**
13. 3R01HL116042-S1 (Supplement) NIH-Office of Dietary Supplement-NIH Director's office
Principal Investigator: Devendra K. Agrawal
 Title: Vitamin D and Immunomodulation in Coronary Artery Disease
 Dates and Total award of entire project: 06/01/2014- 04/30/2016 **\$140,000**
14. 2R01HL073349-09 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Apoptosis of Smooth Muscle cells in Carotid Plaques
 Dates and total award of the entire project: 01/01/2010 - 11/30/2015 **\$1,300,500**
15. 1R01HL090580 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Smooth Muscle Cell Proliferation in Human Coronary Artery Bypass Conduits
 Dates and total cost of the entire project: 01/01/2009 - 12/31/2014 **\$1,445,000**
16. 1R01AI075315 (NIH-NIAID)
Principal Investigator: Devendra K. Agrawal