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CV

Curriculum vitae: Michael L. Gross

Present position:

Professor of Chemistry, Medicine, and Immunology, Principal Investigator, NIH Mass Spectrometry Research Resource at Washington University Editor, J. Amer. Soc. Mass Spectrometry, 1990-present CoEditor- Encyclopedia of Mass Spectrometry (with R. Caprioli)

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E-mail: mgross@wustl.edu URL: http://msr.dom.wustl.edu/

Education:

B.A. (Cum Laude) Chemistry, St. John's University (Minn.), 1962

Ph.D., Organic Chemistry, University of Minnesota, 1966 Dissertation Title: "Reactivity of Electron-Rich Aromatics"

Postdoctoral, University of Penn. (E.R. Thornton), 1966-1967 (one year)

Postdoctoral, Purdue University (F.W. McLafferty), 1967-1968 (one year)

Appointments/Affiliations:

Professor of Chemistry, Immunology, and Medicine, Washington University, 1994-

Principal Investigator, Washington University Research Resource in Mass Spectrometry, 1994-

Director, NSF Midwest Center for Mass Spectrometry, 1978-1994

C. Petrus Peterson Professor of Chemistry, University of Nebraska, 1988-1994

3M Alumni Professor of Chemistry, University of Nebraska, 1983–1988

Professor of Chemistry, University of Nebraska, 1978-1994

Assoc. Professor of Chemistry, University of Nebraska, 1972-1978

Ass't Professor of Chemistry, University of Nebraska, 1968-1972

Editor, Mass Spectrometry Reviews, 1982–1990

Research interests:

Development of Mass Spectrometry Methods (MS/MS and FTMS) for Structural Determination of Biomolecules and for Measuring Biophysical Properties of Proteins Development of Fourier Transform Mass Spectrometry (FTMS) for Accurate Mass and Higher Performance

Elucidation of Gas-phase ion chemistry: Metal ion interactions, Distonic ions, Radical cations, Charge-Remote Fragmentations, Fragmentation of Oligodeoxynucleotides, Gas-Phase Solution Analogies

Honors, lectureships

2008	Bruker Daltonics Lectureship	University of Konstanz, Germany
2008	Freiser Lectureship	Purdue University
2006	J.J. Thomson Medal for Service to Int'l MS	Foundation for International Mass Spectrometry
2005	Excellence in Mentoring Award	Washington University Grad. Student Senate
2005	New Jersey Distinguished Lectureship	NJ Section ACS Mass Spectometry Discussion Group
2004	Outstanding Mentor Award	Washington University Grad. Student Senate
2002	Midwest Award for Achievements in Chem.	American Chemical Society
2002	Excellence in Mentoring Award	Washington University Grad. Student Senate
2001	Watkins Visiting Professor	Wichita State University
2001	Outstanding Mentor Award	Washington University Grad. Student Senate
2000	Frontiers in Chemistry Lectureship	Wayne State University
2000	Plenary Lecture	Vienna Mass Spectrometry Colloquium
2000	Plenary Lecture	EnviroAnalysis 2000
1999	Field and Franklin Award	American Chemical Society
1998	Plenary Lecture	Assoc. Official Anal. Chemists' Int'l Meeting
1998	Plenary Lecture	HPLC International Symposium
1997	Plenary Lecture	Colloquium Spectroscopicum Internationale
1997	Plenary Lecture	Igler MS Tage, Innsbruck
1996	Guest Faculty	NATO School on Biol. Mass Spectrometry
1995	Pioneers in Chemistry Series	Texas A&M University
1995	Plenary Lecture	Western Biotechnology Conference, San Diego
1995	Plenary Lecture	FDA Mass Spectrom. Symposium, Washington, DC
1994	Plenary Lecture	Australia/New Zealand MS Conference, Melbourne
1993	Guest Professor	NATO Adv. Study Inst. Biol. MS, Ischia, Italy

1993 Plenary Lecture Colloquium Spectroscopicum Internationale Plenary Lecture Taiwan Int'l Chemistry Conference 1993 1993 Plenary Lecture Indian Society for Mass Spectrometry Indian Society for Mass Spectrometry 1993 Lifetime Member Kraft Lectureship Indiana University 1993 European Tandem Mass Spectrom. Conf. 1992 Plenary Lecture 1992 Recognized as 50 Most Cited Chemists Institute for Scientific Information, 1984-1991 1991 Plenary Lecture Australian Symposium on Analytical Chem. 1991 Plenary Lecture Elsevier Anal, Advances for the 90s Symposium Van't Hoff Visiting Professor Int'l Graduate School, University of Amsterdam 1990 1990 **Guest Professor** NATO Adv. Study Inst. in Biol. Mass Spectrometry 1988 Albright & Wilson Visiting Professor University of Warwick 1988 Plenary Lecture American Society for Mass Spectrometry 1987 Pioneer Award Commonwealth of Mass "In Search for the Health Consequences of Dioxin in Our Environment." 1987 Hertel Lectureship University of Tennessee 1987 Alan Maccoll Plenary Lectureship British Society for Mass Spectrometry British Royal Society "Spectrocopy Across Spectrum" 1987 Plenary Lecture I.C. Karcher Lectureship University of Oklahoma 1986 Plenary Lecture Versailles International Workshop on Ion-Molecule Rxs, 1986 1984 Distinguished Lecture Series Indiana University Swiss/French Mass Spectrometry Conference 1984 Plenary Lecture Third Cycle Lectures 1984 Eidgenössische Technische Hochschule Lausanne

1978	Amoco Teaching Medal University of Nebraska-Lincoln	
Advisory boards	, conference and editorial boards	
2010-2010	University of Georgia, Complex Carbohydrate Research Center	Member, Adv Brd
2007	University of Minnesota, Proteomics Center	Member, Review Panel
2004-2004	University of Illinois Center for Neuroproteomics	Member, Adv Brd
2004-2007	Indiana University, Center for Glycomics and Glycoproteomics	Member, Adv Brd
2002-2002	Harvard University Resource on Biological Imaging	Member, Adv Brd
2001	International Journal of Mass Spectrometry, Volume dedicated to NMM Nibbering	Volume Editor
2000-2000	Encyclopedia of Mass Spectrometry, Elsevier	Co-Editor
1999-2004	Advisory Board, NIEHS Toxicology Center at Vanderbilt University	Member
1997	15th Asilomar Conference on Mass Spectrometry	Organizer
1997	In'l Organizing Committee, Symposia on MS in Biological and Health Sciences	Member
1995-1995	International Journal of Mass Spectrometry	Member, Editorial Brd
1995-1996	Asilomar Conference Committee of the American Society for MS	Chairman
1995	Pittsburgh Conf. Symp Future MS Approaches for Sturct Determination	Organizer
1994-1994	Journal of Mass Spectrometry	Member, Editorial Brd
1994-1996	Chemical Research in Toxicology	Member, Editorial Brd
1994	FACSS Symposium on Structure Elucidation by MS	Organizer
1993-1999	Asilomar Conference Committee of the American Society for MS	Member
1992	Int'l Organizing Committee, Kyoto Conference on Biological MS	Member
1990-1990	Journal of the American Society for Mass Spectrometry	Editor in Chief
1990-2005	Mass Spectrometry Reviews	Member, Editorial Brd
1990-1994	State of Nebraska EPSCoR Oversight Committee	Member
1990	NATO Adv Study Inst. on Biological MS	Scientific Director and Organizer
1987	6th Asilomar Conference on Mass Spectrometry	Organizer
1986-1994	Analytical Chim. Acta	Member, Editorial Brd
1986-1991	National Research Council, Board on Chemical Technology	Member
1986	NSF Oversight Committee	Member
1985-1988	NIH Metallobiochemistry Study Section	Member
1984-1990	IRB, St. Elizabeth, Lincoln General and Bryan Memorial Hospitals	Member
1983-1983	UCSF Research Resource in Mass Spectrometry Advisory Board	Member and Chairman
1982-1990	Mass Spectrometry Reviews	Editor in Chief
1982-1994	Organic Mass Spectrometry	Member, Editorial Brd
1982-1985	Analytical Chemistry	Member, Instrum. Panel
1982-1984	Internationl Journal of Mass Spectrometry and Ion Physics	Member, Editorial Brd
1982-1990	Science Advisory Board, Michael F. Smith Health Care Center, Chicago	Member
1982	EAS Symposium on Anal of Polar or High MolWt Materials by MS	Organizer
1982	ASMS Workshop on Tandem MS	Organizer
1981-1994	Washington University NIH Research Resource in MS Advisory Board	Member

Organizer

Member

Chairman

Chief Analytical Witness

Secretary and Chairman

ACS Symposium Honoring F.W. McLafferty 1981 US EPA Hearings to Suspend 2,4,5-T and Silvex 1980-1981

Dow Chemical Blue Ribbon Panel on Dioxins in Combustion 1979

1979-1982 US Gov't Dioxin Implementation Panel

1977-1980 High Resolution and Organic Qual. Analysis Committees of the ASMS

1972-1974 Nebraska Section of the American Chemical Society

Consultanships

Aventis (and MBHB Patent Law Firm, Chicago) (2004-)

Air Products (1990-)

Schering-Plough (now Merck) (1989-)

Eli Lilly (and MBHB Patent Law Firm, Chicago) (1997-2004)

Vinyl Institute (1996-2004)

Smith Kline Beecham (1997-1999)

Metaphore (1996-1998)

Pimentel Committee to Survey the Chemical Sciences (1983)

Union Carbide (1982-1987)

Midwest Research Institute (1982-1986) New YorkState, Dept. of Law (1982-1985)

Board of Advisors, National Institutes of Environmental Health Sciences (1981, 1983)

National Bureau of Standards, Quality of Analytical Data on Love Canal Survey (1981–1982) U.S. Veterans Administration on the Question of Human Exposure to Agent Orange (1979–1980) U.S. Forest Service on the Question of Dioxin Uptake in Biological Tissue (1979–1980) Food and Drug Administration on Analysis Methods for TCDD (1979) U.S. Air Force on Various Questions on Agent Orange (1978–1980) State of Nebraska, Gasohol Committee (1972–1975) Ad hoc Consultant: Merck, 2004 IBM, San Jose Res. Center (1986) Proctor and Gamble (1985) Tennessee Eastman (1984 and 1988) Kratos Analytical Instruments (1984) 3M (1983) Shell Oil, United Kingdom (1983), Netherlands (1987) Eastman Kodak (1981 and 1985) Exxon (1981 and 1986) Nicolet Instruments (1981) Chevron (1980) Hooker Chemical (1980) Waste Management (1980)

Professional and honorary memberships

Unico Japan (1978) Brunswick (1976)

American Chemical Society
American Society for Mass Spectrometry
Phi Lambda Upsilon
Indian Society for Mass Spectrometry (lifetime member)

Appendix A. Supplementary data

Supplementary data associated with this article can be found, in the online version, at doi:10.1016/j.ijms.2011.01.012.

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