

Professor (Recall), Dept of Pharmaceutical Chemistry &
Deputy Director, Mass Spectrometry Facility,
University of California, San Francisco, California

Oct 2006 - present

Editorial Boards

Editorial Board, Archives of Biochemistry and Biophysics
Editorial Board, Journal of Biological Chemistry

Mar 1972 - June 1988
Sept 1973 - June 1977
July 1978 - Aug. 1979
July 1981 - June 1986
Oct 1989 - Apr 2002
June 1975 - Dec 1991
Jan 1986 - Dec 1991
Jan 1980 - Apr 1991

Associate Editor
Editorial Board, Trends in Biochemical Sciences (TIBS)
Editor-in-Chief

Editorial Board, Journal of Supramolecular
Structure/Cellular Biochemistry

Editorial Board, Bioscience Reports

Editorial Board, Peptide and Protein Reviews

Editorial Board, Journal of Protein Chemistry

Editorial Board, IN VITRO Rapid Communications
in Cell Biology

Editorial Board, Proteins: Structure, Function and Genetics

Editorial Board, Journal of Neurochemistry

Editorial Board, International Journal of Biological Macromolecules

Editorial Board, Growth Factors

Associate Editor

Editorial Board, Cancer Communications/Oncology Research

Editorial Board, Protein Science

Associate Editor

Editorial Consultant

Editorial Board, Biotechnology and Applied Biochemistry

Editorial Board, Molecular Cell Biology Research Communications

Co-Editor-in-Chief

Editorial Board, Molecular and Cellular Proteomics

Editor (Co-editor)

Sept 1980 - Dec 1987
Jan. 1980 - July 1985
Oct 1980 - Dec 1990

Mar 1984 - Dec 1984
May 1986 - Dec. 1992
July 1986 - Dec. 1990
Feb. 1988 - Sept. 1989
Jan. 1988 - Dec 2008
Jan. 1988 - Dec 2008

Jan. 1989 -
Aug. 1990 - Sept 2001
Aug. 1990 - Aug 1992
May 1997 - Sept 2001
July 1993 - Dec 1994

Sept 1995 - Dec 2010
July 1998 - Aug 2001
July 1998 - Aug 2001
Nov 2000 -
Nov 2000 -

Advisory Positions

National Institutes of Health
Physiological Chemistry Study Section

Chairman

Biomedical Sciences Study Section

Hereditary Disease Foundation

Scientific Advisory Board

American Heart Assoc.

Physiological Chemistry B Res. Study Comm.

American Cancer Society, California Division

Fellowship Screening Committee

Cleveland Clinic, Program in Hypertension

External Advisory Board

July 1975 - June 1979
July 1978 - June 1979
Oct 1980 - May 1985

Jan 1983 - Jan 1987

Jan 1984 - June 1986

Sept 1984 - Jan 1987

1985 - 1988

Western Winter Workshops (UCLA Symposia)

Chairman of the Advisory Committee

UCLA Symposia Scientific Advisory Board

Keystone Symposia in Molecular and Cell Biology

Scientific Advisory Board

Executive Committee

Vice - Chairman

Chairman

June 1984 - July 1988
June 1987 - June 1990

July 1990 -
July 1990 - June 1995
July 1990 - Dec 1991
Dec 1991 - Dec 1994

Management Committee	July 1995 - Sept 1997
Board of Directors	Sept. 1997 – June 2007
Treasurer	Sept 1997 - June 2007
Emeritus	June 2007-
Globalization Comm	June 2007-
Chair	June 2007 – Jan 2010
NAS-NRC U.S. National Committee on Biochemistry	1987 - 1996
Vice-Chairman	1991 - 1992
Chairman	1992 - 1996
11th American Peptide Symposium	
Program Committee	1988 - 1989
Keystone Center, Board of Trustees	Dec 1991 - Dec 1997
Executive Committee	Dec 1991-Sept 1994
Cure Autism Now (CAN) Foundation/Autism Speaks	
Scientific Advisory Board	June 1997 – Dec 2008
Hagedorn Institute, Gentofte, Denmark	
Scientific Advisory Board	Apr 1997 – Nov 1999
Australian Health and Medical Research Strategic Review Committee (“Wills” Committee)	1998 - 2000
AAMC/AMA Clinical Research Summit Project	
Basic Science Focus Group	Sept. 1998
University of Kentucky, COBRE Advisory Comm	Sept 2003 -

Societies

American Chemical Society	1964 -
Division of Biological Chemistry, Councilor	Sept. 1983 - Aug. 1986
American Association for the Advancement of Science	1966 -
Fellow	1987 -
Sigma Xi	1966 -
UC Irvine Club, Vice President	1990 - 1991
President	1991 - 1992
New York Academy of Sciences	1970 -
American Society of Biological Chemists/BMB	1971-
Program Planning Committee	
1976 ASBC Meeting, San Francisco, CA	1975 - 1976
1977 ASBC (FASEB)	1976
2002 Exp. Biol., New Orleans, LA (Co-Chair)	2001-2002
2004 ASBMB, Boston, MA	2003-2004
Committee on Equal Opportunities for Minority Groups	1978 - 1984
Nominating Committee	1984 - 1985, 1986 - 1987
Membership Committee	1986 - 1990
Councilor	1987 - 1990
Treasurer	1991 - 1997
Public Affairs Advisory Committee	1997 - 2010
Deputy Chair	2006 - 2008
Chair	2008 - 2009
Past-chair	2009 - 2010
Centennial Celebration Committee	Mar 2003-Apr 2006
Co-chair	Mar 2003-Apr 2006
Historian	Mar 2007-
American Society for Neurochemistry	1975 - 1995
1983 Program Committee	1981 – 1983
1988 Program Committee	1987 - 1988
American Heart Association, Council on Thrombosis	1976 - 1990
The Endocrine Society	1978 - 2003
Emeritus	2004 -

American Society for Cell Biology	1984 -
Society for Neuroscience	1985 -
International Society of Neurochemistry	1986 - 2003
The Protein Society	1986 -
President pro-tem	Jan 1986 - Aug 1987
Organizing Committee	Jan 1986 - Aug 1987
Program Committee, 1987 Meeting	July 1986 - Aug. 1987
Council (Past-president; at large)	Aug 1987 - Jun 1991
Industrial Relations Committee (Co-chair)	Oct 1987 - Aug 1989
Publications Committee	Aug 1989 - Aug 1990
American Peptide Society	1990 - 2003
Nominating Committee	1991 - 1992
Association of Medical and Graduate Depts. of Biochem. (formerly AMSDB)	1982 - 1993
President-elect	Jan 1991 - Jan 1992
President	Jan 1992 - Jan 1993
International Union of Biochemistry and Molecular Biology	Aug 1991 - Aug 1997
Executive Committee (Publications)	Aug 1991 - Aug 1997
Archive Committee	Oct 2007 -
Co-Chair	Oct 2007 -
Federation of American Societies of Experimental Biology	Dec 1992 - June 1996
Board of Directors (ASBMB representative)	July 1994 - June 1995
Vice-president	July 1995 - June 1996
President	July 1996 - June 1997
Past-President	July 1996 - June 1997
American Society for Bone and Mineral Research	Jan 1997 - Dec 2003
Association of Biomolecular Resource Facilities	Sept 1997 -
Chair, Publications Committee	Oct 1999 - Dec 2001
HUPO	2005 -
Chair, Ad hoc Committee on Governance	Jun 2009 -
USHUPO	2005 -
Council	2006 -
Chair, Membership Comm	2009 -

Meeting/Conference Organization

Co-Director, NATO Advanced Study Institute 38/72 " <i>Proteins of the Nervous System</i> ," Cortona, Italy	Sept 1972
Co-Chairman, International Symposium on Heparin St. Louis, Missouri	May 1974
Director, NATO Advanced Study Institute 75/32 " <i>Surface Membrane Receptors</i> ," Bellagio, Italy	Sept 1975
Co-Chairman, Workshop Concerning Minority Careers in Biological Research, St. Louis, Missouri	Apr 1977
Organizing Committee, 3rd Lorne Conference on Protein Structure and Function, Lorne, Victoria, Australia	Feb 1978
Co-Chairman, Peoples Republic of China-USA Conference " <i>Proteins in Biology and Medicine</i> ," Shanghai, PRC	May 1981
Co-Organizer, UCLA Symposium " <i>Evolution of Hormone-Receptor Systems</i> " Squaw Valley, California	Mar 1982
Co-Chairman, 2nd USA-PRC Conference " <i>Proteins in Biology and Medicine</i> " Oklahoma City, Oklahoma	June 1983
Organizing Committee, Hans Neurath 75th Anniversary Symp. " <i>Proteases: Modulators of Information Transfer</i> " Orcas Island, Washington	Sept 1984
Organizing Committee, Symp. of American Protein Chemists	Sept 1985 - Oct 1985

San Diego, California	
Co-Organizer, International Symp. on Nerve Growth Factor and Related Substances, Monterey, California	April 1986
Co-Organizer, UCLA-DuPont Symposium <i>"Molecular Biology of Intracellular Protein Sorting and Organelle Assembly,"</i> Taos, New Mexico	Jan 1987 - Feb 1987
Co-Organizer, NIMH Aging Center Workshop <i>"Neurotrophic Factors and Alzheimer's Disease"</i> Newport Beach, California	Sept 1987
Co-Organizer, UCLA Western Workshop <i>"Molecular Basis of Neurodegenerative Disease"</i> Tahoe City, California	June 1989
Organizer, ASN Satellite Workshop <i>"Signal Transduction,"</i> Phoenix, Arizona	Mar 1990
Co-Organizer, UCLA-Symposium <i>"Neurotrophic Factors,"</i> S. Padre Island, TX	Apr 1990
Chairman, International Symposium <i>"Gene Expression and Signal Transduction"</i> Irvine, California (Nomura Festschrift)	Apr. 1990
Co-Organizer Keystone Symposium, <i>"Proteolysis in Regulation and Disease,"</i> Keystone, CO	Apr 1991
Organizing Committee, 2nd International Symposium <i>"NGF and Related Substances,"</i> Daydream Is., QLD Australia	July 1991
Co-Organizer, UCI-AMGEN Symposium <i>"Membrane Channels, Receptors and Growth Factors"</i> Irvine, California	Mar 1992
Co-Organizer, 3rd USA-PRC Conference on Proteins Honolulu, Hawaii	June 1992
Vice Chair, IUBMB/ASBMB 1997 Int. Congress Biochemistry Organizing Committee, San Francisco, California	1992 - 1997
Co-Organizer, ASBMB Fall Symposia <i>"Mechanisms of Regulated Intracellular Protein Degradation"</i> Whistler, British Columbia, Canada	Oct 1994
Co-Chair, Symposium on <i>"Structure, Function and Evolution of Glycoproteins and Related Substances"</i> (Hillfest '95) Orcas Island, WA	Aug 1995
Co-Organizer, Keystone Symposium, <i>"Intracellular Signalling by Tyrosine Kinases,"</i> Taos, NM	Mar/Apr 1996
Co-Organizer, Keystone Symposium, <i>"Specificity in Signal Transduction"</i> Incline Village, NV	Mar 1998
Co-Organizer, ASBMB Fall Symposium, <i>"Regulation of Bone Growth"</i> Taos, NM	Oct 1998
Co-organizer, Keystone Symposium, <i>"Signaling Systems: Chemistry, Biology and Pathology"</i> Steamboat Springs, CO	Apr 2001
Organizing Committee, 5th International Symposium, <i>"Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics"</i> , San Francisco, CA	Aug 2001
Program Chair, Mtg International Society for Developmental Neuroscience, Sydney, NSW, Australia	Feb 1999 - Jan 2002
Co-chair, ASBMB 2002 National Mtg., New Orleans, LA	Sept 2000 – Apr 2002
Co-organizer, "Proteomic Solutions in Cellular and Developmental Biology and Medicine," Stowers Institute for Medical Research, Kansas City, MO	May 2002 - May 2003
Organizing Committee, 6th International Symposium, <i>"Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics"</i> , San Francisco, CA	Aug 2003
Organizing Committee, 7th International Symposium, <i>"Mass Spectrometry in the Health and Life Sciences: Molecular and</i>	Aug 2005

<i>Cellular Proteomics</i> , San Francisco, CA	
Co-organizer, Keystone Symposium “Macromolecular Complexes” Cambridge, England	Aug 2006
Organizing Committee, 8th International Symposium, “ <i>Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics</i> ”, San Francisco, CA	Aug 2007
Co-organizer, “ <i>Workshop on Guidelines for Clinical Proteomics Manuscripts</i> ”, Copenhagen, Denmark	Apr 2008
Co-organizer, ASBMB Fall Symposium “ <i>Post Translational Modifications: Detection & Physiological Evaluation</i> ” Granlibakken, CA	Oct 2008
Organizing Committee, 9th International Symposium, “ <i>Mass Spectrometry in the Health and Life Sciences: Molecular and Cellular Proteomics</i> ”, San Francisco, CA	Aug 2009

Honors

The Passano Foundation Young Scientist Award	1976
American Chemical Society, St. Louis Section Award	1979
Italian National Research Council (C.N.R.) Gold Medal	1987
Athalie Clarke Research Award, UC Irvine Research Associates	1994
Australia Society of Medical Research Gold Medal	1999
Golden Globe Award, International Proteomics Forum, HUPO2009	2009
HUPO Distinguished Service Award	2010

Financial Support

USPHS Predoctoral Fellowship	1964 - 1966
USPHS Postdoctoral Fellowship	1966 - 1968
USPHS Research Grant, Dehydrogenases/Protein Processing	1969 - 1990, 1991 - 2002
EMBO Short Term Fellowship	1969
Life Insurance Medical Research Grant	1970 - 1972
USPHS Research Career Development Award	1970 - 1975
USPHS Thrombosis Center Grant	1971 - 1976
USPHS Research Grant, Nerve Growth Factor	1972 - 1989, 1990 - 2000
Washington University Research Grant	1972
Damon Runyon Research Grant	1973 - 1975
Josiah Macy Faculty Scholar Award	1977 - 1978
American Cancer Society Research Grant	1978 - 1995
NSF Sequence Facility Equipment Grant	1978, 1983
USPHS Research Resources Grant	1985, 1987, 1988
USPHS Program Project, Aging	1985 - 1990
AMGEN Corp. Research Grant	1992 - 1993
Alexander von Humboldt Senior Scientist Fellowship	1992 - 1993
USPHS Program Project, Growth Disorders	1996 - 2001
Baxter Hyland Research Award	1998 - 2000
NSF 2010 Project Grant, Arabidopsis	2003 - 2007
Parke Davis Exchange Fellowship	2004
NCRR P41 Grant (Deputy Director)	2006 -

Visiting Positions

EMBO Visiting Scientist, Univ. of Zurich Zurich, Switzerland	June 1969 - July 1969
Visiting Scientist, LBC, CNR, Rome, Italy	July 1971
Visiting Lecturer, Duke Univ. Marine Station Beaufort, North Carolina	July 1972
Scholar-in-Residence, Rockefeller Study and Conference Center, Villa Serbelloni, Bellagio, Italy	July 1975

Josiah Macy Faculty Scholar, Howard Florey Institute Univ. of Melbourne, Victoria, Australia	July 1977 - June 1978
Visiting Lecturer, Univ. of Sydney, New South Wales, Australia	Sept. 1977
Visiting Lecturer, Univ. of Kentucky, Lexington, Kentucky	Mar 1987
Visiting Lecturer, Univ. of Camerino (CNR), Camerino, Italy	June 1987
Alexander von Humboldt Senior Scientist Max Planck Institute for Biochemistry (Molecular Biology) Martinsried, Germany	Sept 1992 - Aug 1993
Visiting Professor, Universite des Sciences et Technologies - Lille Villeneuve d'Ascq, France	June 1994
Visiting Scientist, Hagedorn Research Institute Gentofte, Denmark	June 1997
Visiting Scholar (Parke Davis Exchange Fellow), Dept. of Biochemistry, Cambridge University, Cambridge, England	Jan 2004 - Jan 2005

Academic External Review Committees

San Diego State University Chemistry Department	Apr 1979
UC Los Angeles Molecular Biology Graduate Program	Dec 1986
SUNY Buffalo Biology Department	Apr 1987
UTMB Galveston Human Biochemistry and Genetics Department	Nov 1987
U Mass Worcester Biochemistry Department	Nov 1987
University of Bern (Theodor Kocher Institute) Switzerland	June 1988
Louisiana State University-New Orleans/Tulane University Departments of Biochemistry	June 1990
University of Minnesota, Minneapolis Department of Biochemistry	June 1990
Louisiana State University - Baton Rouge and Shreveport Departments of Biochemistry	Feb 1991
Pennsylvania State University Medical Center, Hershey Department of Biochemistry	June 1991
UC Los Angeles Department of Biological Chemistry	Jan 1994
UC Los Angeles DOE - Division of Biomolecular and Cellular Sciences	Dec 1994
UC Riverside College of Natural and Agricultural Sciences - (Blue Ribbon Committee)	Oct 1995
Queensland University of Technology Centre of Molecular Biotechnology	Nov 1999
University of Adelaide	Nov 1999
University of Arizona Department of Biochemistry and Molecular Biophysics	March 2002
ESPRI, INSERM Laboratory in Growth Factor Signaling in Breast Cancer/Functional Proteomics, USTL, Lille	May 2004, May 2005 Oct, 2006, Apr 2008, Sept 2009, Oct 2010
QANU Review, Institute of Pharmaceutical Sciences, University of Utrecht, Netherlands	Nov. 2010

Corporate Affiliations

Consultant, Durrum Chemical Co. (Dionex Corp.), Sunnyvale, CA	1970 - 1978
Scientific Advisor, International Genetic Engineering (INGENE), Santa Monica, CA	1982 - 1989
Scientific Advisory Board, Nucleic Acid Research Institute (ICN), Costa Mesa, CA	1986 - 1987
Board of Directors, ICN Biomedicals, Costa Mesa, CA	1986 - 1991
Consultant/Founding Scientist, Cortex Pharmaceuticals, Irvine, CA	1988 - 1994
Board of Directors	1990 - 1991
Consultant, AMGEN Corp., Thousand Oaks, CA	1991 - 1994
Consultant, Baxter-Hyland, Duarte, CA	1992 - 2000
Consultant, Cardio Vascular Genetic Engineering (Cardio Vascular Biotherapeutics), Irvine, CA/Las Vegas NV	1999-
Chair, Scientific Advisory Board	2000 -
Consultant, Phage Biotechnology Corp., Irvine, CA	1999 - 2009
Chair, Scientific Advisory Board	2000 - 2009
Scientific Advisory Board, Paradigm Genetics, Research Triangle Park, NC	2001 - 2003
Scientific Advisory Board, MediMolecular, Adelaide, SA, Australia	2001 - 2003
Scientific Advisory Board, Aptamer Technologies, Adelaide, SA, Australia	2003 -
Consultant on Biotechnology Development, Rhone-Alpes Region, France	2002 - 2003

University Service

Washington University

Department of Biological Chemistry

Director of Graduate Studies	May 1970 - May 1973
Principal Investigator NIH Training Grant	July 1971 - June 1976

Division of Biology and Biomedical Sciences

Chairman, Graduate Admissions Committee	May 1973 - June 1977
Chairman, Graduate Advisory Committee (Director of Graduate Studies)	May 1973 - June 1977
Principal Investigator NIH Training Grant	July 1975 - June 1977
Chairman, Molecular and Cellular Biology Seminar Program	July 1979 - June 1980

University of California, Irvine

College of Medicine

Anatomy Dept. Chairman Search Committee	July 1982 - Jan 1983
Strategic Planning Committee	Jan 1983 - Dec 1984
Chairman, Search Committee for Associate Dean Medical Student and Curricular Affairs	Mar 1984 - Dec 1984
Committee for Graduate Academic Programs	1984 - 1988
College of Medicine, Chairman	1986 - 1988
Pathology Dept. Chairman Search Committee	Apr 1986 - June 1987
Neurology Dept. Chairman Search Committee,	Oct 1986 - June 1987
Executive Committee	1986 - 1988

Endocrinology Division Head Search Committee Chairman	1988 - 1989
Cardiology Division Head Search Committee	1991 - 1992
Representative Assembly	1994 - 1996
Research Advisory Group	1997 - 2000
Vice-chair (Chair-elect), Executive Committee	Jan 2001 - Aug 2002
Chair, College of Medicine Faculty	Sept 2002 - Aug 2003
Compensation Committee	Jan 2001 - Dec 2001
LCME Internal Review Committee: Governance and Administration	Mar. 2001 - Sept. 2001

University-wide

Advisory Board, FRP on Gene Research and Biotechnology	Oct 1983 - June 1986
Advisory Board, Gene Regulation NIH Training Grant	June 1984 - 1988
University Biotechnology Comm. Subcomm. on Biochemical Engineering	Aug 1984 - Apr 1985 Jan 1985 - Apr 1985
Co-director, Carcinogenesis NIH Training Grant	Aug 1984 - July 1989
Advisory Board, Cancer Research Institute	July 1985 - Aug 2006
Director, Biotechnology Training Program	Jan. 1986 - Dec. 1990
Associate Vice Chancellor-Administrative and Business Services Search Committee	July 1986 - Jan 1987
Representative Assembly, Academic Senate	1989 -1991, 1993-1995, 2002-2003
Program in Neurobiology of Early Learning, Scientific Advisory Board	1987 - 2006
Co-director, Irvine Research Unit on Molecular Neurobiology	1989 - 1994
Head, Neurobiology Track, MBG & B Combined Graduate Program	1997- 1998

System-wide

Cancer Research Coordinating Committee	1988 - 1992
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BIBLIOGRAPHY

Edited Books

1. D. J. Schneider, R. H. Angeletti, R. A. Bradshaw, A. Grasso, and B. W. Moore (eds.), *"Proteins of the Nervous System"*, Raven Press, NY (1973).
2. R. A. Bradshaw and S. Wessler (eds.), *"Heparin: Structure, Function and Clinical Implications"*, (Advances in Experimental Medicine and Biology, Vol. 52), Plenum Press, NY (1975).
3. R. A. Bradshaw, W. A. Frazier, R. C. Merrell, D. I. Gottlieb, and R. A. Hogue-Angeletti (eds.), *"Surface Membrane Receptors: Interface Between Cells and Their Environment"*, (NATO Advanced Study Institutes Series, Vol. A11), Plenum, Press, NY (1976).
4. R. A. Bradshaw and D. M. Schneider (eds.), *"Proteins of the Nervous System"*, (2nd edition), Raven Press, NY (1980).
5. R. A. Bradshaw, R. L. Hill, J. Tang, C.-c. Liang, T.-c. Tsao, and C.-l Tsou (eds.), *"Proteins in Biology and Medicine"*, Academic Press, NY (1982).
6. R. A. Bradshaw and G. N. Gill (eds.), *"Evolution of Hormone-Receptor Systems"*, Alan R. Liss, NY (1983).
7. R. A. Bradshaw and J. Tang (eds), *"Molecular Architecture of Proteins and Enzymes"*, Academic Press, N.Y. (1985)
8. R. A. Bradshaw and S. Prentis (eds), *"Oncogenes and Growth Factors"*, Elsevier Science Publishers, Amsterdam (1987).
9. R. A. Bradshaw, L. McAlister-Henn and M. G. Douglas (eds.), *"Molecular Biology of Intracellular Protein Sorting and Organelle Assembly"*, Alan R. Liss, New York (1988).
10. R. A. Bradshaw and M. Purton (eds.), *"Proteins: Form and Function"*, Elsevier Trends Publications, Cambridge, UK, (1990).

11. R. A. Bradshaw and M. Purton (Series Editors), "*Modular Texts in Molecular and Cell Biology*", Chapman & Hall (Thompson Sciences), London, England, Vol. 1: C.H. Heldin & M. Purton (eds) "*Signal Transduction*" (1996).
12. R. A. Bradshaw and E. A. Dennis (Editors), "Handbook of Cell Signaling", Elsevier Academic Press, San Diego CA, Vol 1-3 (2003) (1st edition).
13. R. A. Bradshaw and E. A. Dennis (Editors), "Handbook of Cell Signaling" Elsevier Academic Press, San Diego CA, Vol 1-3 (2009) (2nd edition) .
14. R. A. Bradshaw and E. A. Dennis (Editors), "*Functioning of Transmembrane Receptors in Cell Signaling*", Elsevier Academic Press, San Diego CA, (2011), in press.
15. E. A. Dennis and R. A. Bradshaw (Editors), "*Transduction Mechanisms in Cellular Signaling*", Elsevier Academic Press, San Diego CA, (2011), in press.
16. R. A. Bradshaw and E. A. Dennis (Editors), "*Regulation of Organelle and Cell Compartment Signaling*" ,Elsevier Academic Press, San Diego CA, (2011), in press.
17. E.A.Dennis and R. A. Bradshaw (Editors), "*Intracellular Signaling in Development and Disease*", Elsevier Academic Press, San Diego CA, (2011), in press.

Commentaries, Editorials and Opinion Pieces

1. R. A. Bradshaw, "What Cloned Genes Can Tell Us about Nerve Growth Factor", Nature **303**, 751 (1983).
2. R. A. Bradshaw, "Fact, fraud and fantasy", Trends Biochem. Sci. **13**, 459 (1988).
3. R. A. Bradshaw, "A flavor of protein chemistry", Trends Biochem. Sci. **14**, 243 (1989).
4. R. A. Bradshaw, "Bridges committee procedures", Science **250**, 611 (1990).
5. R. A. Bradshaw, "All Good Things...", Trends Biochem. Sci. **16**, 449 (1991).
6. R. A. Bradshaw, "Who's on First?", Protein Sci. **1**, 561-562 (1992).
7. R. A. Bradshaw and D. Birnbaum, "The Name Game", Protein Sci. **2**, 1783-1784, (1993).
8. R. A. Bradshaw, "Merit, Quality and the SBIR". Science **272**, 1723 (1996).
9. R. A. Bradshaw, "Symposium on structure, function and evolution of glycoproteins and related molecules", Glycobiology **6**, 647 (1996).
10. R. A. Bradshaw, "Dancing to the Big Band: The Role of Government in the Support of Basic Research", Absts. 35th National Research Conf., Australian Society for Medical Research, Gold Coast, QLD, Australia, Plenary 1-1 (1996).
11. R. A. Bradshaw, "On Cabbages and Kings: the IUBMB – Problems and Prospects", Trends Biochem. Sci. **22**, 281 –82 (1997).
12. R. A. Bradshaw, D. S. Eisenberg, M. A. Hermodson, J. J. Villafranca, B. W. Matthews, and R. T. Sauer, "Thank you, Hans!", Protein Sci. **7**, 231 - 232 (1998).
13. R. L. Lundblad and R. A. Bradshaw, "Conformation of Engineered Proteins", Biotechnol. Appl. Biochem. **30**, 171-2 (1999).
14. R. A. Bradshaw and T. C. Vanaman, "Proteases in Cellular Regulation Minireview Series", J. Biol. Chem. **274**, 20047 (1999).
15. R. A. Bradshaw and J. Travis, "Special Issue in Honor of Hans Neurath's 90 Birthday" , Biochim. Biophys. Acta. **1477**, 1 (2000).
16. R. A. Bradshaw, "Proteomics – Boom or Bust?", Mol. Cell. Proteomics **1**, 177-178 (2002).
17. R. A. Bradshaw, "New Initiatives", Mol. Cell. Proteomics **1**, 489 (2002).
18. E. Schalles and R. A. Bradshaw, "Names, Names, Names...", Mol. Cell. Proteomics **1**, 921 (2002).
19. R. A. Bradshaw, A. L. Burlingame and J. E. Celis, "HUPO est arrive...", Mol. Cell. Proteomics **2**, 1 (2003).
20. R. A. Bradshaw, "Innovations with MCP", Mol. Cell. Proteomics **2**, 137 (2003).
21. R. A. Bradshaw, "A Visit to Africa", ASBMB Today, February, (2004), 12-15.

22. R. A. Bradshaw, “*Measuring Excellence*”, Mol. Cell. Proteomics 3, 745 (2004).
23. R. A. Bradshaw and A. L. Burlingame, “*Extracting Information from Proteomic Datasets*”, From Genome to Proteome: Biomarker Discovery & Imaging Proteomes (Absts. 6th Siena Mtg),xiv-xv (2004).
24. M. Baldwin, R. A. Bradshaw, A. Burlingame and S. Carr, “*MCP Hosts Protein Identification Workshop*” , ASBMB Today, July, (2005), 8-9.
25. R. A. Bradshaw, “*Revised draft guidelines for proteomic data publication*”, Mol. Cell. Proteomics 4, 1223-5 (2005).
26. R. A. Bradshaw, A. Burlingame, S. Carr, and R. Aebersold, “*Reporting Protein Identification Data: The Next Generation of Guidelines*”, Mol. Cell. Proteomics 5, 787 - 788. (2006).
27. R. A. Bradshaw and A. L. Burlingame, “*Welcome, HUPO*” Mol. Cell. Proteomics, 6, 951, (2007)
28. J. J. M. Bergeron and R. A. Bradshaw, “*What Has Proteomics Accomplished?*” Mol. Cell. Proteomics, 6, 1824-1826 (2007).
29. J. E. Celis, S. A. Carr, and R. A. Bradshaw, “*New Guidelines for Clinical Proteomics Manuscripts*” Mol. Cell. Proteomics 7, 2071-2072 (2008).
30. R. A. Bradshaw and A. L. Burlingame, “*Seven Years of Good Luck*” Mol. Cell. Proteomics, 9, 1 (2009).
31. R. A. Bradshaw and K. Medzihradszky, “*Modifications in the Mountains*” ASBMB Today, Jan (2009) 14-15.
32. R. A. Bradshaw, K. F. Medzihradszky and R. J. Chalkley, “*Protein PTMs: post-translational modifications or pesky trouble makers?*” J. Mass Spectrom 45, 1095-1097 (2010).
33. R. A. Bradshaw and A. L. Burlingame, “*Technological Innovation Revisited*” Mol. Cell. Proteomics, 9, 2335 -2336 (2010).

History Articles

1. R. A. Bradshaw, “*Clara Cynthia Benson (1875-1964)*”, ASBMB Today, March, (2006) 14-17.
2. R. A. Bradshaw, “*How I became a Biochemist*”, IUBMB Life 58, 495 – 498 (2006).

3. R. A. Bradshaw, C. C. Hancock, and N. Kresge, "*The First Hundred Years Are the Hardest*", ASBMB Today, May (2009), 12-13.
4. R. A. Bradshaw, C. C. Hancock, and N. Kresge, "*100 Years of the Chemistry of Life – The ASBMB Centennial History*" American Society for Biochemistry and Molecular Biology, Bethesda, MD (2009), 522pp.
5. R. A. Bradshaw, "*The Department of Biological Chemistry at Johns Hopkins University School of Medicine: 100 Years of Excellence*" ASBMB Today, July (2009), 18-20.
6. R. A. Bradshaw, "*The ASBMB Annual Meeting*", ASBMB Today Sept (2009) 22-25.

Original Articles and Reviews

1. L. Kanarek, E. Marler, R. A. Bradshaw, R. E. Fellows, and R. L. Hill, "*The Subunits of Fumarase*", J. Biol. Chem. 239, 4207-4211 (1964).
2. R. A. Bradshaw, L. A. Rogers, R. L. Hill, and J. Buettner-Janusch, "*Amino Acid Composition and the Amino Terminal End Groups of the α - and β -Chains of Four Lemur Hemoglobins*", Arch. Biochem. Biophys. 109, 571-578 (1965).

3. L. Kanarek, R. A. Bradshaw, and R. L. Hill, "*Regeneration of Active Enzyme from the Mixed Disulfide Derivative of Egg White Lysozyme and Cystine*", J. Biol. Chem. 240, PC 2755-PC 2757 (1965).
4. R. A. Bradshaw, "*I. Studies on the Structure of Fumarase. II. Preparation and Properties of the Mixed-Disulfide Derivative of Egg White Lysozyme and Cystine*", Ph.D. Thesis, Duke University (1966).
5. R. A. Bradshaw, L. Kanarek, and R. L. Hill, "*The Preparation, Properties, and Reactivation of the Mixed-Disulfide of Lysozyme and L-Cystine*", J. Biol. Chem. 242, 3789-3798 (1967).
6. G. W. Robinson, R. A. Bradshaw, L. Kanarek, and R. L. Hill, "*The Thiol Groups of Fumarase*", J. Biol. Chem. 242, 2709-2718 (1967).
7. W. T. Shearer, R. A. Bradshaw, F. R. N. Gurd, and T. Peters, "*The Amino Acid Sequence and Copper (II)-Binding Properties of Peptide (1-24) of Bovine Serum Albumin*", J. Biol. Chem. 242, 5451-5459 (1967).
8. K. D. Hapner, R. A. Bradshaw, C. R. Hartzell, and F. R. N. Gurd, "*Comparison of Myoglobins from Harbor Seal, Porpoise, and Sperm Whale. I. Preparation and Characterization*", J. Biol. Chem. 243, 683-689 (1968).
9. C. R. Hartzell, R. A. Bradshaw, K. D. Hapner, and F. R. N. Gurd, "*Comparison of Myoglobins from Harbor Seal, Porpoise, and Sperm Whale. II. Reactivity Toward Hydrogen Ion and Cupric Ion*", J. Biol. Chem. 243, 690-696 (1968).
10. R. L. Hill and R. A. Bradshaw, "*Fumarase*" in S.P. Colowick and N.O. Kaplan (eds.), Methods in Enzymology, (J. Lowenstein, ed.) Academic Press, New York, XIII, 91-99 (1969).
11. R. A. Bradshaw, W. T. Shearer, and F. R. N. Gurd, "*Sites of Binding Copper (II) Ion by Peptide (1-24) of Bovine Serum Albumin*", J. Biol. Chem. 243, 3817-3825 (1968).
12. R. A. Bradshaw, G. W. Robinson, G. M. Hass, and R. L. Hill, "*The Reaction of Fumarase with Iodoacetate and 4-Bromocrotonate*", J. Biol. Chem. 244, 1755-1763 (1969).
13. R. A. Bradshaw, W. H. Garner, and F. R. N. Gurd, "*Comparison of Myoglobins from Harbor Seal, Porpoise, and Sperm Whale. III. Isolation and Characterization of the Tryptic Peptides of Harbor Seal Myoglobin*", J. Biol. Chem. 244, 2149-2158 (1969).
14. R. A. Bradshaw, R. H. Kretsinger, and F. R. N. Gurd, "*Comparison of Myoglobins from Harbor Seal, Porpoise, and Sperm Whale. IV. Isolation and Characterization of the Tryptic Peptides of Porpoise Myoglobin*", J. Biol. Chem. 244, 2159-2166 (1969).
15. R. A. Bradshaw and F. R. N. Gurd, "*Comparison of Myoglobins from Harbor Seal, Porpoise, and Sperm Whale. V. The Complete Amino Acid Sequences of Harbor Seal and Porpoise Myoglobins*", J. Biol. Chem. 244, 2167-2181 (1969).
16. H. Neurath, R. A. Bradshaw, L. H. Ericsson, D. R. Babin, P. H. Pétra, and K. A. Walsh, "*Current Status of the Chemical Structure of Bovine Pancreatic Carboxypeptidase A*", Brookhaven Symposia in Biology, Vol. 21, 1-23 (1969).
17. M. Nomoto, N. G. Srinivasan, R. A. Bradshaw, R. D. Wade, and H. Neurath, "*The Amino Acid Sequence of Bovine Carboxypeptidase A. I. Preparation and Properties of the Fragments Obtained by Cyanogen Bromide Cleavage*", Biochemistry 8, 2755-2762 (1969).
18. R. R. Granberg, K. A. Walsh, and R. A. Bradshaw, "*Increased Output and Accelerated Analysis Time with the Automatic Amino Acid Analyzer*", Anal. Biochem. 30, 454-464 (1969).

19. D. A. Deranleau, R. A. Bradshaw, and R. Schwyzer, "*The Use of N-Methylnicotinamide Chloride as a Conformational Probe for Chicken Egg-White Lysozyme*", Proc. Natl. Acad. Sci. USA **63**, 885-889 (1969).
20. R. A. Bradshaw, H. Neurath, and K. A. Walsh, "*Considerations of the Concept of Structural Homology as Applied to Bovine Carboxypeptidases A and B*", Proc. Natl. Acad. Sci. USA **63**, 406-411 (1969).
21. H. Neurath, R. A. Bradshaw, P. H. Pétra, and K. A. Walsh, "*Bovine Carboxypeptidase A - Activation, Chemical Structure and Molecular Heterogeneity*", Phil. Trans. Roy. Soc. Lond., Series B **257**, 159-176 (1970).
22. R. A. Bradshaw and D. A. Deranleau, "*Use of N-Methylnicotinamide Chloride as a Conformational Probe in Proteins. Identification of the Binding Sites in Chicken Egg-White Lysozyme and a Comparison with Bovine α -Lactalbumin*", Biochemistry **9**, 3310-3315 (1970).
23. P. H. Pétra, R. A. Bradshaw, K. A. Walsh, and H. Neurath, "*Identification of the Amino Acid Replacements Characterizing the Allotypic Forms of Bovine Carboxypeptidase A*", Biochemistry **8**, 2762-2768 (1969).
24. R. A. Bradshaw, D. R. Babin, M. Nomoto, N. G. Srinivasan, L. H. Ericsson, K. A. Walsh, and H. Neurath, "*The Amino Acid Sequence of Bovine Carboxypeptidase A. II. Tryptic and Chymotryptic Peptides of the Cyanogen Bromide Fragment F_{III}*", Biochemistry **8**, 3859-3871 (1969).
25. R. A. Bradshaw, "*The Amino Acid Sequence of Bovine Carboxypeptidase A. III. Specificity of Peptide-Bond Cleavage by Thermolysin and the Complete Sequence of the Cyanogen Bromide Fragment F_{III}*", Biochemistry **8**, 3871-3877 (1969).
26. R. A. Bradshaw, K. A. Walsh and H. Neurath, "*Amino Acid Sequence of Bovine Carboxypeptidase A. Tryptic and Chymotryptic Peptides of the Cyanogen Bromide F_I*", Biochemistry **10**, 938-950 (1971).
27. R. A. Bradshaw, K. A. Walsh, and H. Neurath, "*Amino Acid Sequence of Carboxypeptidase A. Isolation and Characterization of the Thermolytic Peptides of the Cyanogen Fragment F_I*", Biochemistry **10**, 951-961 (1971).
28. R. A. Bradshaw, K. A. Walsh, and H. Neurath, "*Amino Acid Sequence of Carboxypeptidase A. Isolation and Characterization of Selected Peptic and Nagarse Peptides and the Complete Sequence of Fragment F_I*", Biochemistry **10**, 961-972 (1971).
29. R. A. Bradshaw, H. Neurath, R. W. Tye, K. A. Walsh, and W. P. Winter, "*Comparison of the Partial Amino-Acid Sequence of Dogfish Trypsinogen with Bovine Trypsinogen*", Nature **226**, 237-239 (1970).
30. K. A. Walsh, L. H. Ericsson, R. A. Bradshaw, and H. Neurath, "*Chemical Evidence of a Disulfide Bond in Bovine Carboxypeptidase A*", Biochemistry **9**, 219-225 (1970).
31. K. A. Walsh, R. M. McDonald, and R. A. Bradshaw, "*Automatic Systems for Detecting Cystine and Cystinyl Peptides During Column Chromatography*", Anal. Biochem. **35**, 193-202 (1970).
32. R. A. Bradshaw, L. H. Ericsson, K. A. Walsh, and H. Neurath, "*The Amino Acid Sequence of Bovine Carboxypeptidase A*", Proc. Natl. Acad. Sci. USA **63**, 1389-1394 (1969).
33. H. Neurath, R. A. Bradshaw, and R. Arnon, "*Homology and Phylogeny of Proteolytic Enzymes*", Structure-Function Relationships of Proteolytic Enzymes, (P. Desnuelle, H. Neurath, and M. Ottesen, eds.) Academic Press, 113-134 (1970).
34. R. A. Bradshaw and T. Peters, Jr., "*The Amino Acid Sequence of Peptide (1-24) of Rat and Human Serum Albumins*", J. Biol. Chem. **244**, 5582-5589 (1969).
35. H. Neurath and R. A. Bradshaw, "*Evolution of Proteolytic Function*", Accounts of Chemical Research **3**, 249-257 (1970).

36. R. H. Angeletti, R. A. Bradshaw, and R. D. Wade, "*Subunit Structure and Amino Acid Composition of Mouse Submaxillary Gland Nerve Growth Factor*", Biochemistry **10**, 463-469 (1971).
37. T. M. Radhakrishnan, R. A. Bradshaw, D. A. Deranleau, and H. Neurath, "*The Solution Conformation of Bovine Carboxypeptidase A: Reaction with 2-Hydroxy-5-Nitrobenzyl Bromide and N-Methylnicotinamide Chloride*", FEBS Letters **7**, 72-76 (1970).
38. R. H. Angeletti and R. A. Bradshaw, "*Nerve Growth Factor from Mouse Submaxillary Gland: Amino Acid Sequence*", Proc. Natl. Acad. Sci. USA **68**, 2417-2420 (1971).
39. R. H. Angeletti, W. A. Frazier, and R. A. Bradshaw, "*Structural Studies of 2.5S Mouse Submaxillary Gland Nerve Growth Factors*", Functional and Structural Proteins of the Nervous System, (A.N. Davison, P. Mandel, and I.G. Morgan, eds.), Advances in Experimental Medicine and Biology **32**, 99-106 (1972).
40. R. H. Kretsinger, C. E. Nockolds, C. J. Coffee, and R. A. Bradshaw, "*The Structure of a Calcium-binding Protein from Carp Muscle*", Cold Spring Harbor Symp. Quant. Biol. **XXXVI**, 217-220 (1971).
41. C. J. Coffee, R. A. Bradshaw, B. R. Goldin, and C. Frieden, "*Identification of the Sites of Modification of Bovine Liver Glutamate Dehydrogenase Reacted with Trinitrobenzene-sulfonate*", Biochemistry **10**, 3516-3526 (1971).
42. E. P. Schulenburg, E. S. Simms, R. G. Lynch, R. A. Bradshaw, and H. N. Eisen, "*Amino Acid Sequence of the Light Chain from a Mouse Myeloma Protein with Anti-Hapten Activity: Evidence for a Third Type of Light Chain*", Proc. Natl. Acad. Sci. USA **68**, 2623-2626 (1971).
43. R. H. Angeletti and R. A. Bradshaw, "*The Amino Acid Sequence of 2.5S Nerve Growth Factor from the Mouse Submaxillary Gland*", Nerve Growth Factor and its Antiserum (E. Zaimis, ed.) Athlone Press, London, 35-38 (1972).
44. C. E. Nockolds, R. H. Kretsinger, C. J. Coffee, and R. A. Bradshaw, "*The Structure of a Calcium-binding Carp Myogen*", Proc. Natl. Acad. Sci. USA **69**, 581-584 (1972).
45. B. E. Glatthaar, L. J. Banaszak, and R. A. Bradshaw, "*The Identification of an Asymmetric Complex of Nicotinamide Adenine Dinucleotide and Pig Heart Cytoplasmic Malate Dehydrogenase*", Biochem. Biophys. Res. Comm. **46**, 757-765 (1972).
46. E. T. Yin, C. Galanos, S. Kinsky, R. A. Bradshaw, S. Wessler, O. Luderitz, and M. E. Sarmiento, "*Picogram-Sensitive Assay for Endotoxin: Gelation of Limulus polyphemus Blood Cell Lysate Induced by Purified Lipopolysaccharides and Lipid A from Gram-Negative Bacteria*", Biochim. Biophys. Acta **261**, 284-289 (1972).
47. W. A. Frazier, R. H. Angeletti, and R.A. Bradshaw, "*Nerve Growth Factor and Insulin*", Science **176**, 482-488 (1972).
48. W. Birchmeier, B. E. Glatthaar, K. W. Winterhalter, and R. A. Bradshaw, "*The Thiol Groups of Human Hemoglobin Carrying Heme Only on the α -Chains*", Eur. J. Biochem. **28**, 533-537 (1972).
49. W. R. Waddell, R. A. Bradshaw, M. N. Goldstein, and W. M. Kirsch, "*Production of Human Nerve-Growth Factor in a Patient with a Liposarcoma*", The Lancet June 24, 1365-1367 (1972).
50. R. A. Bradshaw, W. A. Frazier, and R. H. Angeletti, "*A Comparison of the Structural and Functional Properties of Nerve Growth Factor and Insulin*", Chemistry and Biology of Peptides, Proc. of the 3rd American Peptide Symp. (J. Meienhofer, ed.) Ann Arbor Science Publishers, Inc. 423-439 (1972).
51. D. A. K. Roncari, R. A. Bradshaw, and P. R. Vagelos, "*Acyl Carrier Protein XIX. Amino Acid Sequence of Liver Fatty Acid Synthetase Peptides Containing 4'-Phospho-pantetheine*", J. Biol. Chem. **247**, 6234-6242 (1972).

52. R. H. Angeletti, D. Mercanti, and R. A. Bradshaw, "Amino Acid Sequences of Mouse 2.5S Nerve Growth Factor. I. Isolation and Characterization of the Soluble Tryptic and Chymotryptic Peptides", Biochemistry **12**, 90-100 (1973).
53. R. H. Angeletti, M. A. Hermodsen, and R. A. Bradshaw, "Amino Acid Sequences of Mouse 2.5S Nerve Growth Factor. II. Isolation and Characterization of the Thermolytic and Peptic Peptides and the Complete Covalent Structure", Biochemistry **12**, 100-115 (1973).
54. H. G. Lebherz, R. A. Bradshaw, and W. J. Rutter, "Structural Comparisons between the Class I Fructose Diphosphate Aldolases from Micrococcus aerogenes and Rabbit", J. Biol. Chem. **248**, 1660-1665 (1973).
55. C. J. Coffee and R. A. Bradshaw, "Carp Muscle Calcium-Binding Protein. I. Characterization of the Tryptic Peptides and the Complete Amino Acid Sequence of Component B", J. Biol. Chem. **248**, 3305-3312 (1973).
56. B. E. Noyes and R. A. Bradshaw, "L-3-Hydroxyacyl Coenzyme A Dehydrogenase from Pig Heart Muscle. I. Purification and Properties", J. Biol. Chem. **248**, 3052-3059 (1973).
57. B. E. Noyes and R. A. Bradshaw, "L-3-Hydroxyacyl Coenzyme A Dehydrogenase from Pig Heart Muscle. II. Subunit Structure", J. Biol. Chem. **248**, 3060-3066 (1973).
58. A. Z. Eisen, K. O. Henderson, J. J. Jeffrey, and R.A. Bradshaw, "A Collagenolytic Protease from the Hepatopancreas of the Fiddler Crab, Uca pugilator. Purification and Properties", Biochemistry **12**, 1814 -1822 (1973).
59. P. U. Angeletti, R. A. Hogue-Angeletti, W. A. Frazier, and R. A. Bradshaw, "Nerve Growth Factor", Proteins of the Nervous System (D. Schneider, R. Hogue-Angeletti, R.A. Bradshaw, A. Grasso, and B.W. Moore, eds.) Raven Press 133-154 (1973).
60. W. A. Frazier, R. H. Angeletti, R. Sherman, and R. A. Bradshaw, "Topography of Mouse 2.5S Nerve Growth Factor. Reactivity of Tyrosine and Tryptophan", Biochemistry **12**, 3281-3293 (1973).
61. W. A. Frazier, C. E. Ohlendorf, L. F. Boyd, L. Aloe, E. M. Johnson, J. A. Ferrendelli, and R. A. Bradshaw, "Mechanism of Action of Nerve Growth Factor and Cyclic AMP on Neurite Outgrowth in Embryonic Chick Sensory Ganglia: Demonstration of Independent Pathways of Stimulation", Proc. Natl. Acad. Sci. USA **70**, 2448-2452 (1973).
62. P. M. Kelley, P. A. Neumann, K. Shriefer, F. Cancedda, M. J. Schlesinger, and R. A. Bradshaw, "Amino Acid Sequence of Escherichia coli Alkaline Phosphatase. Amino- and Carboxyl-Terminal Sequences and Variations between Two Isozymes", Biochemistry **12**, 3499-3503 (1973).
63. W. A. Frazier, L. F. Boyd, and R. A. Bradshaw, "Interaction of Nerve Growth Factor with Surface Membranes: Biological Competence of Insolubilized Nerve Growth Factor", Proc. Natl. Acad. Sci. USA **70**, 2931-2935 (1973).
64. R. H. Kretsinger, P. C. Moews, C. J. Coffee, and R. A. Bradshaw, "The Coordination of Calcium Ions by Carp Muscle Calcium Binding Protein", Calcium Binding Proteins (W. Drabikowski, H. Strzelecka-Golaszewska, and E. Carafoli, eds.) Elsevier Scientific Publishing Co., Amsterdam, 703-720 (1974).
65. R. A. Bradshaw, R. A. Hogue-Angeletti, and W. A. Frazier, "Nerve Growth Factor and Insulin: Evidence of Similarities in Structure, Function and Mechanism of Action", Recent Prog. Hormone Res. (Proc. of the Laurentian Hormone Conf.) **30**, 575-595 (1974).
66. B. E. Glatthaar, G. R. Barbarash, B. E. Noyes, L. J. Banaszak, and R. A. Bradshaw, "The Preparation of the Cytoplasmic and Mitochondrial Forms of Malate Dehydrogenase and Aspartate Aminotransferase from Pig Heart by a Single Procedure", Anal. Biochem. **57**, 432-451 (1974).

67. E. S. Dugan, R. A. Bradshaw, E. S. Simms, and H. N. Eisen, "Amino Acid Sequence of the Light Chain of a Mouse Myeloma Protein (MOPC-315)", Biochemistry **12**, 5400-5416 (1973).
68. B. E. Noyes, B. E. Glatthaar, J. S. Garavelli, and R. A. Bradshaw, "Structural and Functional Similarities Between Mitochondrial Malate Dehydrogenase and L-3-Hydroxyacyl CoA Dehydrogenase", Proc. Natl. Acad. Sci. USA **71**, 1334-1338 (1974).
69. R. A. Bradshaw and B. E. Noyes, "L-3-Hydroxyacyl Coenzyme A Dehydrogenase from Pig Heart Muscle", Methods in Enzymology **XXXV**, 122-128 (1974).
70. R. Hogue-Angeletti, R. A. Bradshaw, and G. R. Marshall, "The Synthesis and Characterization of the Amino-Terminal Octapeptide of Mouse Nerve Growth Factor", Int. J. Pep. Prot. Res. **6**, 321-328 (1974).
71. W. A. Frazier, L. F. Boyd, A. Szutowicz, M. W. Pulliam, and R. A. Bradshaw, "Specific Binding Sites for ^{125}I -Nerve Growth Factor in Peripheral Tissues and Brain", Biochem. Biophys. Res. Comm. **57**, 1096-1103 (1974).
72. W. A. Frazier, L. F. Boyd, and R. A. Bradshaw, "Properties of the Specific Binding of ^{125}I -Nerve Growth Factor to Responsive Peripheral Neurons", J. Biol. Chem. **249**, 5513-5519 (1974).
73. C. J. Coffee, R. A. Bradshaw, and R. H. Kretsinger, "The Coordination of Calcium Ions by Carp Muscle Calcium Binding Proteins A, B and C", Protein-Metal Interactions, Adv. in Experimental Medicine and Biology (M. Friedman, ed.) Plenum Press, NY, 211-233 (1974).
74. L. F. Boyd, R. A. Bradshaw, W. A. Frazier, R. A. Hogue-Angeletti, I. Jeng, M. W. Pulliam, and A. Szutowicz, "Minireview - Nerve Growth Factor", Life Sciences **15**, 1381-1391 (1974).
75. A. D. Borsodi, R. A. Bradshaw, I. K. Rughani, and R. M. Bruce, "Structural and Functional Relationships of Human Antithrombin III and Alpha I-Antitrypsin", Heparin: Structure, Function and Clinical Implications, (R. A. Bradshaw and S. Wessler, eds.) Adv. in Exp. Med. and Biol., Plenum Press, NY, Vol. 52, 249-253 (1975).
76. W. A. Frazier, L. F. Boyd, M. W. Pulliam, A. Szutowicz, and R. A. Bradshaw, "Properties and Specificity of Binding Sites for ^{125}I -Nerve Growth Factor in Embryonic Heart and Brain", J. Biol. Chem. **249**, 5918-5923 (1974).
77. R. A. Hogue-Angeletti, R. A. Bradshaw, and W. A. Frazier, "Nerve Growth Factor: Structure and Mechanism of Action", Adv. in Metabolic Disorders, Vol. 8, Somatomedins and Some Other Growth Factors" (R. Luft and K. Hall, eds.) Academic Press, NY, 285-299 (1975).
78. L. Banaszak and R. A. Bradshaw, "Malate Dehydrogenases", The Enzymes (Third Edition) (P. D. Boyer, ed.) Academic Press, NY, XI, 369-396 (1975).
79. M. Weininger, B. E. Noyes, R. A. Bradshaw, and L. J. Banaszak, "L-3-Hydroxyacyl Coenzyme A Dehydrogenase: Crystallographic Properties of the Pig Heart Enzyme", J. Mol. Biol. **90**, 409-413 (1974).
80. R. Merrell, M. W. Pulliam, L. Randon, L. F. Boyd, R. A. Bradshaw, and L. Glaser, "Temporal Changes in Tectal Cell Surface Specificity Induced by Nerve Growth Factor", Proc. Natl. Acad. Sci. USA **72**, 4270-4274 (1975).
81. R. A. Bradshaw, W. A. Frazier, M. W. Pulliam, A. Szutowicz, I. Jeng, R. A. Hogue-Angeletti, L. F. Boyd, and R. E. Silverman, "Structure-Function Relationships of Nerve Growth Factor and Insulin", Proc. 6th Int. Cong. of Pharmacology Vol. 2, "Neurotransmission" (J. Tuomisto and M. K. Paasonen, eds.) 231-238 (1975).
82. R. A. Hogue-Angeletti, W. A. Frazier, J. W. Jacobs, H. D. Niall, and R. A. Bradshaw, "Purification, Characterization and Partial Amino Acid Sequence of Nerve Growth Factor from Cobra Venom", Biochemistry **15**, 26-34 (1976).

83. A. C. Server, K. Herrup, E. M. Shooter, R. A. Hogue-Angeletti, W. A. Frazier, and R. A. Bradshaw, "Comparison of the Nerve Growth Factor Proteins from Cobra Venom (*Naja naja*) and Mouse Submaxillary Gland", Biochemistry **15**, 35-39 (1976).
84. M. W. Pulliam, L.F. Boyd, N.C. Baglan, and RA. Bradshaw, "Specific Binding of Covalently Cross-linked Mouse Nerve Growth Factor to Responsive Peripheral Neurons", Biochem. Biophys. Res. Comm. **67**, 1281-1289 (1975).
85. A. Szutowicz, W. A. Frazier, and R. A. Bradshaw, "Subcellular Localization of Nerve Growth Factor Receptors: Thirteen Day Chick Embryo Brain", J. Biol. Chem. **251**, 1516-1523 (1976).
86. A. Szutowicz, W. A. Frazier, and R. A. Bradshaw, "Subcellular Localization of Nerve Growth Factor Receptors: Developmental Correlations in Chick Embryo Brain", J. Biol. Chem. **251**, 1524-1528 (1976).
87. R. A. Bradshaw and M. Young, "Nerve Growth Factor - Recent Developments and Perspectives", Biochemical Pharm. **25**, 1445-1449 (1976).
88. G. Schonfeld, R. A. Bradshaw, and J.-S. Chen, "Structure of High Density Lipoprotein: The Immunologic Reactivities of the COOH- and NH₂ -Terminal Regions of Apolipoprotein A-I", J. Biol. Chem. **251**, 3921-3926 (1976).
89. K. T. Lazarus, R. A. Bradshaw, N. R. West, and R. P. Bunge, "Adaptive Survival of Rat Sympathetic Neurons Cultured Without Supporting Cells or Exogenous Nerve Growth Factor", Brain Research **113**, 159-164 (1976).
90. R. A. Bradshaw, M. W. Pulliam, I. M. Jeng, R. Y. Andres, A. Szutowicz, W. A. Frazier, R. A. Hogue-Angeletti, and R. E. Silverman, "Specific Interaction of Nerve Growth Factor with Receptors in the Central and Peripheral Nervous Systems", Surface Membrane Receptors: Interface Between Cells and Their Environment (R. A. Bradshaw, W.A. Frazier, R. C. Merrell, D. I. Gottlieb, and R. A. Hogue-Angeletti, eds.) Plenum Press, NY, 227-246 (1976).
91. L. Glaser, R. Merrell, D. I. Gottlieb, D. Littman, M. W. Pulliam and R. A. Bradshaw, "Neuronal Cell Adhesion", Surface Membrane Receptors: Interface Between Cells and Their Environment (R. A. Bradshaw, W. A. Frazier, R. C. Merrell, D. I. Gottlieb and R. A. Hogue-Angeletti, eds.) Plenum Press, NY, 109-131 (1976).
92. R. A. Bradshaw, I. Jeng, R. Y. Andres, M. W. Pulliam, R. E. Silverman, J. Rubin, and J. W. Jacobs, "The Structure and Function of Nerve Growth Factor", Endocrinology, Proc. of the Vth International Congress of Endocrinology, (V.H.T. James, ed.) Excerpta Medica, Amsterdam, Vol. 2, 206-212 (1977).
93. R. A. Bradshaw and W. A. Frazier, "Hormone Receptors as Regulators of Hormone Action", Current Topics in Cellular Regulation (B.L. Horecker and E.R. Stadtman, eds.) Academic Press, Inc., NY, Vol. 12, 1-37 (1977).
94. R. A. Hogue-Angeletti and R. A. Bradshaw, "Nerve Growth Factor in Snake Venoms", Snake Venoms (C.Y. Lee, ed.) Handbook of Experimental Pharmacology, Springer-Verlag, Berlin, Vol. 52, 276-294 (1979).
95. L. M. Keefer and R. A. Bradshaw, "Structural Studies on *Halobacterium halobium* Bacteriorhodopsin", Fed. Proc. **36**, 1799-1804 (1977).
96. M. . Sutton, R. R. Fall, A. M. Nervi, A. W. Alberts, P. R. Vagelos and R. A. Bradshaw, "Amino Acid Sequence of *Escherichia coli* Biotin Carboxyl Carrier Protein (9100)", J. Biol. Chem. **252**, 3934-3940 (1977).

97. I. Jeng and R. A. Bradshaw, "*The Preparation of Nerve Growth Factor*", Research Methods in Neurochemistry, (N. Marks and R. Rodnight, eds.) Plenum Pub. Corp., New York, NY, Vol. 4, 265-288 (1978).
98. A. D. Borsodi and R. A. Bradshaw, "*Isolation of Antithrombin III from Normal and α -1-Antitrypsin-deficient Human Plasma*", Thrombosis and Haemostasis, **38**, 475-485 (1977).
99. R. Y. Andres, I. Jeng, and R. A. Bradshaw, "*Nerve Growth Factor Receptors: Identification of Distinct Classes in Plasma Membranes and Nuclei of Embryonic Dorsal Root Neurons*", Proc. Natl. Acad. Sci. USA **74**, 2785-2789 (1977).
100. R. Y. Andres and R. A. Bradshaw, "*Nerve Growth Factor*", Biochemistry of Brain (S. Kumar, ed.) Pergamon Press, Ltd., Oxford, 545-562 (1980).
101. R. A. Bradshaw, "*Nerve Growth Factor*", Annu. Rev. Biochem. **47**, 191-216 (1978).
102. R. W. Hogg, H. Ishihara, M. A. Hermodson, D. Koshland, Jr., J. W. Jacobs, and R. A. Bradshaw, "*A Comparison of the Amino-terminal Sequences of Several Carbohydrate Binding Proteins from *Escherichia coli* and *Salmonella typhimurium**", FEBS Letters **80**, 377-379 (1977).
103. R. A. Bradshaw and H. D. Niall, "*Insulin-Related Growth Factors*", Proc. 6th Asia and Oceania Congress of Endocrinology, (C. J. Seng et al, eds.) Singapore, Vol. 1, 358-364 (1978).
104. G. A. Grant, L. M. Keefer, and R. A. Bradshaw, "*D-3-Phosphoglycerate Dehydrogenase from Chicken Liver. I. Purification*", J. Biol. Chem. **253**, 2724-2726 (1978).
105. G. A. Grant and R. A. Bradshaw, "*D-3-Phosphoglycerate Dehydrogenase from Chicken Liver. II. Chemical and Physical Properties*", J. Biol. Chem. **253**, 2727-2731 (1978).
106. E. M. Johnson, Jr., R. Y. Andres, and R. A. Bradshaw, "*Characterization of Retrograde Transport of Nerve Growth Factor (NGF) Using High Specific Activity [125 I]NGF*", Brain Res. **150**, 319-331 (1978).
107. M. R. Sutton and R. A. Bradshaw, "*Identification of Dansyl Dipeptides in the Dansyl-Edman Peptide Degradation*", Anal. Biochem. **88**, 344-346 (1978).
108. H. D. Niall, R. A. Bradshaw, and G. D. Bryant-Greenwood, "*Relaxin: An Insulin-Related Growth Factor*", Transmembrane Signaling, Proc. of the ICN-UCLA Symposium (R. J. Collier, D. F. Steiner, M. Bitensky, and C. F. Fox, eds.) Alan R. Liss, Inc., New York, NY, 651-658 (1979).
109. S. F. Cramer, R. A. Bradshaw, N. C. Baglan, and J. A. Meyers, "*Nerve Growth Factor in Medullary Carcinoma of the Thyroid*", Human Pathol. **10**, 731-736 (1979).
110. W. H. Daughaday, I. K. Mariz, J. S. Daniels, J. W. Jacobs, J. S. Rubin, and R. A. Bradshaw, "*Studies on Rat Somatomedin*", Somatomedins and Growth, Proc. of the Serono Symp. (G. Giordano, J. J. Van Wyk, and F. Minuto, eds.) Academic Press, NY, Vol. 23, 25-29 (1979).
111. R. A. Bradshaw and H. D. Niall, "*Insulin-Related Growth Factors*", Trends in Biochemical Sciences **3**, 274-278 (1978).
112. J. W. Jacobs, J. S. Rubin, T. E. Hugli, R. A. Bogardt, I. K. Mariz, J. S. Daniels, W. H. Daughaday, and R. A. Bradshaw, "*Purification, Characterization and Amino Acid Sequence of Rat Anaphylatoxin (C3a)*", Biochemistry **17**, 5031-5038 (1978).
113. I. Jeng, R. Y. Andres, and R. A. Bradshaw, "*Mouse Nerve Growth Factor: A Rapid Isolation Procedure for the α and γ Subunits*", Anal. Biochem. **92**, 482-488 (1979).

114. E. M. Johnson, Jr., R. A. Macia, R. Y. Andres, and R. A. Bradshaw, "The Effects of Drugs Which Destroy the Sympathetic Nervous System on the Retrograde Transport of Nerve Growth Factor", Brain Res. 171, 461-472 (1979).
115. J. W. Jacobs, I. K. Mariz, W. H. Daughaday, and R. A. Bradshaw, "Characterization of the Binding of a Rat Somatomedin to Receptors in Human Placental Cell Membranes", Biochem. Biophys. Res. Comm. 86, 869-876 (1979).
116. E. M. Johnson, Jr., H. M. Blumberg, N. V. Costrini, and R. A. Bradshaw, "Reduction by Reserpine of the Accumulation of Retrogradely Transported ^{125}I -Nerve Growth Factor in Sympathetic Neurons", Brain Res. 178, 389-401 (1979).
117. N. V. Costrini and R. A. Bradshaw, "Binding Characteristics and Apparent Molecular Size of Detergent-Solubilized Nerve Growth Factor Receptor of Sympathetic Ganglia", Proc. Natl. Acad. Sci. USA 76, 3242-3245 (1979).
118. G. W. Hart, K. Brew, G. A. Grant, R. A. Bradshaw, and W. J. Lennarz, "Primary Structural Requirements for the Enzymatic Formation of the N-Glycosidic Bond in Glycoproteins. Studies with Natural and Synthetic Peptides", J. Biol. Chem. 254, 9747-9753 (1979).
119. R. A. Bradshaw and N. V. Costrini, "Nerve Growth Factor: Structure, Function and Mechanism of Action", Growth and Growth Factors, (Japan Med. Res. Foundation, ed.) Univ. of Tokyo Press, Tokyo, 233- 252 (1980).
120. W. H. Daughaday, J. W. Jacobs, I. K. Mariz, and R. A. Bradshaw, "A Comparison of the Binding Properties of Rat Somatomedin and MSA: Evidence for Multiple Somatomedin Peptides in the Rat", Growth and Growth Factors, (Japan Med. Res. Foundation, ed.) Univ. of Tokyo Press, Tokyo, 85-101 (1980).
121. J. R. Benson, P. C. Louie, and R. A. Bradshaw, "Amino Acid Analysis of Peptides", The Peptides-Analysis, Synthesis and Biology (E. Gross and J. Meienhofer, eds.) Academic Press, NY, Vol. 4, 217-260 (1981).
122. R. A. Bradshaw, N. V. Costrini, K. A. Thomas, and J. S. Rubin, "Structure-Function Studies on Nerve Growth Factor and Its Cell Surface Receptor", Frontiers of Protein Chemistry, (T. Y. Liu, G. Mamiya, and K. T. Yasunobu, eds.) Elsevier, New York, 447-461 (1980).
123. N. V. Costrini, M. Kogan, K. Kukreja, and R. A. Bradshaw, "Physical Properties of the Detergent-extracted Nerve Growth Factor Receptor of Sympathetic Ganglia", J. Biol. Chem. 254, 11242-11246 (1979).
124. G. G. Dodson, N. Isaacs, R. A. Bradshaw, and H. D. Niall, "Possible Relationships in the Processing, Storage and Secretion of Some Insulin Related Peptides", Insulin: Chemistry, Structure and Function of Insulin and Related Hormones, (D. Brandenburg and A. Wollmer, eds.) Walter de Gruyter Pub., Berlin (1980) 695-701.
125. R. A. Bradshaw, O. J. Bates, and J. R. Benson, "Peptide Separations on Substituted Polystyrene Resins: Effect of Cross-Linkage", J. Chromatog. 187, 27-33 (1980).
126. H. D. Niall, M. John, R. James, S. Kwok, R. Mercado, G. Bryant-Greenwood, R. A. Bradshaw, M. Gast, and I. Boime, "Structural Studies on Porcine Relaxins and Their Biosynthetic Precursors", Insulin: Chemistry, Structure and Function of Insulin and Related Hormones, (D. Brandenburg and A. Wollmer, eds.) Walter de Gruyter, Pub., Berlin, 719-726 (1980).
127. H. Oyama, R. A. Bradshaw, O. J. Bates, and A. Permutt, "Amino Acid Sequence of Catfish Pancreatic Somatostatin I", J. Biol. Chem. 255, 2251-2254 (1980).
128. K. A. Thomas and R. A. Bradshaw, "Nerve Growth Factor", Proteins of the Nervous System (2nd Edition), (R. A. Bradshaw and D. M. Schneider, eds.) Raven Press, NY, 213-230 (1980).

129. R. A. Bradshaw, "Nerve Growth Factor, Relaxin and the Somatomedins: The Insulin-Related Growth Factors", Endocrinology 1980 (Proc. VIth Int. Cong. of Endocrinology), (I. A. Cumming, J. W. Funder, and F. A. O. Mendelsohn, eds.) Australian Acad. Sci., Canberra, Australia, 532-535 (1980).
130. K. A. Thomas, M. C. Riley, S. K. Lemmon, N. C. Baglan, and R. A. Bradshaw, "Brain Fibroblast Growth Factor: Non-identity with Myelin Basic Protein Fragments", J. Biol. Chem. 255, 5517-5520 (1980).
131. R. A. Bradshaw, "Insulin-Related Growth Factors", Protides of Biological Fluids, (H. Peeters, ed.) Pergamon Press, Oxford, Vol. 28, 165-168 (1980).
132. R. A. Bradshaw, G. A. Grant, K. A. Thomas, and A. Z. Eisen, "Mouse NGF γ Subunit and Crab Collagenase: Two Serine Proteases of Unusual Function", Protides of Biological Fluids, (H. Peeters, ed.) Pergamon Press, Oxford, Vol. 28, 119-122 (1980).
133. H. D. Niall, R. James, M. John, J. Walsh, S. Kwok, G. D. Bryant- Greenwood, G. W. Tregear, and R. A. Bradshaw, "Chemical Studies on Relaxin", Relaxin (R. R. Anderson, ed.) Plenum Pub. Corp., NY, 163-173 (1982).
134. K. G. Bitar, A. Perez-Aranda, and R. A. Bradshaw, "Amino Acid Sequence of L-3-Hydroxyacyl CoA Dehydrogenase from Pig Heart Muscle", FEBS Letters 116, 196-198 (1980).
135. G. A. Grant, K. O. Henderson, A. Z. Eisen, and R. A. Bradshaw, "Amino Acid Sequence of a Collagenolytic Protease from the Hepatopancreas of the Fiddler Crab, Uca pugilator", Biochemistry 19, 4653-4659 (1980).
136. R. A. Bradshaw and J. S. Rubin, "Polypeptide Growth Factors: Some Structural and Mechanistic Considerations", J. Supramolecular Struct. 14, 183-199 (1980); Control of Cellular Division and Development (Part A), (D. D. Cunningham, E. Goldwasser, J. Watson, and C. F. Fox eds.) Alan Liss, Inc., NY, 193-209 (1981).
137. G. E. Chapman, K. M. Rogers, T. Brittain, R. A. Bradshaw, O. J. Bates, C. Turner, P. D. Cary, and C. Crane-Robinson, "The 20,000 Molecular Weight Variant of Human Growth Hormone: Preparation and Some Physical and Chemical Properties", J. Biol. Chem. 256, 2395-2401 (1981).
138. J. P. Coghlan, P. J. Considine, D. A. Denton, D. T. W. Fei, L. G. Leksell, M. J. McKinley, A. F. Muller, E. Tarjan, R. S. Weisinger, and R. A. Bradshaw, "Sodium Appetite in Sheep Induced by Cerebral Ventricular Angiotensin-Comparison with Sodium Deficiency", Science 214, 195-197 (1981).
139. R. A. Bradshaw, F. Cancedda, L. H. Ericsson, P. A. Neumann, S. P. Piccoli, M. J. Schlesinger, K. Shriefer, and K. A. Walsh, "Amino Acid Sequence of Escherichia coli Alkaline Phosphatase", Proc. Natl. Acad. Sci. USA 78, 3473-3477 (1981).
140. G. A. Grant, A. Z. Eisen, and R. A. Bradshaw, "Collagenolytic Protease from Fiddler Crabs (Uca pugilator)", Methods in Enzymology (L. Lorand, ed.) 80, 722-734 (1981).
141. K. A. Thomas and R. A. Bradshaw, " γ -Subunit of Mouse Submaxillary Gland 7S Nerve Growth Factor: An Endopeptidase of the Serine Family", Methods in Enzymology (L. Lorand, ed.) 80, 609-620 (1981).
142. K. A. Thomas, R. E. Silverman, I. Jeng, N. C. Baglan, and R. A. Bradshaw, "Electrophoretic Heterogeneity and Polypeptide Chain Structure of the γ -Subunit of Mouse Submaxillary 7S Nerve Growth Factor", J. Biol. Chem. 256, 9147-9155 (1981).
143. K. A. Thomas, N. C. Baglan, and R. A. Bradshaw, "The Amino Acid Sequence of the γ -Subunit of Mouse Submaxillary Gland 7S Nerve Growth Factor", J. Biol. Chem. 256, 9156-9166 (1981).

144. R. T. Fernley, S. R. Lentz, and R. A. Bradshaw, "*Malate Dehydrogenase: Isolation from E. coli and Comparison with the Eukaryotic Mitochondrial and Cytoplasmic Forms*", Bioscience Reports **1**, 497-507 (1981).
145. J. Massague, B. J. Guillette, M. P. Czech, C. J. Morgan, and R. A. Bradshaw, "*Identification of a Nerve Growth Factor Receptor Protein in Sympathetic Ganglia Membranes by Affinity Labeling*", J. Biol. Chem. **256**, 9419-9424 (1981).
146. J. S. Rubin and R. A. Bradshaw, "*Isolation and Partial Amino Acid Sequence Analysis of Nerve Growth Factor From the Guinea Pig Prostate*", J. Neuroscience Res. **6**, 451-464 (1981).
147. R. A. Bradshaw, N. V. Costrini, C. J. Morgan, J. F. Tait, and S. A. Weinman, "*The Interaction of Nerve Growth Factor with Peripheral Neurons: Properties of the Plasma Membrane Receptor*", Proteins in the Nervous System: Structure and Function, (B. Haber, J. R. Perez- Polo, and J. D. Coulter, eds.) Alan R. Liss, NY, 271-283 (1982).
148. J. E. Tait, S. A. Weinman, and R. A. Bradshaw, "*Dissociation Kinetics of ¹²⁵I-Nerve Growth Factor from Cell Surface Receptors: Acceleration by Unlabeled Ligand and Its Relationship to Negative Cooperativity*", J. Biol. Chem. **256**, 11086-11092 (1981).
149. J. J. Birktoft, R. T. Fernley, R. A. Bradshaw, and L. J. Banaszak, "*The Interactions of NAD/NADH with 2-Hydroxy Acid Dehydrogenases*", Molecular Structure and Biological Activity (J. F. Griffen and W. L. Duax, eds.) Elsevier/North Holland, NY, 37-54 (1982).
150. R. A. Bradshaw, "*Structure, Function and Evolution of Insulin-Related Polypeptides*", Proteins in Biology and Medicine (R. A. Bradshaw, R. L. Hill, J. Tang, C.-c. Liang, T.-c. Tsao, and C.-l Tsou, eds.) Academic Press, NY, 1-13 (1982).
151. R. A. Bradshaw, C. J. Morgan, J. Massague, M. P. Czech, N. V. Costrini, J. F. Tait, and S. A. Weinman, "*Receptors for Nerve Growth Factor in Responsive Peripheral Neurons*", Nervous System Regeneration" (B. Haber, J. R. Perez-Polo, G. A. Hashim, and A. M. Giuffrida- Stella, eds.) Alan R. Liss, Inc., NY, 47-59 (1983).
152. J. S. Rubin, I. Mariz, J. W. Jacobs, W. H. Daughaday, and R. A. Bradshaw, "*Isolation and Partial Sequence Analysis of Rat Basic Somatomedin*", Endocrinology **110**, 734-740 (1982).
153. G. J. Markelonis, R. A. Bradshaw, T. H. Oh, J. L. Johnson, and O. J. Bates, "*Sciatin is a Transferrin-Like Polypeptide*", J. Neurochem. **39**, 315-320 (1982).
154. R. James, H. D. Niall, and R. A. Bradshaw, "*The Topography of Porcine Relaxin: Location of the Tryptophan Residues*", Relaxin (R. R. Anderson, ed.) Plenum Pub. Corp., New York, 175-177 (1982).
155. R. A. Bradshaw, "*Relaxin and the Insulin-Related Growth Factors*", Relaxin (G. D. Bryant-Greenwood, H. D. Niall, and F. C. Greenwood, eds.) Elsevier-North Holland, Inc., Amsterdam, 11-16 (1981).
156. M. J. John, J. R. Walsh, R. J. James, S. Kwok, G. D. Bryant-Greenwood, R. A. Bradshaw, and H. D. Niall, "*Heterogeneity of Porcine Relaxin*", Relaxin (G. D. Bryant-Greenwood, H. D. Niall, and F. C. Greenwood, eds.) Elsevier-North Holland, Inc., Amsterdam, 17-19 (1981).
157. R. James, H. D. Niall, and R. A. Bradshaw, "*The Topographical Mapping of Porcine Relaxin: Location of the Tryptophan Residues*", Relaxin (G. D. Bryant-Greenwood, H. D. Niall, and F. C. Greenwood, eds.) Elsevier-North Holland, Inc., Amsterdam, 85-91 (1981).
158. J. J. Birktoft, R. T. Fernley, R. A. Bradshaw, and L. J. Banaszak, "*Amino Acid Sequence Homology Among the 2-hydroxy Acid Dehydrogenases. Mitochondrial and Cytoplasmic Malate Dehydrogenases Form a Homologous System with Lactate Dehydrogenase*", Proc. Natl. Acad. Sci. USA **79**, 6166-6170 (1982).

159. S. K. Lemmon, M. C. Riley, K. A. Thomas, G. A. Hoover, T. Maciag, and R. A. Bradshaw, "*Bovine Fibroblast Growth Factor: Comparison of Brain and Pituitary Preparations*", J. Cell. Biol. 95, 162-169 (1982).
160. S. K. Lemmon and R. A. Bradshaw, "*Purification and Partial Characterization of Bovine Pituitary Fibroblast Growth Factor*", J. Cellular Biochem. 21, 195-208 (1983).
161. R. E. Silverman and R. A. Bradshaw, "*Nerve Growth Factor: Subunit Interactions in the Mouse Submaxillary Gland 7S Complex*", J. Neuroscience Res. 8, 127-136 (1982).
162. R. A. Bradshaw, "*Nerve Growth Factor and Related Hormones*", Biochemical Actions of Hormones, (G. Litwack, ed.) Academic Press, NY, Vol. X, 91-114 (1983).
163. R. A. Bradshaw and N. V. Costrini, "*The Structure and Function of Nerve Growth Factor*", Growth and Maturation Factors, (G. Guroff, ed.) John Wiley and Sons, Inc., NY, Vol. 1, 1-30 (1983).
164. G. L. Murdock, C.-C. Chin, R. E. Offord, R. A. Bradshaw, and J. C. Warren, "*Human Placental Estradiol 17 β -Dehydrogenase: Identification of a Single Histidine Residue Affinity-Labeled by Both 3-Bromoacetoxyesterone and 12 β -Bromoacetoxy-4-estrene-3, 17-dione*", J. Biol. Chem. 258, 11460-11464 (1983).
165. R. A. Bradshaw, and M. B. Sporn, "*Polypeptide Growth Factors and the Regulation of Cell Growth and Differentiation: Introduction*", Fed. Proc. 42, 2590-2591 (1983).
166. K. D. Hapner, R. N. Kouchalakos and R. A. Bradshaw, "*Sainfoin Lectin Structure*", Chemical Taxonomy, Molecular Biology and Function of Plant Lectins (I. J. Goldstein and M. E. Etzhar, eds.) Alan R. Liss, Inc. NY, 255-258 (1983).
167. R. A. Bradshaw, "*Regulation of Cell Growth by Polypeptide Factors: Agents of the Nervous System*", Peptides: Structure and Function (V. J. Hruby and D. H. Rich, eds.) Pierce Chemical Co., Rockford, IL, 641-645 (1983).
168. J. S. Rubin and R. A. Bradshaw, "*Preparation of Guinea Pig Prostate Epidermal Growth Factor*", Methods for Preparation of Media, Supplements and Substrata for Serum Free Animal Cell Culture (eds. D. W. Barnes, D. A. Sirbasku and G. H. Sato) Alan R. Liss, Inc., New York, Vol. 1, 139-145 (1984).
169. S. K. Lemmon and R. A. Bradshaw, "*Preparation of Bovine Pituitary Fibroblast Growth Factor*", Methods for Serum Free Culture of Epithelial and Fibroblastic Cells (eds. D. W. Barnes, D. A. Sirbasku and G. H. Sato) Alan R. Liss, Inc., New York, Vol. 3, 199-207 (1984).
170. H. G. Lebherz, O. J. Bates and R. A. Bradshaw, "*Cellular Fructose-P₂ Aldolase has a Derivatized (Blocked) NH₂-terminus*", J. Biol. Chem. 259, 1132-1135 (1984).
171. H. G. Lebherz, M. A. Leadbetter and R. A. Bradshaw, "*Isolation and Characterization of the Cytosolic and Chloroplast Forms of Spinach Leaf Fructose Diphosphate Aldolase*", J. Biol. Chem. 259, 1011-1017 (1984).
172. R. James and R. A. Bradshaw, "*Polypeptide Growth Factors*", Ann. Rev. Biochem. 53, 259-292 (1984).
173. R. N. Kouchalakos, O. J. Bates, R. A. Bradshaw, and K. D. Hapner "*Lectin from Sainfoin (*Onobrychis viciifolia* Scop.). Complete Amino Acid Sequence*", Biochemistry 23, 1824-1830 (1984).
174. P. J. Isackson and R. A. Bradshaw, "*The α -Subunit of Mouse 7S Nerve Growth Factor Is an Inactive Serine Protease*", J. Biol. Chem. 259, 5380-5383 (1984).

175. J. H. Fallon, K. B. Seroogy, S. E. Loughlin, R. S. Morrison, R. A. Bradshaw, D. J. Knauer and D. D. Cunningham, "*Epidermal Growth Factor-Immunoreactive Material in the Central Nervous System: Location and Development*", Science 224, 1107-1109 (1984).
176. R. A. Bradshaw, J. C. Dunbar, P. J. Isackson, R. N. Kouchalacos and C. J. Morgan, "*Nerve Growth Factor: Mechanism of Action*", Mediators in Cell Growth and Differentiation (R. J. Ford and A. L. Maizel, eds.) Raven Press, NY 87-101 (1985).
177. R. James and R. A. Bradshaw, "*Strand Separation of DNA Fragments and Their Isolation from Nondenaturing Polyacrylamide Gels*", Anal. Biochem. 140, 456-458 (1984).
178. P. J. Isackson, A. Ullrich, and R. A. Bradshaw, "*Mouse 7S Nerve Growth Factor: Complete Sequence of a cDNA Coding for the α -Subunit Precursor and Its Relationship to Serine Proteases*", Biochemistry 23, 5997-6002 (1984).
179. J.-k. Fang, J. W. Jacobs, B. I. Kanner, E. Racker and R. A. Bradshaw, "*Amino Acid Sequence of Bovine Heart Coupling Factor 6*", Proc. Natl. Acad. Sci. USA 81, 6603-6607 (1984).
180. R. A. Bradshaw, J. C. Dunbar, L. K. Gowan, P. J. Isackson, R. N. Kouchalacos and R. S. Morrison, "*Growth and Maintenance of Cells in the Nervous System: Regulation by Polypeptide Factors*", Growth and Differentiation of Cells in Defined Environments (H. Murakami, I. Yamane, D. W. Barnes, J. P. Mather, I. Hayashi and G. H. Sato, eds.), Kodansha, Tokyo/Springer-Verlag, Heidelberg, (1985) 289-294.
181. J. C. Dunbar, G. W. Tregear and R. A. Bradshaw, "*Histidine Residue Modification Inhibits Binding of Murine β Nerve Growth Factor to Its Receptor*", J. Prot. Chem. 3, 349-356 (1984).
182. P. J. Isackson, J. C. Dunbar, A. Ullrich and R. A. Bradshaw "*The Structure of Murine 7S Nerve Growth Factor: Implications for Biosynthesis*", Int. J. Neuroscience 26, 95-108 (1985).
183. C. J. Morgan and R. A. Bradshaw, "*Production of a Monoclonal Antibody Directed Against the Nerve Growth Factor Receptor from Sympathetic Membranes*", J. Cell. Biochem. 27, 121-132 (1985).
184. R. S. Morrison, J. De Vellis, Y. L. Lee, R. A. Bradshaw and L. F. Eng, "*Hormones and Growth Factors Induce the Synthesis of Glial Fibrillary Acidic Protein in Rat Brain Astrocytes*", J. Neurosci. Res. 14: 167-176 (1985).
185. J. C. Dunbar and R. A. Bradshaw, "*Nerve Growth Factor Biosynthesis: Isolation and Characterization of a Guinea Pig Prostate Kallikrein*", J. Cell. Biochem. 29, 309-319 (1985).
186. R. S. Morrison, A. Sharma, J. de Vellis, and R. A. Bradshaw, "*Basic Fibroblast Growth Factor Supports the Survival of Cerebral Cortical Neurons in Primary Culture*", Proc. Natl. Acad. Sci. USA 83, 7537-7541 (1986).
187. E. G. Jones, S. H. C. Hendry, P. Isackson and R. A. Bradshaw "*Approaches to the Study of Gene Expression in the Monkey Cerebral Cortex by Means of *In Situ* Probes*", In Situ Hybridization: Applications to Neurobiology (K. Valentino, J. H. Eberwine, and J. D. Barchas, eds.) Oxford, University Press, New York. (1987) 229-234.
188. P. J. Isackson, J. C. Dunbar, and R. A. Bradshaw "*Role of Glandular Kallikreins as Growth Factor Processing Enzymes: Structural and Evolutionary Considerations*", J. Cell. Biochem. 33, 65-75 (1987).
189. R. N. Kouchalacos and R. A. Bradshaw, "*Nerve Growth Factor Receptor from Rabbit Sympathetic Ganglia Membranes: Relationship between Subforms*", J. Biol. Chem. 261, 16054-16059 (1986).
190. P. J. Isackson, S. J. Nisco, and R. A. Bradshaw, "*Expression of the Alpha Subunit of 7S Nerve Growth Factor in the Mouse Submandibular Gland*", Neurochemical Research 12, 959-966 (1987).

191. P. J. Isackson, R. E. Silverman, M. Blaber, A. C. Server, R. A. Nichols, E. M. Shooter, and R. A. Bradshaw "Epidermal Growth Factor Binding Protein: Identification of a Different Protein", Biochemistry **26**, 2082-2085 (1987).
192. R. A. Bradshaw, "The Control of Cell Growth: The Role of Polypeptide Growth Factors and Oncogene Products", Oncogenes and Growth Factors (R. A. Bradshaw and S. Prentis, eds.). Elsevier Publishing Co., Amsterdam, xi-xvi (1987).
193. J. C. Dunbar and R. A. Bradshaw "Amino Acid Sequence of Guinea Pig Prostate Kallikrein", Biochemistry **26**, 3471-3478 (1987).
194. J. J. Birktoft, R. A. Bradshaw, and L. J. Banaszak, "Structure of Porcine Heart Cytoplasmic Malate Dehydrogenase: Combining X-ray Diffraction and Chemical Sequence Data in Structural Studies", Biochemistry **26**, 2722-2734 (1987).
195. L. McAlister-Henn, M. Blaber, R. A. Bradshaw, and S. J. Nisco, "Complete Nucleotide Sequence of the *Escherichia coli* Gene Encoding Malate Dehydrogenase", Nucleic Acids Research **15**, 4993 (1987).
196. M. Blaber, P. J. Isackson, and R. A. Bradshaw, "A Complete cDNA Sequence for the Major Epidermal Growth Factor Binding Protein in the Male Mouse Submandibular Gland", Biochemistry **26**, 6742-6749 (1987).
197. S. Huang, R. C. Elliott, P.-S. Lui, R. K. Koduri, J. L. Weickmann, J.-H. Lee, L. C. Blair, P. Ghosh Dastidar, R. A. Bradshaw, K. M. Bryan, B. Einarson, R. L. Kendall, K. H. Kolacz, and K. Saito, "Specificity of Cotranslational Amino-Terminal Processing of Proteins in Yeast", Biochemistry **26**, 8242-8246 (1987).
198. R. S. Morrison. H. I. Kornblum, F. M. Leslie and R. A. Bradshaw, "Trophic Stimulation of Cultured Neurons from Neonatal Rat Brain by Epidermal Growth Factor", Science **238**, 72-75 (1987).
199. M. Blaber, R. A. Blevins, K. A. Thomas, P. J. Isackson and R. A. Bradshaw, "Epidermal Growth Factor Binding Protein: A Model Serine Protease for Enzyme Engineering", Protein Structure, Folding, and Design **2** (D. L. Oxender, ed.) Alan R. Liss, N.Y. 131-142 (1987).
200. R. A. Bradshaw, M. Blaber, K. Cavanaugh, D. D. Eveleth, P. J. Isackson, H. I. Kornblum, F. Leslie, R. S. Morrison, M. Schwarz, and A. Sharma, "Neurotrophic Factors of the Central Nervous System: Synthesis and Activities", Neuronal Plasticity and Trophic Factors (Symposia in Neuroscience, Vol. 7) (G. Biggio, P. F. Spano, G. Toffano, S. H. Appel and G. L. Gessa, eds) Liviana Press-Springer Verlag Padona-Berlin, 9-22 (1988).
201. M. Blaber, D. D. Eveleth and R. A. Bradshaw, "Purification of the Nerve Growth Factor Receptor", Nerve Growth Factors (R. Rush, ed) Wiley-Interscience, Chichester 279-298 (1989).
202. S. M. Arfin and R. A. Bradshaw, "Cotranslational Processing and Protein Turnover in Eukaryotic Cells", Biochemistry **27**, 7979-7984 (1988).
203. M. A. Schwarz, P. J. Brown, D. D. Eveleth, and R. A. Bradshaw, "Modulation of Growth Factor Induced Fiber Outgrowth in Rat Pheochromocytoma (PC12) Cells by a Fibronectin Receptor Antibody", J. Cell. Physiol. **138**, 121-128 (1989).
204. S. Raffioni, P. Luporini, B. T. Chait, S. . Disper and R. A. Bradshaw, "Primary Structure of the Mating Pheromone *Er-1* of the Ciliate *Euplotes raikovi*", J. Biol. Chem. **263**, 18152-18159 (1988).
205. M. A. Schwarz, D. Fisher, R. A. Bradshaw and P. J. Isackson, "Isolation and Sequence of a cDNA Clone of β -Nerve Growth Factor from the Guinea Pig Prostate Gland", J. Neurochem. **52**, 1203-1209 (1989).

206. D. D. Eveleth and R. A. Bradshaw, "Internalization and Cycling of Nerve Growth Factor in PC12 Cells: Interconversions on Type II (Fast) and Type I (Slow) Nerve Growth Factor Receptors", Neuron, **1**, 929-936 (1988).
207. R. A. Bradshaw and K. P. Cavanaugh, "Isolation and Characterization of Growth Factors", Peptide Growth Factors and their Receptors I (M. B. Sporn and A. B. Roberts, eds.) Handbook of Experimental Pharmacology 95/I, Springer-Verlag, Berlin (1990) 17-36.
208. S. Raffioni, P. Luporini, and R. A. Bradshaw, "Purification, Characterization and Amino Acid Sequence of the Mating Pheromone Er-10 of the Ciliate Euplotes raikovi", Biochemistry **28**, 5250-5255 (1989).
209. R. A. Bradshaw, "Protein Translocation and Turnover in Eukaryotic Cells," Trends Biochem. Sci. **14**, 276-279 (1989).
210. D. D. Eveleth, R. Hanecak, G. M. Fox, H. Fan, and R. A. Bradshaw, " γ -src Genes Stimulate Neurite Outgrowth in Pheochromocytoma (PC12) Variants Unresponsive to Neurotrophic Factors", J. Neurosci. Res. **24**, 67-71 (1989).
211. M. Blaber, P. J. Isackson, J. C. Marsters, Jr., J. P. Burnier and R. A. Bradshaw, "Substrate Specificities of Growth Factor Associated Kallikreins of the Mouse Submandibular Gland", Biochemistry **28**, 7813-7819 (1989).
212. R. A. Bradshaw, J. G. Altin, M. Blaber, K. Cavanaugh, D. D. Eveleth, H. I. Kornblum, F. M. Leslie, and S. Raffioni "Neurotrophic Factors in the CNS: Biosynthetic Processing and Functional Responses", Molecular and Cellular Mechanisms of Neuronal Plasticity and Aging in Alzheimer's Disease (Progress in Brain Research, Vol 86) Elsevier Publishers, N.Y., 157-167 (1990).
213. R. L. Kendall, R. Yamada, and R. A. Bradshaw "Co-translational Amino Terminal Processing", Methods in Enzymology (Gene Expression Technology, D. V. Goeddel, ed.) **185**, 398-407 (1990).
214. M. Blaber, P. J. Isackson and R. A. Bradshaw "Glandular Kallikreins as Growth Factor Processing Enzymes", Growth Regulation and Carcinogenesis (W. R. Paukovits, ed.) CRC-Uniscience, Vol. II, 179-198 (1991).
215. K. P. Cavanaugh, D. Gurwitz, D. D. Cunningham and R. A. Bradshaw "Reciprocal Modulation of Astrocyte Stellation by Thrombin and Protease Nexin-1", J. Neurochem. **54**, 1735-1743 (1990).
216. J. G. Altin and R. A. Bradshaw, "Production of 1,2-Diacylglycerol in PC12 Cells by Nerve Growth Factor and Basic Fibroblast Growth Factor", J. Neurochem. **54**, 1666-1676 (1990).
217. M. Blaber, P. J. Isackson, and R. A. Bradshaw, "The Characterization of Recombinant Mouse Glandular Kallikreins From E. coli", Proteins: Structure, Function and Genetics **7**, 280-290 (1990).
218. R. A. Bradshaw, S. Raffioni, P. Luporini, B. Chait, T. Lee, and J. Shively, "Amino Acid Sequence/Mass Spectrometer Analyses of Mating Pheromones of the Ciliate Euplotes raikovi", Analytical Biotechnology: Capillary Electrophoresis and Chromatography (C. Horvath and J. G. Nikelly, eds.) ACS Symposium Series #434, Washington D.C. 153-161 (1990).
219. S. Raffioni, R. A. Bradshaw, and P. Luporini, "Amino Acid Sequence Analysis of Mating Pheromones of the Ciliate Euplotes raikovi", Zoological Sciences **7**, 97- 101 (1990).
220. C. Ortenzi, C. Miceli, R. A. Bradshaw, and P. Luporini, "Identification and Initial Characterization of an Autocrine Pheromone Receptor in the Ciliate Euplotes raikovi", J. Cell. Biol. **111**, 607-614 (1990).
221. R. A. Bradshaw, J. G. Altin, D. D. Eveleth, H. R. Herschman, D. Kujubu, and S. Raffioni, "Polypeptide Growth Factors: Receptor Structure and Mechanism of Action", Contributions to Cellular and

- Molecular Endocrinology (H. L. Henry and A. N. Norman, eds.) (Proc. of the 12th Annual Univ. Cal. Riverside-Nichols Inst. Symp) 22-34 (1990).
222. S. Sinha, H. F. Dovey, P. Seubert, P. J. Ward, R. W. Blacher, M. Blaber, R. A. Bradshaw, M. Arici, W. C. Mobley, and I. Lieberburg, "*The Protease Inhibitory Properties of the Alzheimer's β -Amyloid Precursor Protein*", J. Biol. Chem. **265**, 8983-8985 (1990).
 223. H. I. Kornblum, H. K. Raymon, R. S. Morrison, K. P. Cavanaugh, R. A. Bradshaw, and F. M. Leslie, "*Epidermal Growth Factor and Basic Fibroblast Growth Factor: Effects on an Overlapping Population of Neocortical Neurons in vitro*", Brain Res. **535**, 255-263 (1990).
 224. D. Anderson, S. Raffioni, P. Loporini, R. A. Bradshaw and D. Eisenberg, "*Crystallization of the Euplotes raikovi Mating Pheromone Er-1*", J. Mol. Biol. **216**, 1-2 (1990).
 225. J. G. Altin, R. Wetts and R. A. Bradshaw, "*Microinjection of a p21ras Antibody into PC12 Cells Inhibits Neurite Outgrowth Induced by Nerve Growth Factor and Basic Fibroblast Growth Factor*", Growth Factors **4**, 145-155 (1991).
 226. R. Yamada and R. A. Bradshaw, "*Rat Liver Polysome N α -Acetyltransferase: Isolation and Characterization*", Biochemistry **30**, 1010-1016 (1991).
 227. R. Yamada and R. A. Bradshaw, "*Rat Liver Polysome N α -Acetyltransferase: Substrate Specificity*", Biochemistry (1990) **30**, 1017-1021 (1991).
 228. J. G. Altin, D. A. Kujubu, S. Raffioni, D. D. Eveleth, H. R. Herschman, and R. A. Bradshaw, "*Differential Induction of Primary-response (TIS) Genes in PC12 Pheochromocytoma Cells and the Unresponsive Variant PC12nnr5*", J. Biol. Chem. **266**, 5401-5406 (1991).
 229. B. Boilly, K. P. Cavanaugh, D. Thomas, H. Hondermarck, S. V. Bryant and R. A. Bradshaw, "*Acidic Fibroblast Growth Factor is Present in Regenerating Limb Blastemas of Axolotls and Binds Specifically to Blastema Tissues*", Dev. Biol. **145**, 302-310 (1991).
 230. M. S. Pessin, J. G. Altin, M. Jarpe, F. Tansley, R. A. Bradshaw and D. M. Raben, "*Carbachol Stimulates a Different Phospholipid Metabolism Than Nerve Growth Factor and Basic Fibroblast Growth Factor in PC12 Cells*", Cell Regulation **2**, 383-390 (1991).
 231. C. Miceli, A. La Terza, R. A. Bradshaw, and P. Loporini, "*Structural Characterization of Mating Pheromone precursors of the ciliate protozoan Euplotes raikovi*", Eur.J.Biochem. **202**, 759-764 (1991).
 232. J. H. Fallon, J. DiSalvo, S. E. Loughlin, G. Gimenez-Gallego, K. B. Seroogy, R. A. Bradshaw, R. S. Morrison, P. Ciofi, and K. A. Thomas, "*Localization of Acidic Fibroblast Growth Factor within the Mouse Brain Using Biochemical and Immunocytochemical Techniques*", Growth Factors, **6**, 139-157 (1992).
 233. J. G. Altin and R. A. Bradshaw, "*Nerve Growth Factor and Related Substances: Structure and Mechanism of Action*", Neurotrophic Factors (J. H. Fallon and S. E. Loughlin, eds.) Academic Press, San Diego, 129-180 (1993).
 234. C. Miceli, A. La Terza, R. A. Bradshaw and P. Loporini, "*Identification and Structural Characterization of a cDNA Clone Encoding a Membrane-bound Form of the Polypeptide Pheromone Er-1 in the Ciliate Protozoan Euplotes raikovi*", Proc.Natl.Acad.Sci. USA **89**, 1988-1992 (1992).
 235. S. Raffioni, C. Miceli, A. Vallesi, S. K. Chowdhury, B. T. Chait, P. Loporini, and R. A. Bradshaw, "*Primary Structure of Euplotes raikovi Pheromones: Comparison of Five Sequences of Pheromones from Cells with Variable Mating Interactions*", Proc.Natl.Acad.Sci. USA **89**, 2071-2075 (1992).
 236. J. G. Altin, R. Wetts, K. T. Riabowol and R. A. Bradshaw, "*Testing the In Vivo Role of Protein Kinase C and c-Fos in Neurite Outgrowth by Microinjection of Antibodies into PC12 Cells*", Molecular Biology of the Cell, **3**, 323-333 (1992).

237. D. D. Eveleth and R. A. Bradshaw, "Nerve Growth Factor Nonresponsive Pheochromocytoma Cells: Altered Internalization Results in Signaling Dysfunction", J. Cell. Biol. **117**, 291-299 (1992).
238. A. E. Stewart, S. Raffioni, T. Chaudhary, B. T. Chait, P. Luporini, and R. A. Bradshaw, "The Disulfide Bond Pairing of the Pheromones *Er-1* and *Er-2* of the Ciliated Protozoan *Euplotes raikovi*", Prot. Sci. **1**, 777-785 (1992).
239. S. Raffioni and R. A. Bradshaw, "Activation of Phosphatidylinositol 3-Kinase by Epidermal Growth Factor, Basic Fibroblast Growth Factor and Nerve Growth Factor in PC12 Pheochromocytoma Cells", Proc. Nat'l. Acad. Sci. **89**, USA, 9121-9125 (1992).
240. R. L. Kendall and R. A. Bradshaw, "Isolation and Characterization of the Methionine Aminopeptidase from Porcine Liver Responsible for the Co-translational Processing of Proteins", J. Biol. Chem. **267**, 20667-20673 (1992).
241. T. Berg, R. A. Bradshaw, O. A. Carretero, J. Chao, L. Chao, J. A. Clements, M. Fahnstock, H. Fritz, F. Gauthier, R. J. MacDonald, H. S. Margolius, B. J. Morris, R. I. Richards, and A. G. Scicli, "A Common Nomenclature for Members of the Tissue (Glandular) Kallikrein Gene Families", Recent Progress on Kinins: Biochemistry and Molecular Biology of the Kallikrein-Kinin System. Agents and Actions Supplements (H. Fritz, W. Müller-Esterl, M. Jochum, A. Roscher, and K. Luppertz, (eds)), Birkhäuser Verlag, Basel, Vol I, 19-25 (1992).
242. H. Hondermarck, J. Sy, R. A. Bradshaw, S. M. Arfin, "Dipeptide Inhibitors of Ubiquitin-Mediated Protein Turnover Prevent Growth Factor-induced Neurite Outgrowth in Rat Pheochromocytoma PC12 Cells", Biochem. Biophys. Res. Comm. **189**, 280-288 (1992).
243. R. A. Bradshaw, T. L. Blundell, R. Lapatto, N. Q. McDonald, and J. Murray-Rust, "Nerve Growth Factor Revisited", Trends in Biochem. Sci. **18**, 48-52 (1993).
244. Y. Y. Wu and R. A. Bradshaw, "Effect of Nerve Growth Factor and Fibroblast Growth Factor on PC12 cells: Inhibition by Orthovanadate", J. Cell Biol. **121**, 409-422 (1993).
245. S. Raffioni, S. E. Buxser, and R. A. Bradshaw, "The Receptors for Nerve Growth Factor and Other Neurotrophins", Ann. Rev. Biochem. **62**, 823-850 (1993).
246. L. R. Brown, S. Mronga, R. A. Bradshaw, C. Ortenzi, P. Luporini, and K. Wüthrich, "Nuclear Magnetic Resonance Solution Structure of the Pheromone *Er-10* from the Ciliated Protozoan *Euplotes raikovi*", J. Mol. Biol. **231**, 800-816 (1993).
247. R. A. Bradshaw, "Neurotrophic Factors: Diversities in Structure, Function and Mechanism of Action", in Molecular and Cellular Mechanisms of Neural-Immune Interactions, Discussions in Neuroscience IX 3/4, 85-94 (1993).
248. M. Blaber, P. J. Isackson, J. P. Burnier, J. C. Marsters, Jr. and R. A. Bradshaw, "Synthetic Chimeras of Mouse Growth Factor-Associated Glandular Kallikreins. I. Kinetic Properties", Prot. Sci. **2**, 1210-1219 (1993).
249. M. Blaber, P. J. Isackson, H. M. Holden, and R. A. Bradshaw, "Synthetic Chimeras of Mouse Growth Factor Associated Glandular Kallikreins. II. Growth Factor Binding Properties", Prot. Sci. **2**, 1220-1228 (1993).
250. R. A. Bradshaw, R. Fujii, H. Hondermarck, S. Raffioni, Y. Wu, and M. A. Yarski, "Polypeptide Growth Factors: Structure, Function and Mechanism of Action", Pure and Applied Chemistry, **66**, 9-14 (1993); Protein Structure-Function Relationship (Z. H. Zaidi, A. Abbasi, and D.L. Smith, eds.) TWEL Publishers, Karachi, 15-26 (1993).

251. J. Murray-Rust, N. Q. McDonald, T. L. Blundell, M. Hosang, C. Oefner, F. Winkler, and R. A. Bradshaw, "Topological Similarities in TGF- β 2, PDGF-BB, and NGF Define a Superfamily of Polypeptide Growth Factors", Structure **1**, 153-159 (1993).
252. R. A. Bradshaw and A. E. Stewart, "Analysis of Protein Modifications: Recent Advances in Detection, Characterization and Mapping", Current Opinion in Biotechnology **5**, 85-93 (1994).
253. P. Luporini, A. Vallesi, C. Miceli and R. A. Bradshaw, "Ciliate Pheromones as Early Growth Factors and Cytokines" in Primordial Immunity: Foundations for Vertebrate Immune Systems (G. Beck, E. L. Cooper, G. S. Habicht, and J. J. Marchalonis, eds.) Ann. N.Y. Acad. Sci. **712**, 195-206 (1994).
254. A. Obermeier, R. A. Bradshaw, K. Seedorf, A. Choidas, J. Schlessinger, and A. Ullrich, "Neuronal Differentiation Signals are Controlled by Nerve Growth Factor Receptor/Trk Binding Sites for SHC and PLC γ ", EMBO J. **13**, 1585-1590 (1994).
255. M. Ottiger, T. Szyperski, P. Luginbühl, C. Ortenzi, P. Luporini, R. A. Bradshaw and K. Wüthrich, "The NMR Solution Structure of the Pheromone Er-2 from the Ciliated Protozoan Euplotes raikovi", Prot. Sci. **3**, 1515-1526 (1994).
256. S. Mronga, P. Luginbühl, L. R. Brown, C. Ortenzi, P. Luporini, R. A. Bradshaw and K. Wüthrich, "The NMR Solution Structure of the Pheromone Er-1 from the Ciliated Protozoan Euplotes raikovi", Prot.Sci. **3**, 1527-1536 (1994).
257. H. Hondermarck, C. S. McLaughlin, S. D. Patterson and R. A. Bradshaw, "Early Changes in Protein Synthesis Induced by Basic Fibroblast Growth Factor, Nerve Growth Factor, and Epidermal Growth Factor in PC12 Pheochromocytoma Cells", Proc. Natl. Acad. Sci. U.S. **91**, 9377-9381 (1994).
258. A. E. Stewart, S. M. Arfin and R. A. Bradshaw, "Protein NH₂ -terminal Asparagine Deamidase: Isolation and Characterization of a New Enzyme", J. Biol. Chem. **269**, 23509-23517 (1994).
259. R. A. Bradshaw, J. Murray-Rust, C. F. Ibanez, N. Q. McDonald, R. Lapatto and T. L. Blundell, "Nerve Growth Factor: Structure/Function Relationships", Prot. Sci., **3**, 1901-1913 (1994).
260. R. A. Bradshaw, J. Sy, A. E. Stewart, R. L. Kendall, H. Hondermarck and S. M. Arfin, "Co-translational Modification, Stability and Turnover of Eukaryotic Proteins", Biological Membranes: Structure, Biogenesis and Dynamics (Nato ASI Series, Vol. H 82) (J. A. F. Op den Kamp, ed.), Springer-Verlag, Berlin, 155-167 (1994).
261. A. E. Stewart, S. M. Arfin and R. A. Bradshaw, "The Sequence of Porcine Protein NH₂ -terminal Asparagine Amidohydrolase. A New Component of the N-End Rule Pathway", J. Biol. Chem. **270**, 25-28 (1995).
262. Y. Y. Wu and R. A. Bradshaw, "PC12-E2 Cells: A Stable Variant with Altered Responses to Growth Factor Stimulation", J. Cell. Physiol. **164**, 522-532 (1995).
263. R. A. Bradshaw, "Growth Factors" in Comprehensive Human Physiology: From Cellular Mechanisms to Integration (R. Greger and U. Windhorst, eds) Springer-Verlag, Berlin Heidelberg, Vol. 1 431-450 (1996).
264. P. Luporini, A. Vallesi, C. Miceli and R. A. Bradshaw, "Chemical Signaling in Ciliates," J. Eukaryotic Microbiol. **42**, 208-212 (1995).
265. A. Obermeier, R. A. Bradshaw, K. Seedorf, A. Choidas, J. Schlessinger and A. Ullrich, "Definition of Signals for Neuronal Differentiation", Ann. N.Y. Acad. Sci. **766**, 1-17 (1995).
266. S. Raffioni and R. A. Bradshaw, "Staurosporine Causes Epidermal Growth Factor to Induce Differentiation in PC12 Cells via Receptor Up-regulation", J. Biol. Chem. **270**, 7568-7572 (1995).

267. S. M. Arfin and R. A. Bradshaw, “*Mechanisms of Regulated Intracellular Protein Degradation*”, The Encyclopedia of Molecular Biology: Fundamentals and Applications. VCH Verlags gMBH, Weinham, Germany, 346-354 (1995).
268. S. M. Arfin, R. L. Kendall, L. Hall, L. H. Weaver, A. E. Stewart, B. W. Matthews and R. A. Bradshaw, “*Eukaryotic Methionyl Aminopeptidases: Two Classes of Cobalt-dependent Enzymes*”, Proc. Natl. Acad. Sci. USA 92, 7714-7718 (1995).
269. A. Vallesi, G. Giuli, R. A. Bradshaw, and P. Luporini, “*Autocrine Mitogenic Activity of Pheromones Produced by the Protozoan Ciliate Euplotes raikovi*”, Nature 376, 522-524 (1995).
270. R. A. Bradshaw and H. Hondermarck, “*Nerve Growth Factor Receptors*”, Biomembranes, (A. G. Lee, ed) JAI Press, Inc., Greenwich, Vol. 6, 177-196 (1996).
271. M. S. Weiss, D. H. Anderson, S. Raffioni, R. A. Bradshaw, C. Ortenzi, P. Luporini, and D. Eisenberg, “*A Cooperative Model for Receptor Recognition and Cell Adhesion: Evidence from the Molecular Packing in the 1.6Å Crystal Structure of the Pheromone Er-1, from the Ciliated Protozoan Euplotes raikovi*”, Proc. Natl. Acad. Sci. USA 92, 10172-10176 (1995).
272. R. A. Bradshaw and S. M. Arfin, “*Methionine Aminopeptidase: Structure and Function*”, Aminopeptidases (A. Taylor, ed) R.G. Landes Co., Austin, Vol. 6, 4, 91-106 (1996).
273. D. Thomas, S. D. Patterson and R. A. Bradshaw, “*Src Homologous and Collagen Protein (Shc) Binds to F-Actin and Translocates to the Cytoskeleton upon Nerve Growth Factor Stimulation in PC12 Cells*”, J. Biol. Chem. 270, 28924-28931 (1995).
274. J. P. Maufruid, R. A. Bradshaw, B. Boilly and H. Hondermarck, “*Nerve Growth Factor Induced Neurite Outgrowth from Amphibian Neuroepithelial Precursor Cells is Prevented by Dipeptides Inhibiting Ubiquitin-mediated Proteolysis*”, Int. J. Dev. Biol. 40, 609-611 (1996).
275. S. D. Patterson, D. Thomas and R. A. Bradshaw, “*Application of Combined Mass Spectrometry and Partial Amino Acid Sequence to the Identification of Gel-separated Proteins*”, Electrophoresis 17, 877-891 (1996).
276. P. Luporini, A. Vallesi, C. Miceli and R. A. Bradshaw, “*Ciliate Pheromones: Potential Forerunners of Self-Non-self Cell Markers*”, New Directions in Invertebrate Immunology, (K. Söderhäll, S. Iwanaga and G. R. Vasta, eds) SOS Publications, Fair Haven, pp: 343-354 (1996).
277. Y. Y. Wu and R. A. Bradshaw, “*Induction of Neurite Outgrowth by Interleukin-6 Is Accompanied by Activation of Stat3 Signaling Pathway in a Variant PC12 Cell (E2) Line*”, J. Biol. Chem. 271, 13023-13032 (1996).
278. Y. Y. Wu and R. A. Bradshaw, “*Synergistic Induction of Neurite Outgrowth by Nerve Growth Factor or Epidermal Growth Factor and Interleukin-6 in PC12 Cells*”, J. Biol. Chem. 271, 13033-13039 (1996).
279. S. Grigoryev, A. E. Stewart, Y. T. Kwon, S. M. Arfin, R. A. Bradshaw, N. A. Jenkins, N. C. Copeland and A. Varshavsky, “*A Mouse Amidase Specific for N-terminal Asparagine: The Gene, the Enzyme and Their Function in the N-End Rule Pathway*”, J. Biol. Chem. 271, 28521-28532 (1996).
280. C. H. Taban, H. Hondermarck, R. A. Bradshaw and B. Boilly, “*Effect of a dipeptide inhibiting ubiquitin-mediated protein degradation on nerve-dependent limb regeneration in the newt*”, Experientia 52, 865-870 (1996).

281. K. W. Walker, S. M. Arfin and R. A. Bradshaw, "*Methionine Aminopeptidase (Type I)*", Handbook of Proteolytic Enzymes (A. J. Barrett, N. D. Rawlings, and F. F. Woessner, Jr., Eds.) Academic Press, Ltd. London, 1394-1399 (1998).
282. R. A. Bradshaw, S. M. Arfin and K. W. Walker, "*Methionine Aminopeptidase (Type II)*", Handbook of Proteolytic Enzymes (A.J. Barrett, N. D. Rawlings, and F. F. Woessner, Jr., Eds.) Academic Press, Ltd. London, 1399-1403 (1998).
283. L. M. Thompson, S. Raffioni, J. J. Wasmuth, and R. A. Bradshaw, "*Chimeras of the Native Form or Achondroplasia Mutant (G375C) of Human Fibroblast Growth Factor Receptor 3 Induce Ligand-Dependent Differentiation of PC12 Cells*", Mol. Cell Biol. 17, 4169-4177 (1997).
284. D. Thomas and R. A. Bradshaw, "*Differential Utilization of ShcA Tyrosine Residues and Functional Domains in the Transduction of EGF-induced MAP kinase Activation in 293T Cells and NGF-induced Neurite Outgrowth in PC12 Cells: Identification of a New Grb2 Binding Site*", J. Biol. Chem. 272, 22293-22299 (1997).
285. R. L. Lundblad and R. A. Bradshaw, "*Applications of Site-specific Chemical Modification in the Manufacture of Biopharmaceuticals: I: An Overview*", Biotechnol. App. Biochem. 26, 143-151 (1997).
286. R. A. Bradshaw, W. W. Brickey and K. W. Walker, "*N-Terminal processing: The Methionine Aminopeptidase and N α -acetyl Transferase Families*", Trends Biochem. Sci. 23, 263-267 (1998).
287. E. D. Foehr, S. Raffioni, R. Fujii, and R. A. Bradshaw, "*FGF Signal Transduction in PC12 Cells: Comparison of the Responses Induced by Endogenous and Chimeric Receptors*", Immunology and Cell Biology, 76, 406-413 (1998).
288. R. A. Bradshaw and R. H. Angeletti, "*Post Translational Modifications*" In The Encyclopedia of Molecular Biology (T. E. Creighton, Ed) John Wiley & Sons, New York, 3, 1931-37 (1999).
289. K. W. Walker and R.A. Bradshaw, "*Yeast Methionine Aminopeptidase I Can Utilize Either Zn²⁺ or Co²⁺ as a Cofactor: A Case of Mistaken Identity?*", Prot. Sci., 7, 2684-2687 (1998).
290. S. Raffioni, Y.-Z. Zhu, R. A. Bradshaw and L. M. Thompson, "*Effect of Transmembrane and Kinase Domain Mutations on FGFR3 Chimera Signaling in PC12 Cells: A Model for the Control of Receptor Tyrosine Activation*", J. Biol. Chem. 273, 35250-35259 (1998).
291. K. W. Walker, E. Yi, and R. A. Bradshaw, "*Yeast Methionine Aminopeptidase I: Rapid Purification and Improved Activity Assay*", Biotech. Applied Biochem., 29, 157-163 (1999).
292. K. W. Walker and R.A. Bradshaw, "*Yeast Methionine Aminopeptidase I: Alteration of Substrate Specificity by Site-directed Mutagenesis*", J. Biol. Chem. 274 13403-409 (1999).
293. S. Raffioni, D. Thomas, E. Foehr, L. M. Thompson, and R. A. Bradshaw, "*Comparison of the Intracellular Signaling Responses by Three Chimeric Fibroblast Growth Factor Receptors in PC12 Cells*", Proc. Natl. Acad. Sci. U.S.A., 96, 7178-7183 (1999).

294. M. A. Yarski, B. D. Bax, R. A. Hogue-Angeletti and R. A. Bradshaw, “Nerve Growth Factor α -Subunit: Effect of Site-directed mutations on Catalytic Activity and 7S NGF Complex Formation”, *Biochem. Biophys. Acta.* 1477, 253-266 (2000).
295. Y. Y. Wu and R. A. Bradshaw, “Activation of the Stat3 Signaling Pathway is Required for Differentiation by Interleukin-6 in PC12-E2 Cells”, *J. Biol. Chem.* 275, 2147-56 (2000).
296. E. D. Foehr, A. Tatavos, E. Tanabe, S. Raffioni, S. Goetz, E. DiMarco, M. De Luca and R. A. Bradshaw, “Discoidin Domain Receptor 1 (DDR1) Signaling in PC12 Cells: Activation of Juxtamembrane Domains in PDGFR/DDR/TrkA Chimeric Receptors”, *FASEB J.* 14, 973-981 (2000).
297. R. A. Bradshaw, C. J. Hope, E. Yi, and K. W. Walker, “Co- and Post-translational Processing: The Removal of Methionine”, *The Enzymes*, 3rd Ed., “Co- and Post-translational Proteolysis of Proteins”, Vol. 23, (R. E. Dalbey and D. S. Sigman, eds.), (2000) in press.
298. E. D. Foehr, X. Lin, A. O’Mahoni, R. Geleziunas, R. A. Bradshaw and W. C. Greene, “NF- κ B Signaling Promotes Both Cell Survival and Neurite Process Formation in Nerve Growth Factor-Stimulated PC12 Cells”, *J. Neurosci.* 20, 7556-7563 (2000).
299. R. Farias-Eisner, L. Vician, S. Reddy, R. Basconcillo, S.A. Rabbani, Y. Y. Wu, R. A. Bradshaw and H. R. Herschman, “Expression of the Urokinase Plasminogen Activator Receptor is Transiently Required During “Priming” of PC12 Cells in Nerve Growth Factor-Directed Cellular Differentiation”, *J. Neurosci. Res.* 63, 341-346 (2001).
300. E. D. Foehr, S. Raffioni, J. Murray-Rust, and R. A. Bradshaw, “The Role of Tyrosine Residues in Fibroblast Growth Factor Receptor 1 Signaling in PC12 Cells: Systematic Site-directed Mutagenesis in the Endodomain”, *J. Biol. Chem.*, 276, 37529-37536 (2001).
301. R. A. Bradshaw and E. Yi, “Methionine Aminopeptidase and Angiogenesis” in “Proteases in Biology and Medicine,” (N. Hooper, ed), *Essays in Biochemistry*, 38, 65-78 (2002).
302. M. A. Yarski and R. A. Bradshaw, “Nerve Growth Factor,” in *Encyclopedia of Hormones and Related Cell Regulators*, (H. L. Henry and A. W. Norman, eds.), Academic Press, San Diego (2002), 1-6.
303. R. A. Bradshaw, E. Yi, and K. W. Walker, “Methionyl aminopeptidase type 1” in Handbook of Proteolytic Enzymes (A.J. Barrett, N.D. Rawlings and F.F. Woesner, Jr., Eds) 2nd Edition, Academic Press, Ltd. London (2003) in press [this is a revision of #281].
304. R. A. Bradshaw, E. Yi, and K. W. Walker, “Methionyl aminopeptidase type 2” in Handbook of Proteolytic Enzymes (A.J. Barrett, N.D. Rawlings and F.F. Woesner, Jr., Eds) 2nd Edition, Academic Press, Ltd. London (2003) in press [this is a revision of #282].
305. D. R. Tyson, S. Larkin, Y. Hamai, and R.A. Bradshaw, “PC12 Cell Activation by Epidermal Growth Factor Receptor: Role of Autophosphorylation Sites” , *Int’l J. Dev. Neurosci.* 21, 63-74 (2003).
306. P. Lad, D. A. Peterson, R. A. Bradshaw, and K. E. Neet, “Individual and combined effects of TrKA and p75NTR nerve growth factor (NGF) receptors: a role for the high affinity receptor site”, *J. Biol. Chem.* 278, 24808 – 817 (2003).
307. R. A. Bradshaw and E. A. Dennis, “Cell Signaling: Yesterday, Today and Tomorrow”, Handbook of Cell Signaling (R. A. Bradshaw and E. A. Dennis, eds) Elsevier Academic Press, San Diego Vol 1, 7-9 (2003).
308. D. R. Tyson and R. A. Bradshaw, “Transmembrane Receptor Oligomerization”, Handbook of Cell Signaling (R. A. Bradshaw and E. A. Dennis, eds) Elsevier Academic Press, San Diego Vol 1, 361-366 (2003).

309. E. B. Thompson and R. A. Bradshaw, “*Overview of Cell-Cell and Cell-Matrix Interactions*”, Handbook of Cell Signaling (R. A. Bradshaw and E. A. Dennis eds) Elsevier Academic Press, San Diego, Vol 3, 453-454 (2003).
310. R. A. Bradshaw, “*Proteomics Today, Proteomics Tomorrow*”, Biomedical and Pharmaceutical Applications of Proteomics, (H. Hondermarck, ed), Kluwar Press, Amsterdam, 1-17 (2004).
311. R. A. Bradshaw, “*Amino peptidases*”, Encyclopedia of Biological Chemistry, (W. J. Lennarz and M. D. Lane, eds) Elsevier, Oxford, Vol 1, 96 - 98 (2004).
312. R. A. Bradshaw, “*Methionine aminopeptidase 2 inhibition: anti-angiogenesis and tumour therapy*” Expert Opin. Ther. Patents, 14, 1-6 (2004).
313. R. L. Lundblad, R. A. Bradshaw, D. Gabriel, T. L. Ortel, J. Lawson, and K. G. Mann, “*A review of the therapeutic uses of thrombin*” , Thrombosis and Haemostasis 91, 851-860 (2004).
314. K. F. Medzihradzsky, Z. Darula, E. Perlson, M. Fainzilber, R. J. Chalkley, H. Ball, D. Greenbaum, M. Bogyo, D. R. Tyson, R. A. Bradshaw, and A. L. Burlingame, “*O-Sulfonation of serine and threonine - mass spectrometric detection and characterization of a new posttranslational modification in diverse proteins throughout the eukaryotes*” , Mol. Cell. Proteomics 3, 429-440 (2004).
315. J. C. Jimenez, D. R. Tyson, S. Dhar, T. Nguyen, Y. Hamai, R. A. Bradshaw and G. R. Evans, “*Human embryonic kidney cells (HEK-293 cells): characterization and dose-response relationship for modulated release of nerve growth factor for nerve regeneration*” , Plast. Reconstr. Surg. 113, 605 – 610 (2004).
316. M. P. McConnell, S. Dhar, S. Naran, T. Nguyen, R. A. Bradshaw and G. R. Evans, “*In vivo induction and delivery of nerve growth factor, using HEK-293 cells*”, Tissue Eng. 10, 1492-501 (2004).
317. R. A. Bradshaw and A. L. Burlingame, “*From Proteins to Proteomics*” , IUBMB Life, 57, 267 - 272 (2005).
318. M. P. McConnell, S. Dhar, T. Nguyen, S. Naran, J. W. Calvert, M. J. Sundine, R. A. Bradshaw and G. R. Evans, “*Nerve growth factor expression response to induction agent booster dosing in transfected human embryonic kidney cells*”, Plast. Reconstr. Surg. 115, 506-14 (2005).
319. N. Nowroozi, S. Raffioni, T. Wang, B. L. Apostol, R. A. Bradshaw, and L. M. Thompson, “*Sustained ERK1/2 but not STAT1 or 3 activation is required for thanatophoric dysplasia phenotypes in PC12 cells*” Human Molecular Genetics 14, 1529-1538 (2005).
320. J. P. Aurikko, B. T. Ruotolo, J. G. Grossman, M. C. Moncrieffe, E. Stephens, V. M. Leppanen, C. V. Robinson, M. Saarma, R. A. Bradshaw, and T. L. Blundell, “*Characterization of symmetric complexes of nerve growth factor and the ectodomain of the pan-neurotrophin receptor, p75NTR*” J. Biol. Chem. 280, 33453-60 (2005).
321. R. L. Lundblad and R. A. Bradshaw “*Addressing Product Improvement Using Chemical Modification in Biopharmaceutical Manufacture: A Case Study Using Blood Coagulation Factor VIII*”, BioProcess International 4 (8), 1-8 (2006).

322. R. A. Bradshaw, “*An Introduction to Proteomics: Applications to Plant Biology*”, Plant Proteomics: Technologies, Strategies, and Applications, (R. Rakwal., ed), John Wiley Publishers, New York (2008) 1-4.
323. R. A. Bradshaw, K. F. Medzihradzky, P. Ruperez, J.A. Osés-Prieto and A. L. Burlingame “*Post translational modifications: Identifying the wheat and sorting the chaff*”, Proc of 4th Int’l Peptide Congress (J. Wilce ed.) (2008) <http://www.peptideoz.org/proceedings.php> -Clinical Proteomics
324. J. Biarc, R. J. Chalkley, A. L. Burlingame and R. A. Bradshaw, “*Receptor Tyrosine Kinase Signaling: A Proteomic Perspective*” *Adv Enzyme Regulation*, 51, 1-13 (2010).
325. R. A. Bradshaw and E. A. Dennis, “*Transmembrane Receptors and Their Signaling Properties*” in “*Functioning of Transmembrane Receptors in Cell Signaling*”, (R .A. Bradshaw and E. A. Dennis, Editors), Elsevier Academic Press, San Diego CA, (2011), in press.
326. E. A. Dennis and R. A. Bradshaw,” *Intracellular signaling*” in “*Transduction Mechanisms in Cellular Signaling*” (E. A. Dennis and R. A. Bradshaw, Editors), Elsevier Academic Press, San Diego CA, (2011), in press.
327. R. A. Bradshaw and E. A. Dennis, “*Organelle Signaling*” in “*Functioning of Transmembrane Receptors in Cell Signaling*”, (R .A. Bradshaw and E. A. Dennis, Editors), Elsevier Academic Press, San Diego CA, (2011), in press.
328. E. A. Dennis and R. A. Bradshaw “*Signaling in Development and Disease*” in “*Transduction Mechanisms in Cellular Signaling*” (E. A. Dennis and R. A. Bradshaw, Editors), Elsevier Academic Press, San Diego CA, (2011), in press.

Abstracts

1. L. Kanarek, R. A. Bradshaw, and R. L. Hill, “*Preparation and Characterization of Crystalline Fumarase from Swine Cardiac Muscle*”, Fed. Proc. 23, 370 (1964).
2. L. Kanarek, R. A. Bradshaw, and R. L. Hill, “*The Reversible Dissociation of Fumarase into Subunits*”, *Abst. VIth Intern. Cong. Biochem.*, NY, p. 158 (1964).
3. R. A. Bradshaw, G. W. Robinson, L. Kanarek, and R. L. Hill, “*The Reaction of Swine Heart Fumarase with Thiol Reagents*”, Fed. Proc. 25, 528 (1966).
4. R. A. Bradshaw, W. T. Shearer, and F. R. N. Gurd, “*Sequence and Distinctive Copper-Binding Properties of the Amino Terminal Peptide of Bovine Serum Albumin*”, Fed. Proc. 26, 276 (1967).

5. F. R. N. Gurd, C. R. Hartzell, J. F. Clark, and R. A. Bradshaw, "*Hemic Acid Dissociation in Whale, Seal and Porpoise Myoglobins and Their Alkylated Derivatives*", Abst. 154th Amer. Chem. Soc. Mtg., Chicago, p. C90 (1967).
6. F. R. N. Gurd, T. . Hugli, and R. A. Bradshaw, "*Structure and Reactivity of Myoglobin*", Abst. 115th Amer. Chem. Soc. Mtg., San Francisco (1968).
7. C. R. Blagg, R. A. Bradshaw, D. Beckley, and S. S. A. Fenton, "*Serum Free Hydroxyproline Levels in Chronic Renal Diseases*", Abst. 3rd Annual Meeting American Society of Nephrology, Washington, DC, December 7 (1969).
8. R. H. Angeletti, R. A. Bradshaw, and R. D. Wade, "*Structural Studies of Mouse Submaxillary Nerve Growth Factor*", Abst. Nat. Acad. Sci. Mtg., Houston, Texas, October (1970).
9. E. P. Schulenburg, R. G. Lynch, E. S. Simms, R. A. Bradshaw, and H. N. Eisen, "*Primary Structure of Light Chain from the Myeloma Protein Produced by Mouse Plasma Cytoma MOPC-315*", Fed. Proc. 30, 468 (1971).
10. P. A. Neumann, R. A. Bradshaw, and M. J. Schlesinger, "*Studies on the Primary Structure of E. coli Alkaline Phosphatase*", Fed. Proc. 30, 1242 (1971).
11. M. N. Goldstein, V. Land, and R. A. Bradshaw, "*Stimulation of Human Neuroblastomas in vitro with Nerve Growth Factor*", Proc. Amer. Assoc. Can. Res. 13, 89 (1972).
12. B. E. Glatthaar, D. Tsernoglou, E. Hill, L. Webb, M. J. Wade, L. J. Banaszak, and R. A. Bradshaw, "*Studies on the Structure of Pig Heart Cytoplasmic Malate Dehydrogenase*", Fed. Proc. 31, A73 (1972).
13. R. H. Angeletti, W. A. Frazier, and R. A. Bradshaw, "*Topography of Nerve Growth Factor: The Reactivity of Tyrosine and Tryptophan*", Abst. 8th FEBS Meeting, Amsterdam, August #462 (1972).
14. B. E. Noyes and R. A. Bradshaw, "*Purification and Properties of β -Hydroxyacyl CoA Dehydrogenase from Pig Heart Muscle*", Fed. Proc. 32, 624 (1973).
15. R. A. Bradshaw, B. E. Noyes, B. E. Glatthaar, and J. S. Garavelli, "*Structure, Function and Evolution of Mitochondrial β -Hydroxyacyl-CoA and Malate Dehydrogenases*", Abst. 9th Int. Cong. Biochem., Stockholm, p. 56 (1973).
16. B. E. Glatthaar, G. R. Barbarash, B. E. Noyes, L. J. Banaszak, and R. A. Bradshaw, "*The Generation of Subforms During the Isolation of the Isozymes of Pig Heart Malate Dehydrogenase and Aspartate Aminotransferase*", Abst. of the Isozyme Conf., Virgin Islands (1973).
17. W. A. Frazier, L. F. Boyd, A. Szutowicz, M. W. Pulliam, and R. A. Bradshaw, "*Properties and Relationship of Specific Binding of 125 I-Nerve Growth Factor to Responsive Neurons and Peripheral Organs*", Fed. Proc. 33, 1551 (1974).
18. L. J. Banaszak, B. E. Glatthaar, G. R. Barbarash, L. Webb, and R. A. Bradshaw, "*Structure-Sequence Correlations in Cytoplasmic Malate Dehydrogenase*", Fed. Proc. 33, 1383 (1974).
19. R. A. Bradshaw, P. A. Neumann, F. Cancedda, K. Shriefer, J. D. Hecht, and M. J. Schlesinger, "*Structural Studies on E. coli Alkaline Phosphatase*", Fed. Proc. 34, 630 (1975).
20. M. R. Sutton, B. E. Glatthaar, J. S. Garavelli, L. J. Banaszak, and R. A. Bradshaw, "*Sequence Studies on Pig Heart Mitochondrial Malate Dehydrogenase*", Fed. Proc. 34, 630 (1975).

21. M. W. Pulliam, A. Szutowicz, W. A. Frazier, L. F. Boyd, and R. A. Bradshaw, "Specific Binding of ^{125}I -Nerve Growth Factor to Chick Embryonic Brain, Heart and Peripheral Neurons", Trans. Amer. Soc. Neurochem. 6, 88 (1975).
22. R. A. Hogue-Angeletti, W.A. Frazier, J. Jacobs, H. D. Niall, and R. A. Bradshaw, "Cobra Venom Nerve Growth Factor: Isolation and Partial Amino Acid Sequence", Trans Amer. Soc. Neurochem. 6, 88 (1975).
23. G. Schonfeld and R. A. Bradshaw, "Region-Specific Antisera against Human Apolipoprotein A-1", Abst. 48th Scientific Sessions, Suppl. II to Circulation Vol 51 and 52, 1-17 (1975).
24. I. M. Jeng, R.Y. Andres, and R. A. Bradshaw, "Effect of Triton on the Binding of ^{125}I -NGF to Embryonic Sensory Ganglia", Trans. Am. Soc. Neurochem. 7, 189 (1976)
25. I. M. Jeng, R.Y. Andres, and R. A. Bradshaw, "Direct Isolation of the α and γ Subunits of the Mouse Nerve Growth Factor Complex", Fed. Proc. 35, 1684 (1976).
26. R. A. Bradshaw, "Growth Factors", Abst. USSR-USA Symposium on Chemistry and Physics of Proteins, Riga, USSR, 40-42 (1976).
27. E. M. Johnson, Jr., R.Y. Andres, R.M. Macia and R. A. Bradshaw, "Effects of drugs which produce sympathectomy on the retrograde transport and accumulation of NGF", Soc. Neurosc. Abstr. 3, 21 (1977).
28. R. A. Bradshaw, I. Jeng, and R. E. Silverman, "Structural Aspects of the Mouse Nerve Growth Factor Complex", Trans. Am. Soc. Neurochem. 8, 64 (1977).
29. R. Y. Andres, J. S. Rubin, and R. A. Bradshaw, "Specific Nuclear Binding of Nerve Growth Factor", Trans. Am. Soc. Neurochem. 8, 190 (1977).
30. G. A. Grant, K. O. Henderson, A. Z. Eisen, and R. A. Bradshaw, "Structural Studies on a Collagenolytic Serine Protease from Fiddler Crab", Fed. Proc. 36, 837 (1977).
31. G. W. Hart, G. A. Grant, and R. A. Bradshaw, "Primary Structural Requirements for the Glycosylation of Proteins", Fed. Proc. 37, 1684 (1978).
32. R. A. Bradshaw and H. D. Niall, "Polypeptide Hormones: Evolutionary Considerations", Proc. of the Australian Biochemical Society 11, Q13 (1978).
33. N. V. Costrini and R. A. Bradshaw, "Binding Characteristics and Apparent Molecular Size of the Nerve Growth Factor Receptor from Sympathetic Neurons", Clinical Research 26, 678A (1978).
34. K. A. Thomas, R. E. Silverman, I. Jeng, N. C. Baglan, and R. A. Bradshaw, "Purification, Characterization and Partial Amino Acid Sequence of the γ -Protease of Mouse 7S Nerve Growth Factor", Fed. Proc. 38, 324 (1979).
35. M. Gast, R. Mikado, G. Bryant-Greenwood, R. A. Bradshaw, H. Niall, and I. Boime, "Identification of a Stable Precursor to Relaxin in a Cell Free System", Abst. 26 Mtg. Soc. Gyn. Invest., p. 165 (1979).
36. N. V. Costrini and R. A. Bradshaw, "Nerve Growth Factor: Molecular Properties of the Plasma Membrane Receptor of Rabbit Superior Cervical Neurons", Abst. 61st Mtg. of the Endocrine Society, 222 (1979).
37. R. A. Bradshaw, N. V. Costrini, E. M. Johnson, M. Kogan, J. S. Rubin, and K. A. Thomas, "Nerve Growth Factor: Structural and Mechanistic Considerations", Abst. VIIth Mtg. Int. Soc. for Neurochemistry, Jerusalem, Israel p. 6 (1979).

38. M. A. Piron, P. DeMeyts, R. Humbel, H. D. Niall, R. A. Bradshaw, and B. Kemp, "*The Negative Cooperativity of the Insulin Receptor: Studies with Insulin-Like Growth Factors (IGF), Relaxin, Nerve Growth Factor (NGF) and a Synthetic Hexapeptide from the B Chain of Insulin*", Abst. 2nd Int. Insulin Symp., Aachen, W. Germany, p. 123 (1979).
39. M. Niall, H. Wilmot, and R. A. Bradshaw, "*Ontogenesis of Hepatic Plasma Membrane and Intracellular Lactogenic Receptors During Rapid Growth in the Rat*", Proc. of the Endocrine Society of Australia 22, 61 (1979).
40. H. Agrawal, K. O'Connell, D. Leeke, and R. A. Bradshaw, "*In vivo Phosphorylation of Myelin Basic Proteins in Developing Brain*", Trans. Amer. Soc. Neurochem. 11, 89 (1980).
41. J. S. Rubin, N. V. Costrini, and R. A. Bradshaw, "*Structure and Function of Nerve Growth Factor from Guinea Pig Prostate and Mouse Submaxillary Gland*", J. Supramol. Structure, Suppl. 4, 59 (1980).
42. K. G. Bitar, A. Perez-Aranda, T. A. Meininger, R. A. Bradshaw, "*Primary Structure of L-3-Hydroxyacyl CoA Dehydrogenase from Pig Heart*", Fed. Proc. 39, 1998 (1980).
43. S. P. Piccoli, F. Cancedda, P. A. Neumann, K. Shriefer, M. J. Schlesinger, and R. A. Bradshaw, "*Amino Acid Sequence of E. coli Alkaline Phosphatase*", Fed. Proc. 39, 1997 (1980).
44. H. Oyama, H. Hirsch, K. Gabbay, R. A. Bradshaw, and A. Permutt, "*Isolation and Characterization of Somatostatin from Fish Pancreatic Islets*", Abst. 62nd Mtg. of the Endocrine Society, p. 177 (1980).
45. C. J. Morgan, R. A. Bradshaw, J. Massague, B. J. Guillette, and M. P. Czech, "*Covalent Labeling of the Nerve Growth Factor Receptor of Rabbit Sympathetic Ganglia*", J. Supramol. Struct. and Cell Biochem. Suppl. 5, 266 (1981).
46. J. S. Rubin, M. Lieberman, N. V. Costrini, and R. A. Bradshaw, "*Isolation and Sequence Analysis of Epidermal Growth Factor from Guinea Pig Prostate Gland*", Fed. Proc. 40, 1710 (1981).
47. J. S. Rubin, I. K. Mariz, W. H. Daughaday, and R. A. Bradshaw, "*Isolation and Partial Sequence Analysis of Rat Basic Somatomedin*", Abst. 63rd Mtg. of the Endocrine Society, 107 (1981).
48. R. T. Fernley and R. A. Bradshaw, "*Structure and Evolution of Eukaryotic and Prokaryotic Malate Dehydrogenases*", Proc. of the Australian Biochemical Society, 14, 32 (1981).
49. G. J. Markelonis, R. A. Bradshaw, and T. H. Oh, "*The Myotrophic Protein Sciatin is a Transferrin-Like Polypeptide*", Trans. Amer. Soc. Neurochem. 13, 244 (1981).
50. R. A. Bradshaw, "*Structure and Function of the Nerve Growth Factor Receptor of Peripheral Neurons*", J. Cellular Biochem., Suppl. 6, 110 (1982).
51. S. K. Lemmon, M. C. Riley, R. A. Bradshaw, K. A. Thomas, G. A. Hoover, and T. Maciag, "*A Comparison of Bovine Brain and Pituitary Fibroblast Growth Factors*", J. Cellular Biochem., Suppl. 6, 147 (1982).
52. R. A. Bradshaw, "*Nerve Growth Factor and Related Substances: Structure, Function and Evolution*", Proc. 13th International Cancer Congress, Seattle, WA, p 155 (1982).
53. R. A. Bradshaw, "*Fibroblast Growth Factor: Brain and Pituitary Forms*", Trans. Amer. Soc. Neurochem. 14, 192 (1983).
54. P. J. Isackson, D. K. Hopson, S. J. Nisco, and R. A. Bradshaw, "*Characterization of Two Forms of the α -Subunit of Mouse Submandibular Gland 7S Nerve Growth Factor*", Fed. Proc. 42, 1831 (1983).
55. R. A. Bradshaw, J. C. Dunbar, P. J. Isackson, R. N. Kouchalacos, and C. J. Morgan, "*Structural Properties of Murine Nerve Growth Factor and Its Receptor*", J. Neurochem. 41 (Suppl), S126 D (1983).

56. R. A. Bradshaw, "Receptors for Nerve Growth Factor: Structure and Subcellular Distribution", Proc. Int. Union of Phys. Sciences XV, 439 (1983).
57. J. C. Warren, G. Murdock, J.-k. Fang, and R. A. Bradshaw, "Primary Structure (Amino Acid Sequence) of Estradiol 17 β -Dehydrogenase", Abstr. 31st Mtg Soc. Gyn. Invest., 192 (1984).
58. J.-k. Fang, J. J. Birktoft, L. J. Banaszak, J. C. Warren and R. A. Bradshaw, "Amino Acid Sequences of Cytoplasmic Malate Dehydrogenase and 17 β -Estradiol Dehydrogenase: Comparison with Other NAD⁺-dependent Dehydrogenases", Fed. Proc. 43, 1867 (1984).
59. R. S. Morrison, J. DeVellis, L. F. Eng and R. A. Bradshaw, "Hormones and Growth Factors Induce the Synthesis of Glial Fibrillary Acidic Protein in Rat Brain Astrocytes", Soc. for Neuroscience Abstracts 10, 457 (1984).
60. R. N. Kouchalakos and R. A. Bradshaw, "Purification of Nerve Growth Factor Receptor from Rabbit Superior Cervical Ganglia Membranes", Int. Conf. on Peptide Hormone Receptors: Regulation and Transmission of Information (Paris, France) 25 (1984).
61. S. S. Disper, C. Miceli, P. Luporini, E. Orias and R. A. Bradshaw, "Partial Amino Acid Sequences of Mating Pheromones of the Ciliate E. raikovi", Abstr. Symp. Amer. Prot. Chem., 22 (1985).
62. R. A. Bradshaw, J.-k. Fang, R. T. Fernley, M. Chen, J. C. Warren, J. J. Birktoft, and L. J. Banaszak, "Sequence Comparisons of Cytoplasmic and Mitochondrial NAD⁺-Dependent Dehydrogenases", Biochemistry 24, 3361 (1985).
63. R. N. Kouchalakos and R. A. Bradshaw, "Relationship between Nerve Growth Factor Receptor Species", Abstr., EMBO-EMBL Symp. "Growth Factors, Receptors, and Oncogenes," 106 (1985).
64. P. J. Isackson and R. A. Bradshaw, "Biosynthesis and Structure of Nerve Growth Factor", J. Cell. Biol. 103, 9a (1986).
65. J. H. Fallon, K. B. Seroogy, R. S. Morrison, R. A. Bradshaw, and K. A. Thomas, "Growth Factors in the CNS: Localization of Fibroblast Growth Factor Immunoreactivity to Neurons of Mouse Hypothalamus", Anat. Record 216 110 (1986).
66. P. J. Isackson, R. A. Bradshaw, and E. G. Jones "Expression of Mouse Nerve Growth Factor Subunits", Abstrs. Soc. Neuroscience, 12, 214 (1986).
67. H. I. Kornblum, R. S. Morrison, R. A. Bradshaw, and F. M. Leslie, "Effects of Epidermal Growth Factor and Basic Fibroblast Growth Factor on Postnatal Mammalian Neurons in Culture", Abstrs. Soc. Neuroscience 12, 1101 (1986).
68. L. C. Blair, R. A. Bradshaw, K. Bryan, R. C. Elliott, P. Ghosh-Dastidar, R. L. Kendall, R. K. Koduri, S. Huang, J.-H. Lee, P.-S. Liu, K. Saito, and J. L. Weickmann, "Specificity of Co-translational Amino Terminal Processing of Proteins in Yeast", J. Cell. Biochem. Suppl. 11A, 287 (1987).
69. M. Blaber, P. J. Isackson, and R. A. Bradshaw, "Epidermal Growth Factor Binding Protein: A Model Serine Protease for Enzyme Engineering", J. Cell Biochem. Suppl. 11C, 223 (1987).
70. M. Chen, G. L. Murdock, R. A. Bradshaw and J. C. Warren "Human Placental Estradiol 17 β -Dehydrogenase: Primary Structure of the Catalytic Region", Abstr. 34th Soc. Gyn. Invest. 82 (1987).
71. R. A. Bradshaw, R. Yamada, R. L. Kendall, "The Amino Terminal Processing of Proteins: Methionine Aminopeptidase and N^α-Acetyltransferase", J. Cell. Biochem. Suppl. 11A, 240 (1987).
72. S. S. Disper, R. A. Bradshaw, S. Raffioni, C. Miceli, and P. Luporini, "Partial Amino Acid Sequences of Four Mating Pheromones of the Marine Ciliate Euplotes raikovi", Eur. J. Cell Biol. 42 (Suppl. 16), 40 (1986).

73. M. Blaber, R. Blevins, K. A. Thomas, P. J. Isackson and R. A. Bradshaw, "*Growth Factor Processing: Molecular Modelling of EGF and NGF Associated Kallikreins*", Abstr. 1st Symp. Protein Soc. (San Diego, CA) 42 (1987).
74. R. Yamada, R. Kendall and R. A. Bradshaw, "*Co-translational Amino-Terminal Processing of Eukaryotic Proteins*", Abstr. 2nd Protein Soc. (San Diego), CA 34 (1988).
75. S. Raffioni, C. Miceli, P. Luporini, S. S. Disper, and R. A. Bradshaw "*Mating pheromones of Euplotes raikovi: Evidence for two classes*", Abstrs. 2nd International Ciliate Molecular Genetics Conf. (Berkeley, CA) 15, (1987).
76. F. M. Leslie, R. S. Broide, K. P. Cavanaugh, R. A. Bradshaw, and J. H. Fallon, "*Epidermal Growth Factor Receptor Localization and Transport within the Rat Brain Striatonigral System*", Abstrs. Soc. for Neuroscience 13, 1604 (1987).
77. D. D. Eveleth and R. A. Bradshaw, "*Variant PC12 Cells Which Fail to Respond to Nerve Growth Factor Possess High Affinity NGF Receptors*", Abstrs. Soc. Neurosci. 13, 516 (1987).
78. R. E. Borgia and R. A. Bradshaw, "*Amino Acid Sequence Analysis of Porcine Heart Fumarase*", FASEB Journal, 2, A1746 (1988).
79. R. A. Bradshaw, "*Biosynthesis of Nerve Growth Factor and Epidermal Growth Factor*", Abstrs. 14th International Congress of Biochem., Vol I, 24 (1988).
80. D. D. Eveleth and R. A. Bradshaw, "*Antibodies Directed against NGF Receptor*", Abstracts Society Neuroscience 14, 685 (1988).
81. S. Raffioni, P. Luporini and R. A. Bradshaw, "*Complete Sequence Analysis of Members of a Polypeptide-Pheromone Family Secreted by the Ciliated Protozoan Euplotes raikovi*", Abstracts 4th Int. Congress Cell Biology 62 (1988).
82. R. Yamada, R. L. Kendall, and R. A. Bradshaw, "*Co-translational Amino-terminal Processing of Eukaryotic Proteins*", Abstrs 2nd Symposium Protein Society 69, (1988).
83. R. A. Bradshaw, S. Raffioni, P. Luporini, B. Chait, T. Lee, and J. Shively, "*Amino Acid Sequence/Mass Spectrometer Analysis of Mating Pheromones of the Ciliate E. raikovi*", Abstrs 196th Meeting American Chem. Soc., ANYL 89, (1988).
84. C. Ortenzi, C. Miceli, R. A. Bradshaw, and P. Luporini, "*Self-recognition in Ciliated Protozoa: Identification and Purification of Autocrine Receptors for the Mating Pheromone Er-1 of Euplotes Raikovi*", Abstr. VIII Inst. Cong. Protozoology 105 (1989).
85. S. Raffioni, R. A. Bradshaw, and P. Luporini, "*Amino Acid Sequence Analysis of Mating Pheromones of the Ciliate Euplotes raikovi*", Abstrs VIII Int. Cong. Protozoology 51 (1989).
86. P. J. Isackson, M. Blaber, K. Cavanaugh, and R. A. Bradshaw "*Processing of Recombinant Nerve Growth Factor*", Abstrs. Soc. Neurosci. 15, 866 (1989).
87. J. G. Altin and R. A. Bradshaw, "*Induction of 1,2-Diacylglycerol by Nerve Growth Factor and Basic Fibroblast Growth Factor in PC12 Cells Is Primarily from Phospholipids other than the Phosphoinositides*", Abstrs. Soc. Neurosci. 15, 866 (1989).
88. H. I. Kornblum, H. K. Raymon, R. S. Morrison, K. P. Cavanaugh, R. A. Bradshaw, and F. M. Leslie, "*Epidermal Growth Factors and Basic Fibroblast Growth Factor Affect Overlapping Populations of Neocortical Neurons*", Abstrs. Soc. Neurosci. 15, 1362 (1989).
89. R. A. Bradshaw, M. Blaber, and P. J. Isackson, "*Biosynthesis of EGF and NGF*", J. Cell. Biochem., Suppl. 14F, 80 (1990).

90. D. M. Raben, M. S. Pessin, L. A. Rangan, T. M. Wright, R. A. Bradshaw, and J. G. Altin, "*Kinetic and Molecular Species Analyses of Agonist-induced Increases in Diglycerides*", J. Cell. Biochem., Suppl. 14F, 84 (1990).
91. M. S. Pessin, J. G. Altin, R. A. Bradshaw, and D. M. Raben, "*Agonist Dependent Differences in Molecular Species of Stimulated Diglycerides*", J. Cell. Biochem. Suppl. 14F, 101 (1990).
92. M. S. Pessin, J. G. Altin, R. A. Bradshaw, and D. M. Raben, "*Molecular Species Differences of PC12 Diglycerides: Comparison of Carbachol, NGF and bFGF*", FASEB J. 4, A2059 (1990).
93. R. A. Bradshaw, J. Altin, D. D. Eveleth, R. Fujii, H. R. Herschman, D. Raben, S. Raffioni, and Y. Wu, "*Signal Transduction in PC12 Cells by NGF and bFGF*", Absts., 4th Symp Prot. Soc., San Diego, CA, #C, (1990).
94. S. Raffioni and R. A. Bradshaw, "*bFGF Stimulates Tyrosine Kinase Activity in PC12 Cells*", Absts. NYAS Mtg., The Fibroblast Growth Factor Family, La Jolla, CA (1991), Part B #30.
95. B. Boilly, K. Cavanaugh, D. Thomas, H. Hondermarck, S. V. Bryant, R. A. Bradshaw, "*Regenerating Limb Blastomas of Axolotls Contain and Bind Fibroblast Growth Factor*", Absts. NYAS Mtg., The Fibroblast Growth Factor Family, La Jolla, CA (1991), Part C #22.
96. B. Boilly, D. Thomas, H. Hondermarck, S. V. Bryant, R. A. Bradshaw, "*Acidic Fibroblast Growth Factor is Present in Regenerating Limb Blastemas of Axolotls*", Biol. of the Cell, 69, 3e (1990).
97. J. G. Altin, R. Wetts, R. A. Bradshaw, "*Neurite Induction by NGF and bFGF in PC12 Cells is Potentiated by Microinjection of Antibodies to c-fos*", Proc. Australian Biochem. Soc. 22, C46 (1990).
98. R. A. Bradshaw, M. Blaber and P. J. Isackson, "*Processing of Growth Factor Precursor*" , J. Cell Biochem. Suppl. 15G, 106 (1991).
99. R. A. Bradshaw, M. Blaber and P. J. Isackson, "*Proteolytic Processing of the Precursors of NGF and EGF: The Role of Glandular Kallikreins*", Absts. Endocrine Soc. Mtg., 28, (1991).
100. R. L. Kendall and R. A. Bradshaw, "*Isolation and Characterization of Porcine Liver Methionine Aminopeptidase*", Absts. 5th Symp. Prot. Soc., 93 (1991).
101. R. A. Bradshaw, M. Blaber, P. J. Isackson and M. A. Yarski, "*Growth Factor Processing by Glandular Kallikreins*", Absts. Int. Conf. Kinin-'91 Munich, 77 (1991).
102. S. Raffioni and R. A. Bradshaw, "*EGF, bFGF, and NGF Induce Modification of Phosphatidylinositol 3-Kinase Activity*", J. Cell Biochem., 16B, 230 (1992).
103. Y. Y. Wu and R. A. Bradshaw, "*Vanadate Inhibits the Effects of Nerve Growth Factor (NGF) and Basic Fibroblast Growth Factor (FGF) on PC12 Cells*", FASEB J. 6, A1073 (1992).
104. A. . Stewart and R. A. Bradshaw, "*Partial Purification and Characterization of Protein Amino-Terminal Asparagine Deamidase Activity from Porcine Liver*", Abst. VI Symp. Prot. Soc., p110 (1992).
105. A. E. Stewart and R. A. Bradshaw, "*Purification and Characterization of Protein Amino-terminal Asparagine Deamidase Activity from Porcine Liver*", FASEB J. 7, A1187 (1993).
106. J. Sy, S. Arfin, M. Naito and R. A. Bradshaw, "*Effects of C-terminal Residues on Dipeptide Inhibition of Ubiquitin-mediated Proteolysis*", FASEB J. 7, A1187 (1993).
107. A. E. Stewart, S. M. Arfin, and R. A. Bradshaw, "*Purification and Characterization of Protein Amino-terminal Asparagine Deamidase Activity from Porcine Liver*", Prot. Sci. 2, (Suppl. 1), 155 (1993).

108. L. R. Brown, S. Mronga, R. A. Bradshaw, C. Ortenzi, P. Luporini, and C. Miceli, "*The NMR Solution Structure of the Pheromone Er-10 from Euplotes raikovi*", Absts IX Int. Cong. Protozool. **18** (1993).
109. Y. Y. Wu, R. Fujii, and R. A. Bradshaw, "*Stimulation of a Transcription-independent Neurite Outgrowth by Growth Factors in PC12 Variant E2 Cell*", FASEB J. **8**, A115 (#668) 1994.
110. S. Raffioni and R. A. Bradshaw, "*Induction of a Neuronal Phenotype in PC12 Cells by EGF in the Presence of Staurosporine*", FASEB J. **8**, A115 (#669) 1994.
111. A. E. Stewart, S. M. Arfin, and R. A. Bradshaw, "*Protein N-terminal Asparagine Deamidase: Isolation and Characterization of an Unique Enzyme*", Prot. Sci. **3**, Suppl 1, 148 (1994).
112. S. M. Arfin, R. L. Kendall, A. E. Stewart, L. Hall, A. Qin and R. A. Bradshaw, "*Porcine Brain Methionine Aminopeptidase: Protein and Nucleotide Sequences Indicate Identity with Eukaryotic Initiation Factor-2 Associated Protein*", Prot. Sci. **3**, Suppl 1, 148 (1994).
113. Y. Y. Wu and R. A. Bradshaw, "*Induction of Neurite Outgrowth by Interleukin-6 Is Associated with Activation of the STAT 3 Signaling Pathway in PC12-E2 Cell*", Absts. Amer. Soc. Cell Biol. (34th Mtg), H87 (1994).
114. S. Raffioni, F. Coulier, D. Birnbaum and R. A. Bradshaw, "*FGF6 Induces Neuronal Differentiation in PC12 Cells*", Absts. Amer. Soc. Cell Biol. (34th Mtg), H159 (1994).
115. H. Hondermarck, M. Oudghir, C. Taban, R. A. Bradshaw, and B. Boilly, "*Effect of Dipeptide Inhibitors of the Ubiquitin-mediated Protein Degradation System on Limb Regeneration of the Newt*", Proc. Aust. Neurosci. Soc., **6**, 110 (1995).
116. J. P. Maufroid, B. Boilly, R. A. Bradshaw and H. Hondermarck, "*Nerve Growth Factor, but not Fibroblast Growth Factor Stimulates Neurite Outgrowth from Amphibian Neuroepithelial Cells: Inhibition by Dipeptides Blocking Ubiquitin-mediated Proteolysis*", Proc. Aust. Neurosci. Soc., **6**, 129 (1995).
117. D. Thomas, S. Patterson and R. A. Bradshaw, "*SHC Interacts with the Actin Cytoskeleton*", Absts. ASBMB Mtg., LB92 (1995).
118. S. Raffioni, F. Coulier and R. A. Bradshaw, "*Signalling Pathways Activated by FGF2 and FGF6 in PC12 Cells*", Absts. ASCB Mtg., H107 (1995).
119. E. D. Foehr, R. Fujii, S. Goetz, M. DeLuca, S. Raffioni and R. A. Bradshaw, "*Use of Chimeric Tyrosine Kinase Receptors to Identify Signaling Pathways in PC12 Cell*", Absts. Keystone Symposium on Intracellular Signaling with Tyrosine Kinases, p. 31 (#118), (1996).
120. M. A. Yarski and R. A. Bradshaw, "*Structure/Function Analyses of 7S-NGF Kallikrein Subunits*", Prot. Sci. **5** (Suppl. 1) 67 (1996).
121. E. D. Foehr, S. Raffioni, R. Fujii and R. A. Bradshaw, "*hPDGF- β R/FGFR1 Chimeric Receptors: Ligand-dependent and -independent Responses in PC12 Cells*", Absts. Tyrosine Phosphorylation and Cell Signaling Mtg., San Diego, 109 (1996).
122. L. Thompson, S. Raffioni, J. J. Wasmuth and R. A. Bradshaw, "*Chimeras of hPDGF- β R/hFGFR3 and hPDGF- β R/hFGFR3 (G375C), a Mutation which Causes Achondroplasia, Stimulate Ligand-dependent Neurite Outgrowth and MAP Kinase Activation in PC12 Cells*" Absts. Tyrosine Phosphorylation and Cell Signaling Mtg., San Diego, 207 (1996).
123. Y. Y. Wu and R. A. Bradshaw, "*Stimulation of Neurite Outgrowth in PC12 Cells by Interleukin-6: Synergistic Responses with Other Growth Factors and With a Variant Cell Line*", Absts. Tyrosine Phosphorylation and Cell Signaling Mtg., San Diego, 225 (1996).

124. R. A. Bradshaw, E. Foehr, S. Layden, S. Raffioni, D. Thomas, L. Thompson and Y. Y. Wu, "Growth Factor Mediated-Signal Transduction in PC12 Cells: Studies with Chimeric Receptors and Mutant Cell Lines", Absts. VIII PABMB Congress, Pucón, Chile, #95 (1996).
125. R. A. Bradshaw, E. Foehr, S. Layden, S. Raffioni, D. Thomas, L. Thompson and Y. Y. Wu, "Growth Factor Mediated-Signal Transduction in PC12 Cells: Studies with Chimeric Receptors and Mutant Cell Lines", Absts. 35th National. Research Conf., Australian Soc. Med. Res., Gold Coast, QLD, Australia, Plenary 1-1 (1996).
126. L. M. Thompson, S. Raffioni, Y.-Z. Zhu, J. J. Wasmuth and R. A. Bradshaw, "Biological Studies of Mutations in *FGFR3* Which Cause Skeletal Dysplasias", Amer. J. Human Genetics **59** (Suppl.), A161 (1996).
127. S. Raffioni, J. T. Kurokawa, B. S. Khatra and R. A. Bradshaw, "Expression of *hPDGFβ/FGFR4* Chimeric Receptors Stimulate Ligand Dependent Response in PC12 Cells", Absts. ASBMB Fall Symposium, Integration of Growth Factor Signaling Pathways, Lake Tahoe, CA, #19 (1996).
128. E. D. Foehr, S. Raffioni, R. Fujii and R. A. Bradshaw, "Use of a *hPDGFRβ/FGFR1* Chimeric Receptor to Assess Signal Transduction Pathways in PC12 Cell", Abst. Mtg. Tyrosine Phosphorylation & Cell Signaling, Cold Spring Harbor Laboratory, NY (1997).
129. E. D. Foehr, S. Raffioni, R. Fujii and R. A. Bradshaw, "Use of a *hPDGFRβ/FGFR1* Chimeric Receptor to Assess Signal Transduction Pathways in PC12 Cells", FASEB J. (Absts. 17th Internat'l Congress of Biochemistry and Molecular Biology), **11**, A919 (1997).
130. S. Raffioni and R. A. Bradshaw, "Comparative Analysis of *FGFR1*, *FGFR3* and *FGFR4* Tyrosine Kinase Activities Expressed as Chimeric Receptors in PC12 Cell", FASEB J. (Absts. 17th Internat'l Congress of Biochemistry and Molecular Biology), **11**, A1057 (1997).
131. S. S. Layden and R. A. Bradshaw, "A *PDGF/EGF* Receptor Chimera Stimulates Ligand-Dependent Growth and Differentiation of PC12 Cells", FASEB J. (Absts. 17th Internat'l Congress of Biochemistry and Molecular Biology), **11**, A1161 (1997).
132. M. A. Yarski and R. A. Bradshaw, "Conversion of α -NGF, an Inactive Glandular Kallikrein, to a Catalytically Active Form by Site-Directed Mutagenesis", FASEB J. (Absts. 17th Internat'l Congress of Biochemistry and Molecular Biology), **11**, A1393 (1997).
133. K. W. Walker, W. W. Brickey and R. A. Bradshaw, "Co-translational Processing of Eukaryotic Proteins: Expression and Characterization of Yeast Methionine Aminopeptidases I and II and *N-Acetyltransferase II*", FASEB J. (Absts. 17th Internat'l Congress of Biochemistry and Molecular Biology), **11**, A990 (1997).
134. E. D. Foehr, A. Tatavos, E. Tanabe and R. A. Bradshaw, "Chimeric *TrkA/TrkE* Receptors Tyrosine Kinases Identify Signaling Motifs Which are Necessary for Neuronal Differentiation of PC12 Cells", Absts. Keystone Symposium on Specificity of Signal Transduction, Lake Tahoe, NV (1998) p. 70.
135. R. A. Bradshaw, L. M. Thompson, S. Raffioni, E. D. Foehr, "FGF Receptor Signaling in Skeletal Dysplasias", Absts. Keystone Symposium on Specificity of Signal Transduction, Lake Tahoe, NV (1998) p. 33.
136. S. S. Layden and R. A. Bradshaw, "Differentiation of PC12 Cells by Chimeric *EGF* Receptors", FASEB J., **12**, A1466, (Abst. #903) 1998).
137. K. W. Walker and R. A. Bradshaw, "Expression and Characterization of Yeast Methionine Aminopeptidase I and II Responsible for Removing Initiator Methionines", Protein Science, **7** Suppl. 1, 137 (#487S) (1998).

138. L. M. Thompson, S. Raffioni, Y.-Z. Zhu, and R. A. Bradshaw, “*Fibroblast Growth Factor Receptors, Fibroblast Growth Factors, and the Skeletal Dysplasias*”, Absts. ASBMB Fall Symp., “*Regulation of Bone Formation*”, #47, (1998).
139. K. W. Walker, W. W. Brickey and R. A. Bradshaw, “*Co-translational N-terminal Processing of Proteins in Eukaryotes*”, Abst. 1998 Fall Camp, Taiwan Soc. Biochem. Mol. Biol., “*Enzymes: Function and Structure*”, p17 (L3) (1998).
140. D. D. Eveleth, L. S. Gillespie, and R. A. Bradshaw, “*Identification of Rat Nerve Growth Factor Receptor Species Using Antipeptide Antibodies*”, J. Cell.Biol. 107, 68a (1988).
141. R. A. Bradshaw and K. W. Walker, “*Methionine Aminopeptidases: Structure, Function and Evolution*”, Absts. Keystone Symposium “*Metalloproteases: Chemistry, Biology & Medicine*,” #010, p24 (1999).
142. K. W. Walker and R. A. Bradshaw, “*Alteration of the Substrate Specificity of Yeast Methionine Aminopeptidase I by Site-directed Mutagenesis*”, Absts. Keystone Symposium on “*Metalloproteases: Chemistry, Biology & Medicine*,” #122, p37 (1999).
143. D. R. Tyson, S. Leyden and R. A. Bradshaw, “*Dissecting the Importance of the Tyrosine Autophosphorylation Sites of the Epidermal Growth Factor Receptor using PC12 Cells*”, Abst. Keystone Symposium, Signaling 2000, #164, p 80 (2000).
144. Y. Y Wu and R. A. Bradshaw, “*Activation of Protein Kinase C- δ is Involved in Neurite Outgrowth by Interleukin-6 in PC12 Cells*”, Absts. Keystone Symp., Signaling Systems: Chemistry, Biology and Pathology (E4), 63 (2001).
145. C. De-Fraja, S. Cermelli, E. Yi, S. Raffioni, L. M. Thompson and R. A. Bradshaw, “*Sprouty2 Inhibition of PC12 Cells Neurite Outgrowth*”, Absts. Keystone Symp., Signaling Systems: Chemistry, Biology and Pathology (E4), 58 (2001).
146. S. Cermelli, C. De-Fraja, S. Raffioni, L. M. Thompson, R. Cancedda, F. Descalzi and R. A. Bradshaw, “*Signal Transduction in Cultured Chick Chondrocytes: Modulation by Inflammatory and Anti-inflammatory Agents*”, Absts. Keystone Symp. Signaling Systems: Chemistry, Biology and Pathology (E4), 70 (2001).
147. D. R. Tyson, L. M. Thompson and R. A. Bradshaw, “*Possible Mechanisms of How the Mutation Within Fibroblast Growth Factor Receptor 3 Which Causes Thanatophoric Dysplasia Type II Creates a Constitutively Active Kinase*”, Absts. Keystone Symp., Signaling Systems: Chemistry, Biology and Pathology (E4), 55 (2001)
148. S. Raffioni, T. Wang, B. Enderle, B. Apostol, W. R. Wilcox, R. A. Bradshaw and L. M. Thompson, “*Gene Expression Changes Caused by Skeletal Dysplasia Mutations in FGFR3*”, Absts. Keystone Symp., Signaling Systems: Chemistry, Biology and Pathology (E4), 41 (2001).
149. R. A. Bradshaw, “*Neurotrophic Factor Signaling and Cell Death: An Overview*”, Int. J. Dev. Neurosci. 19, 697 (2001).
150. R. A. Bradshaw, D. R. Tyson, C. De-Fraja, S. Cermelli, Y. Y. Wu, E. D. Foehr, S. Kim, Y. Hamai, S. Raffioni and L. M. Thompson, “*Receptor Tyrosine Kinases: Targets for Proteomic Analyses*”, Absts. 5th Siena Mtg., “*From Genome to Proteome: Functional Proteomics*,” p. 119 (2002).
151. R. A. Bradshaw, “*Proteomics Today, Proteomics Tomorrow*”, Absts Cong. Soc. Francais Electrophoresis and Analytical Proteomics, (2002).
152. R. A. Bradshaw, “*Proteomics: Perceptions, Problems and Promises*”, Absts National Hemophilia Foundation, Salt Lake City, (2003).

153. R. A. Bradshaw, “*Proteomics: Perceptions, Problems and Promises*”, Absts FASBMB Congress, Yaounde, Cameroon (2003).
154. R. A. Bradshaw, “*Methionine aminopeptidase 2: A target for anti-angiogenic tumor therapy*”, Absts Journee Lilloise de Cancerologie, Lille, 3 (2004).
155. R. A. Bradshaw, “*Methionine aminopeptidase 2: A target for anti-angiogenesis*”, FASEB J. 18, C119 (2004).
156. R. A. Bradshaw and D. R. Tyson, “*Receptor Oligomerization: Constitutive or Induced*”, Absts ComBio2005 21, (2005).
157. R. A. Bradshaw, A. Burlingame, S. Carr, “*Protein Identification Guidelines: A Progress Report*”, Abstracts, ABRF '06 Mtg, 151 (T23), 2006.
158. R. A. Bradshaw, “*Proteomics: Perceptions, Promises and Pitfalls*”, Program 2006 AAAS Annual Mtg, 60, 2006.
159. R. A. Bradshaw, P. Ruperez, J. C. Trinidad, D. R. Tyson, K. F. Medzihradszky and A. L. Burlingame “*Expression Proteomics: Elucidating Signal-generated Protein Modifications*”, Abst. Congres de La SFEAP, St. Malo, France, L4 (2006).
160. R. A. Bradshaw, “*Proteomics and Disease: Reality and Myth*” Proc. Australian Health and Medical Research Congress, Melbourne, Australia, #454, (2006).
161. R. A. Bradshaw, “*Receptor Oligomerization: Constitutive or Induced?*” Neurones and Neural Growth Factors: Past to the Future”, A Symposium to Honour the Career of Ian Hendry, Canberra, Australia, (2006).
162. R.A. Bradshaw, K. F. Medzihradszky, J. Oses and A. L. Burlingame, “*Expression Proteomics: Elucidating Signal-Generated Protein Modifications*”, HUPO 6th Annual World Congress Program Book, P.272 (SY7-4) (2007).
163. R. A. Bradshaw, “*Progress in Proteomics: Today's Problems, Tomorrow's Solutions*” Absts. HUPO 3rd Human Proteome Project Workshop, p16 (2009).
164. R. A. Bradshaw, R. J. Chalkley, and A. L. Burlingame, “*Progress in Proteomics: What's Wrong and What's Not*”, Absts SMAP, Dijon, France, 31 (PL01) (2009).
165. R. A. Bradshaw, “*Setting Proteomic Publication Guidelines: Experiences with Molecular & Cellular Proteomics*” Absts HUPO 8th Annual Mtg, Toronto, Canada, L113 (2009).
166. R. A. Bradshaw, “*Stem Cell Proteomics: Prospects, Problems and Payoffs*”, Absts 1st Conf. Stem Cells and Regenerative Medicine, Riyadh, Saudi Arabia, p.43 (2009).
167. R. A. Bradshaw, “*Stem Cell Proteomics: Progress, Problems and Prospects*”, Absts 5th Int'l Conf. “Genomics, Proteomics, Bioinformatics and Nanobiotechnology for Medicine”, St. Petersburg, Russia, p 55 (2010).

168. R. A. Bradshaw, J. Biarc, R. J. Chalkley and A.L. Burlingame “*Receptor Tyrosine Kinase (RTK) Proteomics: Problems, Progress and Prospects*” Absts. HUPO2010, Sydney, Australia, p8-9 (OS004), (2010).
169. J. Biarc, R. Chalkley, A. Burlingame and R. A. Bradshaw “*Characterization of the tropomyosin-related receptor kinase A (TrkA) downstream phosphoproteome*”, Absts ASBMB Fall Workshop, “Post Translational Modifications: Detection and Physiological Evaluation”, P54 (#43) (2010).
170. J. Biarc, R. J. Chalkley, A. L. Burlingame, and R. A. Bradshaw, “*Dissecting Signaling Through the Tropomyosin-related Receptor Kinase A (TrkA)*” Absts. Keystone Symp “The evolution of Protein Phosphorylation”, Keystone, CO, p.70 (#111), 2011.