

# Victor J. Hruby - Curriculum Vitae

Hruby, Ph.D.

Professor Emeritus

Chemistry and Biochemistry

University of Arizona

Chemistry Building

(602) 621-2162

[vhruby](#)<sup>[1]</sup>

## Education

University of North Dakota - B.S. 1960 - Chemistry, Mathematics

University of North Dakota- M.S. 1962 - Chemistry

Thesis Title: "The Chemistry of Sulfur Ylids"

Thesis Director: Dr. A. William Johnson

University of Arizona - Ph.D. 1965 - Chemistry

Dissertation Title: "Some Aspects of Benzocyclobutene and Benzocyclobutadiene Chemistry"

Dissertation Director: Dr. Alfred Blomquist

## Table Of Contents

[Education](#), [Academic Appointments](#), [Areas of Interest](#),  
[Awards, Honors, and Fellowships](#), [Teaching Responsibilities](#),  
[Courses Developed](#), [Departmental Committees](#), [National Committees](#),  
[Professional Activities](#), [Editorial Activities](#), [Regular Journal Reviews](#),  
[Current External Consulting](#), [Group Members](#), [Publications](#)

## Academic Appointments

Instructor:	Department of Biochemistry, Cornell University Medical College, New York, New York, 1965-1967; Research Director: Dr. Vincent du Vigneaud
Research Associate:	Department of Chemistry, Cornell University Ithaca, New York, 1967-1968; Research Director: Dr. Vincent du Vigneaud
Assistant Professor:	Department of Chemistry, University of Arizona Tucson, Arizona, 1968-1972
Associate Professor:	Department of Chemistry, University of Arizona Tucson, Arizona, 1972-1977
Guest Worker:	National Institutes of Health, Bethesda, Maryland 1975-1976; Sabbatical with Dr. Martin Rodbell
Professor:	Department of Chemistry, University of Arizona Tucson, Arizona, 1977-present
Regents Professor:	Department of Chemistry, University of Arizona Tucson, Arizona, 1989-2008
Professor:	Department of Biochemistry, University of Arizona (Joint Appointment) Tucson, Arizona, 1978-2008
Regents Professor:	Department of Chemistry and Biochemistry, University of Arizona (Joint Appointment) Tucson, Arizona, 2008-present
Professor:	Arizona Research Laboratories, University of Arizona (Joint Appointment) Tucson, Arizona, 1981-present
Professor:	Program in Neuroscience, University of Arizona (Joint Appointment) Tucson, Arizona, 1988-present

Professor: Department of Medical Pharmacology, University of Arizona  
(Joint Appointment) Tucson, Arizona, 2005-present

Professor: BIO5, University of Arizona  
(Joint Appointment) Tucson, Arizona, 2005-present

Rector's Lecturer: Free University of Brussels  
Brussels, Belgium, 1979. Sponsors: Educational Commissions - Fulbright-Hays

Visiting Professor: Harvard University, Department of Chemistry  
Cambridge, Massachusetts, 1984-1985 (Guggenheim Fellow). Sabbatical with Dr. Martin Karplus

Visiting Professor: California Institute of Technology, Department of Chemistry  
Pasadena, California, 1992. Sabbatical with Dr. Peter Dervan

Visiting Professor: Technical University of Munich, Department of Chemistry and Biochemistry  
Garshing, Germany, 1999-2000 (Senior Humboldt Fellow). Sabbatical with Dr. Horst Kessler

[\[Back to top\]](#)

## **Areas of Interest**

- Physical/Chemical Basis for Information Transduction
- Host-Guest Relationships
- Peptide Hormone and Neurotransmitter Structure-Function
- Brain Chemistry
- Relation of Conformation to Biological Activity
- Amino Acid, Peptide and Protein Organic Synthesis
- NMR as a Structural Tool for Peptides and Proteins
- Peptides and Cancer - Multimeric Ligands
- Mechanisms of Hormone and Neurotransmitter Actions
- Peptides in the Central Nervous System and Gut - Peptides and Behavior
- Bioorganic Chemistry
- Molecular Mechanics and Molecular Dynamics of Peptides
- Peptide and Peptidomimetic Drug Design
- Asymmetric Synthesis
- Peptide G-Protein Coupled Receptors
- Peptide and Other Chemical Libraries
- Peptides and Cancer Therapy
- Combinatorial Chemistry
- Pain and Drug Abuse
- Topographical Considerations in Molecular Recognition
- De Novo Design of Peptide Mimetics
- The Chemical Basis for Behavior
- Obesity and Anorexia
- Pigmentation
- Erectile Function

[\[Back to top\]](#)

## **Awards, Honors and Fellowships**

1959-1960 Abbott Award; Coon Award; Magna cum laude; *University of North Dakota*  
 1961 NSF Summer Fellow; *University of North Dakota*  
 1962 Sigma Xi; *University of North Dakota*  
 1965 NSF Cooperative Fellow; *Cornell University*  
 1972 American Association Advancement of Science - Fellow  
 1974 American Institute of Chemists - Fellow  
 1975-1976 U.S. Public Health Service Senior Research Fellowship; NIH  
 1978-1979 Rector's Lectureship; *Free University of Brussels*  
 1979 Fulbright-Hays Fellow  
 1979 Pfizer Lecturer, *Clinical Research Institute of Montreal*  
 1979 University Lecturer; *University of Baghdad*  
 1981 New York Academy of Science – Fellow  
 1981-1982 UNESCO Lecturer; Bangalore, India  
 1983 Welsh Lectureship  
 1984 Karger Lecturer; *University of Oklahoma*  
 1984 Distinguished Alumni Lecturer; *University of North Dakota*  
 1984-1985 Guggenheim Fellowship  
 1985 University Lecturer; *University of Texas*  
 1986 American Diabetes Association Research Award  
 1986 DuPoint Distinguished Lecturer; *University of Indiana*  
 1987 Javits Neuroscience Award  
 1988-1996 MERIT Award – NIH  
 1988 Merritt-Putnam Lecturship  
 1989 Doctor Honoris Causa; *Free University of Brussels*  
 1989 Regents Professor; *University of Arizona*  
 1989 Selectide Corporation- Founder  
 1991 University Distinguished Lecturer; *Creighton University*  
 1993 Pierce (ne Merrifield) Award (APS)  
 1996 Bloomquist Lecturer, Cornell University  
 1999-2000 Humboldt Senior Scientist Award - Fellow  
 2000 Sieman's Lecturer, Germany  
 2001 Tetrahedron - Guest Editor (with Vadim Soloshonok). Asymmetric Synthesis of Novel Sterically Constrained Amino Acids  
 2002 Ralph T. Hirschmann Award (ACS)  
 2002 Cathay Award (China)  
 2003 Karcher Lecturer; *University of Oklahoma*  
 2003 Abbott Lecturer; *University of North Dakota*  
 2003 Nolan and Gloria Sommer Award  
 2005 Arizona Art, Science & Technology Academy  
 2006 Eminent Scholar Lecture; *University of Arizona*  
 2006 Distinguished Career Teaching Award; *University of Arizona*  
 2006 Anniversary Medal; *Polish Academy of Sciences*  
 2007 Goodman Lecturer; *University of California San Diego*  
 2009 Arizona Technology Innovator of the Year; *University of Arizona*  
 2009 Arthur C. Cope Scholar Award (ACS)  
 2010 Boehringer Ingelheim Lecturer; *University of Montreal*  
 2011 Murray Goodman Scientific Excellence Mentorship Award (APS)

[\[Back to top\]](#)

## **Teaching Responsibilities**

Chemistry 540 - Organic Synthesis	1968-1977
Chemistry 543 - Organic Structure Determination	1969-present
Chemistry 299, 399, 499 - Honors (Undergraduate Research)	1969-present
Chemistry 241a,b - Organic Chemistry	1973-1991
Chemistry 241a,b - Honors (Organic Chemistry)	1970-1973

Chemistry 245a,b - Organic Chemistry Laboratory-Majors	1970-1974
Chemistry 101b - Lectures in General Chemistry	1973, 2001
Chemistry 446 - Organic Preparations	1977, 1987-1991
Chemistry 440 - Qualitative Organic Analysis)	1980, 1986, 1987, 1989, 1991,1995
Biochemistry - Proteins, Enzymes, and Physical Biochemistry	1978, 1980, 1982
Biochemistry - Biophysical Methods	1985-1988
Chemistry 402/502 - Intermediate Organic Chemistry	1985, 1986, 1996, 1997, 1998, 2002, 2003
Chemistry 696C - Organic Seminar	1985, 1986, 1992, 1996
Chemistry 646X & 549A - Peptide and Protein Chemistry	1990, 1994, 1997, 2000, 2009
Chemistry 436, 536 - Scientific and Ethical Aspects of Modifying Human Behavior	2004, 2006, 2008, 2010

[\[Back to top\]](#)

## **Courses Developed**

Chemistry 543	Organic Structure Determination
Chemistry 245a; 245b	Organic Chemistry Laboratory
Chemistry 440	Organic Qualitative Analysis
Chemistry 646	Peptide and Protein Chemistry
Chemistry 402/502	Intermediate Organic Chemistry
Chemistry 436/536	Scientific and Ethical Aspects of Modifying Human Behavior

[\[Back to top\]](#)

## **Departmental Committees**

1968-1973	Seminar Committee; Chairman (1969-1973)
1968-1973	Safety Committee; Ad Hoc Committee on Laboratory Renovations (1971-1972)
1973-1975	Travel and Recruiting Committee; Chairman
1973-1975	Undergraduate Advisor
1976-1978	Graduate Study Committee; Chairman (1977-1978)
1978-1979	Faculty Search Committee; Chairman, (1978-1980, 1985-1988)
1979-1999	NMR Committee
1979-1982	Research Committee
1980	Ad Hoc Committee on Faculty Recruiting
1981-1983	Ad Hoc Committee on Faculty Recruiting, Space Committee
1981-1988	Steering Committee; Head, Organic Division (1982-1986)
1983-1992	Promotion and Tenure (For Different Professors)
1984-present	Faculty Advisory Committees For Asst. Professors
1988-1990	Research Committee
1988-1990	Department Head Search; Chairman
1990-2005	Computer Graphics Facility
1991-1992	Safety Committee
1995-1999	Computer Graphics Facility Committee; Chairman

1999-present	Promotion and Tenure (For Different Professors)
2000-2004	Computer Graphics Facility Committee; Chairman
2003-2010	Faculty Search Committee; Chair
2003-present	Committee for Faculty Hiring Plan; Chair
2007-present	Faculty Research Committee

[\[Back to top\]](#)

## University Committees

1971-1975	University Conciliation Panel Head
1976-1980	University Committee on Graduate Study
1979-1983	Pre-Health Professional Committee
1981-1984	Liberal Arts College Promotion and Tenure Committee;Chairman (1982-1983)
1981-present	Arizona Research Laboratory Member
1982-1983	Department Head Search Committee, Chemistry
1982-1985	Biotechnology Committee
1983-1987	Sequencing Facility
1986-1990	Technology Transfer Committee
1987-1993	User Group Committee, Molecular Biology Support Facility, Biotechnology Center
1987-1996	User Group Committee, Molecular Design Facility, Biotechnology Center
1987-1990	University Promotion and Tenure Committee
1989-1991	University Committee on Ethics and Commitment; Acting Chair (1990-1991)
1988	University Committee to Evaluate the Department of Nutrition and Food Science
1989	Faculty of Science Committee to Evaluate Dean
1990-1991	Research Policy Committee
1994-1997	Committee on Academic Freedom and Tenure
1994-2002	Biology 21 Committee
1994-1996	Organizing Principles Committee
1997-2001	Faculty Chair's Task Force on Faculty Salaries
1998	Undergraduate Centennial Achievement Award Committee
2001-present	Biological Chemistry Program Co-Chair
2001-2004	Biotechnology Search Committee
2003-2004	Institute for Biomedical Science and Biotechnology
2005-present	Executive Committee - ARIBI

[\[Back to top\]](#)

## National Committees

1977-present	Public Health Service Consultant, Site Visits, Ad Hoc
1979-1990	National Executive Committee, American Peptide Symposium
1980-1984	Physiological Chemistry Study Section, NIH
1981-1983	Chairman, American Peptide Symposium
1985-1989	Secretary, American Peptide Symposium
1985-1989	Bioorganic and Natural Products Chemistry Study Section, NIH
1988-2004	Committee of Editors of Biochemical Journals, IUPAC
1988-1994	Grants Program Advisory Board, Research Corporation
1988-1993	American Chemical Society, Canvassing Committee, Hirschmann Award
1990-1991	American Peptide Society, Council - President
1991-1993	American Peptide Society, Liaison Committee - Chair
1993-1994	NRC Study Committee, Stress in Science, U.of A. Faculty Representative
1993-1995	du Vigneaud Award Committee
1994-1997	American Chemical Society, Medicinal Chemistry - Councilor
1995-1997	Awards Committee, Chair, APS
1996-1998	American Peptide Society, Awards Committee, Chair
1997-2003	American Peptide Society, Council

## Professional Activities

American Chemical Society	
<i>Joint Board-Council Committee on Patents and Related Matters</i>	1997-2010
<i>Academic Councilor-Medicinal Chemistry</i>	1994-2000
<i>Alternate Councilor - Medicinal Chemistry</i>	1997-2001
<i>Ethics Committee</i>	2010-present
Southern Arizona Section	
<i>Secretary</i>	1972
<i>President-Elect</i>	1973
<i>President</i>	1974
American Institute of Chemists, Fellow	
American Association for Advancement of Science, Fellow	
New York Academy of Science, Fellow	
Society of Sigma Xi	
American Society of Biochemistry and Molecular Biology	
Biophysical Society	
American Peptide Symposium	
<i>President</i>	1982-1984
<i>Vice President</i>	1984-1985
<i>Secretary</i>	1985-1989
Marvel Symposium, Chairman	1987
International Union of Pure and Applied Chemistry	1989-present
Selectide Corporation, Founding Scientist	1990
Scientific Advisory Board, Chairman	1991-1995
American Peptide Society	
<i>President</i>	1990-1991
<i>Liaison Committee</i>	1991-1993
<i>Honorary Member</i>	1993-present
<i>Awards Committee, Chairman</i>	1996-1999
<i>Publications Committee</i>	1995-2003
<i>Council</i>	1997-2003
Protein Society	1990-present
The International Neuropeptide Society Board	1994-present
The Cathay Award International Committee	1996-2001, 2006-2010
Keystone Symposium, Chairman and Organizer with Gary Olson, Peptide Mimetics	1992
Task Force for Review of Journal of Medicinal Chemistry	1998-1999
Organizing Committees	
<i>Am. Peptide Symposium</i>	1997-1999
<i>Chinese Peptide Symposium</i>	1995-present
<i>Intl. Peptidomimetic Symposium</i>	1990-2002
Gordon Research Conference on Peptide Chemistry and Biology, Co-Chair	2002

## Editorial Activities

Editor-in-Chief	<u>The Journal of Peptide Research</u>	1997-present
Editor-in-Chief	<u>International Journal of Peptide and Protein Research</u>	1988-1996
Associate Editor	<u>International Journal of Peptide and Protein Research</u>	1981-1988
Editorial Boards	<u>Journal of Protein Chemistry</u>	1981-2005
	<u>Life Sciences</u>	1984-1990
	<u>Journal of Medicinal Chemistry</u>	1987-1991
	<u>Peptide Research</u>	1988-2006
	<u>Journal of Receptor and Signal Transduction Research</u>	1991-2006
	<u>Peptide Science</u>	1993-present
	<u>Drug Design and Discovery</u>	1993-present
	<u>Current Topics in Medicinal Chemistry</u>	1994-present
	<u>Heterocyclic Communications</u>	1994-present
	<u>Combinatorial Chemistry and High Throughput Screening</u>	1997-present
	<u>I Drugs, The Investigational Drugs Journal</u>	1998-present
	<u>Chemical Biol &amp; Drug Design</u>	2006-present
	<u>Drug Design, Development &amp; Therapy</u>	2007-present
	<u>Open Medicinal Chemistry Journal</u>	2007-present
	<u>Biologics: Targets &amp; Therapy</u>	2006-present
	<u>Drug Design, Development &amp; Treatment</u>	2007-present
	<u>Drug Design &amp; Reviews Online</u>	2003-present
	<u>Peptides</u>	2010-present

[\[Back to top\]](#)

## Regular Journal Review

- Journal of the American Chemical Society
- Journal of Organic Chemistry
- Science
- Biochemistry
- Proceedings of the National Acadademy of Science U.S.A.
- Biopolymers
- Organic Magnetic Resolution
- Life Sciences
- Journal of Mededicinal Chemistry
- Tetrahedron Letters
- Tetrahedron
- Bioorganic & Medicinal Chemistry Letters
- Organic Letters
- Nature
- Angew. Chemie
- Several other Biological Journals

[\[Back to top\]](#)

## External Consulting

U.S.Public Health Service	1977-present
COBRE, NDSU	2001-2006
Several chemical and biotechnology companies (currently three)	1975-present

[\[Back to top\]](#)

## People in Research Group

Research Professors - 2  
Postdoctorals - 3  
Graduate Students - 7  
Research Scientists - 1  
Undergraduate Students - 8  
Visiting Scientists - 1

[\[Back to top\]](#)

## Publications

Over 1200 papers in refereed journals, monographs and proceedings – see [Publications](#)<sup>[2]</sup>  
Over 400 abstracts from meetings and symposia  
Editor of 3 books  
Co-author of 1 book  
Over 15 patents

[\[Back to top\]](#)

## [Research Group](#)<sup>[3]</sup>

Department of Chemistry and Biochemistry at The University of Arizona  
P.O. Box 210041, 1306 East University Blvd., Tucson, AZ 85721-0041  
Phone: 520.621.6354 Fax: 520.621.8407

[UA NetID Login](#)

---

**Source URL (retrieved on 01/12/2013 - 5:22am):** [http://www.chem.arizona.edu/research\\_group/hruby\\_cv](http://www.chem.arizona.edu/research_group/hruby_cv)

### Links:

- [1] <http://hruby@email.arizona.edu>
- [2] [http://www.cbc.arizona.edu/research\\_group/hruby\\_pubs](http://www.cbc.arizona.edu/research_group/hruby_pubs)
- [3] <http://www.chem.arizona.edu/taxonomy/term/14>