

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
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NAME DiBona, Gerald Frederic		POSITION TITLE Professor Emeritus, Dept Internal Medicine and Molecular Physiology & Biophysics, Univ. Iowa	
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
Harvard University, Cambridge, MA	AB	1960	Mathematics
Tufts University School of Medicine, Boston, MA	MD cum laude	1964	Medicine
University of Göteborg, Göteborg, Sweden	MD hc	1993	Medicine

A. Positions and Honors**Positions and Employment**

- 1964-1967 Internal Medicine Residency, Hospital of the University of Pennsylvania, Philadelphia, PA
 1967-1969 Nephrology Fellowship, Peter Bent Brigham Hospital, Harvard Medical School, Boston, MA
 1969-1972 Assistant Professor of Medicine, Univ. Iowa College of Medicine, Iowa City, IA
 1972-1975 Associate Professor of Medicine, Univ. Iowa College of Medicine, Iowa City, IA
 1975-2004 Professor of Medicine, Univ. Iowa College of Medicine, Iowa City, IA
 1977-2001 Vice Chairman, Dept. Medicine, Univ. Iowa College of Medicine, Iowa City, IA
 1977-2001 Chief, Medical Service, VAMC, Iowa City, Iowa
 1997-2004 Professor of Physiology & Biophysics, Univ. Iowa College of Medicine, Iowa City, IA
 2004- Professor Emeritus, Dept. Internal Medicine and Molecular Physiology & Biophysics, Univ. Iowa College of Medicine, Iowa City, IA
 1998-2012 Foreign Adjunct Professor, Karolinska Institute, Stockholm, Sweden
 1998-2013 Visiting Guest Professor, Panum Institute, Univ. Copenhagen, Copenhagen, Denmark
 2012- Guest/Visiting Professor in Renal Physiology, Göteborgs Universitet, Göteborg, Sweden

Other Experiences and Professional Memberships

- 1978-1979 President, American Federation for Clinical Research
 1980-1983 Veterans Administration Merit Review Board, Nephrology
 1986-1990 NIH, Cardiovascular and Renal Study Section, 1986-90; Chairman, 1988-90
 1993 Editor-in-Chief, *Hypertension* (Associate Editor, 1989-1992; Consulting Editor, 1994-present)
 2000-2001 President, American Physiological Society
 Member: American Physiological Society, American Society for Clinical Investigation, Association of American Physicians, AHA Council on Hypertension

Honors

- 1988 Lewis K. Dahl Memorial Lecturer, Council for High Blood Pressure Research, American Heart Association
 1993 Honorary Doctor of Medicine, University of Göteborg, Göteborg, Sweden
 1994 International Research Award, International Society of Hypertension
 1995 William S. Middleton Award for Outstanding Achievement in Biomedical or Behavioral Research (Veterans Administration)
 1997-1999 Nobel Foundation Fellowship, Nobel Foundation, Stockholm, Sweden
 1998 University of Iowa Regents Award for Faculty Excellence
 1998-2012 Foreign Adjunct Professor, Karolinska Institute, Stockholm, Sweden

- 2000 Ernest H. Starling Distinguished Lectureship, Water & Electrolyte Homeostasis Section, American Physiological Society
- 2000 Distinguished Achievement Award, Midwest Salt & Water Club of the Central Society for Clinical Research
- 2000 Utländska Ledamöter, Kungliga Vetenskaps- och Vitterhets-Samhället i Göteborg (Foreign Member, The Royal Society of Arts and Sciences in Göteborg, Göteborg, Sweden)
- 2001 Novartis Award for Hypertension Research, Council for High Blood Pressure Research, American Heart Association.
- 2005 Walter B. Cannon Memorial Award Lecture, American Physiological Society
- 2008 Robert W. Berliner Award for Excellence in Renal Physiology, American Physiological Society
- 2009 Distinguished Achievement Award, Dept. Internal Medicine, Univ. Iowa College of Medicine
- 2012- Guest Professor in Renal Physiology, Göteborgs Universitet, Göteborg, Sweden
- 2014 Ray G. Daggs Award, American Physiological Society
- 2021 Establishment of the Gerald F. DiBona Award for Academics in the Service of Iowa City Veterans Administration Medical Center Patients

Selected Peer-Reviewed Publications (in chronological order) – out of 300

- DiBona, G.F. and Kopp, U.C.: The Neural Control of Renal Function. *Physiol. Rev.* 77:75-197, 1997.
- Holtbäck, U., Brismar, H., DiBona, G.F., Fu, M., Greengard, P. and Aperia, A.: Receptor Recruitment: A Mechanism for Interactions Between G protein-coupled receptors. *Proc. Natl. Acad. Sci.* 96:7271-7275, 1999.
- DiBona, G.F. and Jones, S.Y.: Dynamic Analysis of Renal Nerve Activity Responses to Baroreceptor Denervation in Hypertensive Rats. *Hypertension* 37:1153-1163, 2001.
- DiBona, G.F. and Jones, S.Y.: The Effect of Dietary Sodium Intake on the Responses to Bicuculline in the Paraventricular Nucleus of the Rat. *Hypertension* 38:192-197, 2001.
- DiBona, G.F. and Sawin, L.L.: Effect of Renal Nerve Stimulation on Responsiveness of the Rat Renal Vasculature. *Am. J. Physiol.* 283:F1056-F1065, 2002.
- DiBona, G.F. and Sawin, L.L.: Effect of Arterial Baroreceptor Denervation on Sodium Balance. *Hypertension* 40:547-551, 2002.
- DiBona, G.F.: Neural Control of the Kidney: Past, Present and Future. *Hypertension* 41:621-624, 2003.
- Chu, Y., Iida, S., Lund, D.D., Weiss, R.M., DiBona, G.F., Watanabe, Y., Faraci, F.M. and Heistad, D.D.: Gene Transfer of Extracellular Superoxide Dismutase Reduces Arterial Pressure in Spontaneously Hypertensive Rats: Role of Heparin Binding Domain. *Circ. Res.* 92:461-468, 2003.
- DiBona, G.F. and Sawin, L.L.: Frequency Response of the Renal Vasculature in Congestive Heart Failure. *Circulation* 107:2159-2164, 2003.
- DiBona, G.F. and Jones, S.Y.: Endogenous Angiotensin II Affects Responses to Stimulation of Baroreceptor Afferent Nerves. *J. Hypertension* 21:1-8, 2003.
- DiBona, G.F. and Sawin, L.L.: Losartan Corrects Abnormal Frequency Response of Renal Vasculature in Congestive Heart Failure. *Am. J. Physiol.* 285:H1857-H1853, 2003.
- DiBona, G.F.: The Sympathetic Nervous System and Hypertension: Recent Developments. *Hypertension* 43:147-150, 2004.
- DiBona, G.F. and Sawin, L.L.: Effect of Renal Denervation on Dynamic Autoregulation of Renal Blood Flow. *Am. J. Physiol.* 286: F1209-F1218, 2004.
- DiBona, G.F. and Sawin, L.L.: Effect of Endogenous Angiotensin II on the Frequency Response of the Renal Vasculature. *Am. J. Physiol.* 287: F1171-F1178, 2004.
- DiBona, G.F.: Dynamic Analysis of Patterns of Renal Sympathetic Nerve Activity: Implications for Renal Function. *Exp. Physiol.* 90:159-161, 2005.
- DiBona, G.F.: Physiology in Perspective -The Wisdom of the Body: Neural Control of the Kidney (2005 Walter B. Cannon Memorial Award Lecture). *Am. J. Physiol.* 289: R633-R641, 2005.
- Bell, T.D., DiBona, G.F., Wang, Y., Brands, M.W. Mechanisms for renal blood flow control early in diabetes as revealed by chronic flow measurement and transfer function analysis

- J. Am. Soc. Nephrol.17:2184-2192, 2006.
- Scheetz, T.E., Kim, K-Y A., Swiderski, R.E., Philp, A.R., Braun, T.A., Knudtson, K.L., Dorrance, A.M., DiBona, G.F., Huang, J., Casavant, T.L., Sheffield, V.C., and Stone, E.M.: Regulation of gene expression in the mammalian eye and its relevance to eye disease. Proc. Nat. Acad. Sci. 103:14429-14434, 2006.
- Bell, T.D., DiBona, G.F., Biemiller, R., and Brands, M.W. Continuously-Measured Renal Blood Flow Does Not Increase in Diabetes if Nitric Oxide Synthesis is Blocked. Am. J. Physiol. 295:F1449-56, 2008.
- Kopp, U.C., Jones, S.Y., and DiBona, G.F. Afferent Renal Denervation Impairs Baroreflex Control of Efferent Renal Sympathetic Nerve Activity. Am. J. Physiol. 295:R1882-R1890, 2008.
- DiBona, G.F. and Esler, M. Translational Medicine: The Antihypertensive Effect of Renal Denervation. Am. J. Physiol. 298:R245-R253, 2010.
- Nitescu, N, DiBona, G.F., Grimberg, E., and Guron, G Angiotensin II Type 1 Receptor Antagonism Attenuates Abnormalities in Dynamic Renal Blood Flow Autoregulation in Rats with Endotoxin-Induced Acute Kidney Injury. Kidney & Blood Pressure Research 33:200-208, 2010.
- Saeed, A., DiBona, G.F., Marcussen, N., and Guron, G. High NaCl Intake Impairs Dynamic Autoregulation of Renal Blood Flow in Angiotensin II-Infused Rats. Am. J. Physiol. 299:R1142-R1149, 2010.
- Johns, E.J. Kopp, U.C., and DiBona, G.F. Neural Control of Renal Function. Compr. Physiol. 1:737-767, 2011.
- Pihl L, Persson P, Fasching A, Hansell P, DiBona GF and Palm F. Insulin Induces the Correlation Between Renal Blood Flow and Glomerular Filtration Rate in Diabetes – Implications for Mechanisms Causing Hyperfiltration. Am J Physiol 303:R39-R47, 2012.
- Saeed A, DiBona GF, Guron G. Effects of Endothelin Receptor Antagonists on Renal Hemodynamics in Angiotensin II-infused Rats on High NaCl Intake. Kidney and Blood Pressure Research. 36: 258-267, 2012.
- DiBona, G.F. Recent Advances in Hypertension: Sympathetic Nervous System and Hypertension. Hypertension 61:556-560, 2013.
- Stuffer GA, DiBona GF, Patel A, Kaul P, Hinderliter AL. Catheter-based Renal Denervation in the Treatment of Resistant Hypertension. J Mol Cell Cardiol. 62:18-23, 2013.
- DiBona GF. Interaction of Stress and Dietary NaCl Intake in Hypertension: Renal Neural Mechanisms. Comp Physiol 3:1741-1748, 2013.
- Saeed A, DiBona GF, Grimberg E, Nguy L, Mikkelsen MLN, Marcussen N, Guron G. High NaCl Diet Impairs Dynamic Renal Blood Flow Autoregulation in Rats with Adenine-Induced Chronic Renal Failure. Am J Physiol 306:R411-R419, 2014.
- Marcio G. Kiuchi, Murray D. Esler, Gregory D. Fink, John W. Osborn, Christopher T. Banek, Michael Böhm, Kate M. Denton, Gerald F. DiBona, Thomas H. Everett IV, Guido Grassi, Richard E. Katholi, Mark M. Knuepfer, Ulla C. Kopp, David J. Lefer, Thomas E.Lohmeier, Clive N. May, Felix Mahfoud, Julian F.R. Paton, Roland E. Schmieder, Peter R. Pellegrino Yehonatan Sharabi, Markus P.Schlaich. Proceedings from the International Sympathetic Nervous System (SNS) Summit 2018: Focus on Renal Denervation. Journal of the American College of Cardiology 73:3006-3017, 2019.
- Taavo M, Rundgren M, Frykholm P, Larsson A, Franzen S, Vargmar K, Valarcher JF, DiBona GF, Frithiof R. Role of Renal Sympathetic Nerve Activity in Volatile Anesthesia's Effect on Renal Excretory Function. Function 2: zqab042, 2021.

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