

CURRICULUM VITAE

BRIAN HERBERT BLAND

BORN: Calgary, Alberta, Canada, July 10, 1943
CITIZENSHIP: Canadian
MARRIAGE: Cheryl Elaine Bland, July 4, 1964
CHILDREN: Colleen Leanne Bland and Kevin Herbert Bland

EDUCATION:

ACADEMIC:

University of Alberta
Calgary, Alberta
B.Sc., 1966

University of Calgary
Calgary, Alberta
M.Sc., 1968

Supervisor: Dr. R.M. Cooper

University of Western Ontario
London, Ontario
Ph.D., 1971

Supervisor: Dr. C.H. Vanderwolf

Institute of Neurophysiology
University of Oslo
Karl Johans Gt. 47
Oslo 1, Norway
NATO Science Fellow

Supervisor: Dr. Per Andersen

ADMINISTRATIVE:

University Management Course, Center for Higher Education Research and Development (CHERD) Certification, 1995.

EXPERIENCE:

NATO Post-Doctoral Fellow
Institute of Neurophysiology
Karl Johans Gt. 47, Oslo, Norway

1971-1973

Assistant Professor
Department of Psychology
University of Saskatchewan
Saskatoon, Saskatchewan, Canada

1973-1974

Assistant Professor
Department of Psychology

University of Calgary
2500 University Dr. N.W.
Calgary, Alberta, Canada T2N 1N4 1974-1977

Visiting Research Professor
Institute of Neurophysiology
Karl Johans Gt. 47, Oslo, Norway 1977

Associate Professor
Department of Psychology
University of Calgary
2500 University Dr. N.W.
Calgary, Alberta, Canada T2N 1N4 1977-1981

Professor
Department of Psychology
University of Calgary
2500 University Dr. N.W.
Calgary, Alberta, Canada T2N 1N4 1981-

Professor 2007 -
Hotchkiss Brain Institute
Faculty of Medicine
Movement Disorders Group

SCHOLARSHIPS, AWARDS and HONOURS:

First Class Standing Award 1965-1966
University of Alberta, Calgary, Alberta

Gold Medal, B.Sc. for Highest B.Sc. Graduating Average. 1966 1965-1966
University of Alberta, Calgary, Alberta

National Research Council of Canada Bursary 1967-1968
University of Calgary, Calgary, Alberta

National Research Council of Canada Scholarship 1968-1969
University of Calgary, Calgary, Alberta

National Research Council of Canada Scholarship 1969-1970
University of Western Ontario, London, Ontario

National Research Council of Canada 1971-1973
Post-Doctoral Fellowship NATO Science Fellow
Institute of Neurophysiology, Karl Johans
Gt. 47, Oslo, Norway

Inducted into the American Men and Women of Science 1976

Queen's Silver Jubilee Tribute Award to Young Canadians Achieving Excellence in the Arts and Sciences	1977
Inducted into Alberta Who's Who	1978
Killam Resident Fellowship	1985
Natural Sciences and Engineering Research Council of Canada International Scientific Exchange Award	1990
Alberta Heritage Foundation for Medical Research Visiting Lecturer Award	1990
Distinguished Teacher Award (Faculty of Social Sciences)	1990
Killam Resident Fellowship	1991
Founding Board Member of the International Journal HIPPOCAMPUS.	1991
Canadian Council on Animal Care Award of Excellence For Large Universities.	1994
Graduate Student's Association Teaching Excellence Award (Honorable Mention)	1996
Alberta Heritage Foundation for Medical Research Visiting Lecturer Award	2002
Appointed Reviewing Editor for the International Journal HIPPOCAMPUS.	2002
Nominated for the Davimos Family Eminent Scholar Chair In Brain Science at Florida Atlantic University. Declined.	2002
Inducted in to the Canadian Who's Who	2003
Natural Sciences and Engineering research Council of Canada 25 th Silver Anniversary Award for 25 years of Continuous NSERC Funding.	2004
Appointed Editorial Board of the International Journal of Cognitive Informatics and Natural Intelligence.	2005
Re-appointed as Reviewing Editor for HIPPOCAMPUS	2006

Faculty of Social Sciences Research Fellowship Award	2007
Faculty of Social Sciences Distinguished Research Award	2007
Appointed International Editorial Advisory Board of Advances in Cognitive Informatics and Natural Intelligence (ACINI) Book Series.	2007
Killam Resident Fellowship	2008

TEACHING EXPERIENCE:

Introductory Psychology 101
 Introductory Psychology 205
 Advanced Perception and Cognition 365
 Physiology and Human Behavior 375
 Behavioral Pharmacology 379
 Physiological Psychology 476
 Physiological Psychology 675
 Psychology 504.67 (Advanced Behavioural Neurosciences)
 Psychology 505.67 (Senior Behavioural Neurosciences)
 Psychology 603.67 (Behavioural Neurosciences I)
 Medical Science 606
 Medical School (Second Year Medical Students-Neurophysiology Section)
 Neuroscience Research Group Seminars--University of Calgary Medical School
 Psychology 631 - Graduate Course in Advanced Behavioural Neurosciences.
 Psychology 732 - Graduate Course in Advanced Behavioural Neurosciences.

GRADUATE STUDENT SUPERVISION

Master's Level

- MSc Oddete Marie Leblanc - 1976-1978
 Developmental Aspects of Hippocampal Electrical Activity and Motor Behavior in the Rat.
- MSc Barbara Creery - 1976 - 1979
 The Ontogeny of Dentate Hippocampal Electrical Activity and Motor Behavior in the Rabbit.
- MSc Michael G. Seto - 1980 - 1982
 Hippocampal Dentate Layer Theta Cell Activity: Relations to Slow Wave Activity and Motor Behavior in the Freely Moving Rabbit.

- MSc Brian R. Sinclair - 1980 - 1982
Theta Cells in the CA1 Layer of the Hippocampal Formation: Relations To Slow Wave Activity and Motor Behavior in the Freely Moving Rabbit.
- M.Sc. Carol I. Rowntree - 1982 - 1984
An Analysis of the Cholinergic Mediation of Type 2 Theta Activity in the Rat Hippocampus.
- M.Sc. Susan K. Bland - 1983 - 1985
An Assessment of Medial Septal Input to Hippocampal Theta Cells: Effects on Firing Patterns and Behavioral Correlates.
- MSc Sylvie Roquet - 1985 - 1987
Anticholinergic Manipulation of Hippocampal Theta Rhythm and Theta Cells in Freely Moving Rabbits.
- MSc Richard Ford - 1986 - 1988
Spontaneous and Electrically Induced Activity of Medial Septum/Diagonal Band Neurons.
- MSc Brian R. Christie - 1986 - 1989
An Investigation of a Hypothalamic - Septal - Hippocampal Pathway in the Urethane Anesthetized Rat.
- MSc Victoria H. Lawson - 1989 - 1992
The Septal Control of Hippocampal Field Activity in the Freely Moving Rat: An Investigation Using Anesthetic and Cholinergic Agents
- MSc Scott Oddie - 1990 - 1992
The Role of the Posterior Hypothalamus in Hippocampal Synchrony.
- MSc Darren Scarlett - 1995 - 2001
The Effect of Medial Septal Stimulation on Hippocampal Neuronal Activity.
- MSc Nicholas Hallworth – 1998 –2001
Hippocampal Theta-Related Properties of the Basal Ganglia.
- MSc Audny Dypvik - 2000 – 2003
Cellular Discharges in the Red Nucleus Signal Both Onset and Frequency of Hippocampal Theta Field Activity.
- MSc Shandra DeClerk - 2000 – 2005
Septohippocampal properties of N-Methyl-D-Aspartate–induced theta-band oscillation and synchrony.
- MSc Jesse Jackson – 2005 - 2007

Desynchronizing effects of medial raphe stimulation on hippocampal field and cellular activity.

- MSc Robert Crooks – 2006 –
Pharmacological and electrophysiological analysis of the median raphe nucleus.
- MSc Patricia Mestek – 2006 –
Pharmacological manipulations of the medial septal nucleus during a jump avoidance task.

PhD Level

- PhD James W. Smythe - 1987 - 1990
Hippocampal Formation Theta Field and Cell Activities Are Controlled By Cholinergic and GABergic Systems.
- PhD Clayton T. Dickson - 1990 - 1994
The Extrinsic Modulation of Entorhinal Cortex Theta: Field and Unit Activity Studies.
- PhD Scott D. Oddie - 1992 - 1996
Hippocampal Formation Theta Field Activity and Movement Selection
- PhD Calvin Young – 2006 –
Hippocampal-striatal interactions.

Supervisory and Examining Committees

Gary Gerber, MSc, University of Saskatchewan, Committee
 Anne Hendrie, MSc, Medicine, University of Calgary, Committee
 Simon Chiu, MSc, Medicine, University of Calgary, Committee
 Victor Bulger, MSc, Medical Physiology, University of Calgary, Committee
 Anita North, MSc, Medical Physiology, University of Calgary, Committee
 Thomas Dalby, PhD, Candidacy Examination, Examiner
 Arvydas Krausas, MSc, Electrical Engineering, University of Calgary, External Examiner
 Norman W. Kasting, MSc, Medical Science, University of Calgary, Candidacy Examination, External Examiner
 Odette Leblanc, PhD, Psychology, Candidacy Examination, Examiner
 Judith Kaganov, PhD, Psychology, Committee
 Bruce M. MacIver, MSc, Pharmacology and Therapeutics, External Examiner
 Gloria Miller, MSc, Psychology, Committee
 Anne M. Mahoney, MSc, Psychology, Committee
 Norman W. Kasting, PhD, Medical Science, University of Calgary, External Examiner
 Alastair Ferguson, PhD, Medical Physiology, Candidacy Examination, External Examiner
 Diane Burnard, MSc, Medical Physiology, Committee
 Gen Thurlow, MSc, Psychology, Committee
 Betsy Mustard, MSc, Medical Physiology, External Examiner
 Debbie Stuart, MSc, Psychology, Examiner

Diane Burnard, PhD, Medical Physiology, Committee
Maeve O'Beirne, PhD, Medical Physiology, Committee
Elaine Colebrook, MSc, Medical Physiology, Committee
Mariane Taylor, MSc, Pharmacology and Therapeutics, Committee
Bruce M. McIver, PhD, Pharmacology and Therapeutics, Committee
Jean E. Disturnal, MSc, Medical Physiology, External Examiner
Chris Montoya, MSc, Psychology, Committee
Joanne W. Goh, PhD, Department of Pharmacology and Therapeutics, University of British Columbia, External Examiner
Susan Alexander, MSc, Department of Medical Physiology, University of Calgary, External Examiner
Dwight J. Stewart, PhD, Department of Psychology, University of Western Ontario, External Examiner
Erika Ebly, MSc, Medical Physiology, University of Calgary, External Examiner
Tim Watson, PhD, Candidacy Exam, Medical Physiology, University of Calgary, External Examiner
Peter Faris, MSc, Psychology, Examiner
Perry B. Glimpel, MSc, Psychology, Committee
Arnold Heynen, MSc, Psychology, Committee
Heidi Paul, MSc, Psychology, Examiner
Curtis Ponton, PhD, Psychology, Committee
Peter Williams, PhD, Medical Physiology, External Examiner
Tim Watson, PhD, Medical Physiology, External Examiner
Steven Duffy, PhD, Candidacy Exam, Medical Physiology, University of Calgary, External Examiner
Jag Kohli, MSc, Pharmacology and Therapeutics, University of Calgary, Faculty of Medicine, External Examiner
Alison Willing, PhD Candidacy Exam, Medical Physiology, Faculty of Medicine, University of Calgary, External Examiner
Paolo Federico, PhD, Candidacy Exam, Medical Physiology, University of Calgary, External Examiner
David Brown, PhD, Candidacy Exam, Psychology, Examiner
Piotr Kruk, PhD, Neuroscience, External Examiner
Douglas Fraser, PhD, Candidacy Exam, Medical Physiology, External Examiner
Steven Duffy, PhD, Medical Physiology, External Examiner
Kim Burggraf, MSc, Medical Physiology, External Examiner
Atula Gupta, MSc, Electrical and Computing Engineering, External Examiner
Rodney Reitz, MSc, Pharmacology and Therapeutics, External Examiner
Douglas Fraser, PhD, Medical Physiology, External Examiner
Bradley Hampel, MSc, Neuroscience, External Examiner
Trevor Gilbert, PhD, Candidacy Exam, Department of Psychology, Examiner
Pamela Valentine, MSc, Department of Psychology, Examiner
Peter Dickson, PhD, Biological Sciences, Examiner.
Trevor Gilbert, PhD, Department of Psychology, Examiner.
Robin Gibb, MSc, Department of Psychology, Neuroscience Program, University of Lethbridge, Examiner.
Liza Noonan, MSc, Medical Physiology, External Examiner.
Emeke Enwere, MSc, Neuroscience, External Examiner.

Craig Brown, PhD Candidacy Exam, Department of Psychology, Examiner.
 Dustin Hines, MSc, Neuroscience and Psychology, Lethbridge University, External Examiner.
 Brent Kuzmiski, PhD, Neuroscience, Internal External Examiner.
 Corey Flynn, PhD, Department of Psychology, Internal Examiner, Candidacy Exam.
 Luke Henry, MSc, Department of Psychology, Committee Member.
 Nicole Young, PhD, Department of Psychology, Examiner, Candidacy Exam.
 Cameron Cunningham, MSc, Neuroscience and Medicine, Committee Member.
 Michael Galic, PhD, Neuroscience and Medicine, Internal External, Candidacy Exam.
 Trish Wolansky, Department of Psychology, Neuroscience Program, External Examiner,
 PhD Candidacy Exam, University of Alberta.
 Steven Peters, MSc, Faculty of Medicine, Department of Neuroscience, University of
 Calgary, Internal-External Examiner.
 Qianzhou Wang, PhD. Faculty of Medicine, Department of Neuroscience, University of
 Calgary, Internal-External Examiner.
 Trudi Strickland, Faculty of Medicine, Department of Neuroscience, University of Calgary,
 Examiner, Candidacy Exam.
 Mohammed El-Fateh Zaamount, MSc, Faculty of Medicine, Department of Neuroscience,
 External Examiner.
 Victoria Smith, MSc, Department of Psychology, Examiner.
 Damon Mitchell, PhD, Department of Psychology, University of Otago, New Zealand,
 Overseas External Examiner.
 Laura Higgins, University of Calgary, Kinesiology, External Examiner.

POST-DOCTORAL FELLOWS:

Dr. Robert M. Zacharko - University of Saskatchewan
Dr. Luis Colom - Medical School of Montevideo, Uruguay
Dr. Ian Kirk - University of Otago, Dunedin, New Zealand

VISITING SCIENTISTS:

Dr. I. Q. Wishaw - University of Lethbridge
Dr. G. Buzsaki - Pecs Medical School, Hungary
Dr. Jan Konopacki - University of Lodz, Poland
Dr. Siham Nassif-Caudarella - Universite Pierre et Marie Curie (Paris VI), Paris, France
Professor Yasuhiro Hanada, Meiji Gakuin University, Laboratory of Psychology, 1518,
 Kamikurata, Totsuka, Yokohama 244 Japan
Professor Kiyohisa Natsume, Kyushu Institute of Technology, Department of
 Biochemical Engineering and Science, Iizuka, Fukuoka 820 Japan

SOCIETY MEMBERSHIPS:

Canadian Physiological Society
 Society for Neuroscience
 American Association for the Advancement of Science
 New York Academy of Sciences
 International Society for Developmental Psychobiology

Annual Spring Conference on Behavior and Brain - Founding Member
 International Brain Research Organization (IBRO)/World Federation of Neuroscientists (WFN)
 Canadian Society for Brain, Behavior and Cognitive Sciences (CSBBCS)
 Hotchkiss Brain Institute, Faculty of Medicine, University of Calgary, Member, Movement Disorders Group

GRANTS:

Presidents NRC Grant. \$1,864
 September 1, 1974 to September 1, 1975. Physiological and pharmacological investigation of hippocampal formation function.

National Research Council of Canada. \$15,000
 April, 1975 to April, 1978. Electrophysiological and pharmacological investigation of hippocampal formation function.

Presidents NRC Grant. \$1,405
 August, 1977 to October, 1977. Travel to Institute of Neurophysiology, Oslo, Norway, as an invited Research Fellow.

Natural Sciences and Engineering Research Council of Canada. \$30,000
 April, 1978 to April 1981. Electrophysiological and pharmacological investigation of hippocampal formation function.

Presidents NRC Grant. \$3,500
 May, 1979 to April, 1980. Effects of anaesthetics on isolated mammalian brain tissue.

Natural Sciences and Engineering Research Council of Canada. \$53,598
 April, 1981 to April, 1984. Electrophysiological and pharmacological investigation of hippocampal formation function.

Presidents NRC Grant. \$2,000 Conference Grant
 July 5 - July 7, 1982. The Western Hippocampus: Theoretical and Methodological Issues.

Alberta Heritage Foundation for Medical Research. \$15,883
 Equipment Grant

Natural Sciences and Engineering Research Council of Canada. \$99,357
 April, 1984 to April, 1987. Electrophysiological and pharmacological investigation of hippocampal formation function.

Natural Sciences and Engineering Research Council of Canada. \$36,157
 Equipment Grant

Natural Sciences and Engineering Research Council of Canada. \$126,000

April, 1987 to April, 1990. Electrophysiological and pharmacological investigation of hippocampal formation function.

Natural Sciences and Engineering Research Council of Canada. \$13,568
April, 1988 to April, 1990. Equipment Grant

Natural Sciences and Engineering Research Council of Canada. \$143,460
April, 1990 to April, 1993. Electrophysiological and pharmacological investigation of hippocampal formation function.

Alberta Career Development S.T.E.P. Grant, 1991. \$3,000

Natural Sciences and Engineering Research Council of Canada. \$191,280
April, 1993 to April, 1997. Electrophysiological and pharmacological investigation of hippocampal formation function.

Natural Sciences and Engineering Research Council of Canada. \$21,101
April, 1993 to April, 1996. Equipment Grant

Natural Sciences and Engineering Research Council of Canada. \$194,040
April, 1997 to April, 2001. Electrophysiological and pharmacological investigation of hippocampal formation function.

Natural Sciences and Engineering Research Council of Canada. \$18,909
April, 1997. Equipment Grant.

Canadian Foundation for Innovation – Co-Investigator. \$195,000

Dean's Research Stipend - \$50,000.00 July 1, 1995 – July 1, 2000.

Dean's Research Stipend - \$5,000.00 July 1, 2001

Research Excellence Envelope Award - \$5,000.00 July 1, 2001

Research Excellence Envelope Award - \$5,000.00 July 1, 2002

Research Excellence Envelope Award - \$5,000.00 July 1, 2003

Natural Sciences and Engineering Research Council of Canada. \$245,000
April, 2001 to April, 2006. Electrophysiological and pharmacological investigation of hippocampal formation function.

Natural Sciences and Engineering Research Council of Canada. \$45,000
April 2006 to April 2007. Electrophysiological and pharmacological investigation of hippocampal formation function.

Natural Sciences and Engineering Research Council of Canada. \$45,000

April 2007 to April 2008. Electrophysiological and pharmacological investigation of hippocampal formation function.

Natural Sciences and Engineering Research Council of Canada. \$249,680.00
 April 2008 to April 2012. Electrophysiological and pharmacological investigation of hippocampal formation function.

PROFESSIONAL ACTIVITIES:

Editorial Boards

Hippocampus - Churchill - Livingstone Publishers. Charter Member, 1989 –1991.
 Hippocampus – John Wiley & Sons Publishers. 1991 – present.
 Brain Research - Invited Guest Referee - 1992.
 Hippocampus – Appointed Reviewing Editor – December 19, 2002.
 International Journal of Cognitive Informatics and Natural Intelligence – Appointed Reviewing Editor – September 24, 2005.
 International Editorial Advisory Board of – February 2007 Advances in Cognitive Informatics and Natural Intelligence (ACINI) Book Series.

Referee Experience

Alberta Mental Health Research Fund
 Behavioral Brain Research
 Behavioral and Cognitive Neuroscience Reviews
 Brain Research
 Brain Research Bulletin
 British Columbia Health Care Research Foundation
 Canadian Journal of Higher Education
 Canadian Journal of Physiology and Pharmacology
 Cognitive Affective and Behavioral Neuroscience
 Canadian Institute for Health Research
 Electroencephalography and Clinical Neurophysiology
 European Journal of Neuroscience
 Experimental Brain Research
 Experimental Neurology
 FCAR - Fonds pour la Formation de Chercheurs et l'Aide à la Recherche
 Hippocampus
 Hormones and Behavior
 International Human Frontier Science Program
 International Journal of Cognitive Informatics and Natural Intelligence.
 Journal of Neurophysiology
 Journal of Neuroscience
 Journal of Neuroscience Methods
 Journal of Neuroscience Research
 Journal of Pharmacology and Experimental Therapeutics
 Learning and Motivation

Medical Research Council of Canada
 Medical Research Council of New Zealand, The
 National Medical Research Council - Singapore
 National Science Foundation - Washington, D.C.
 Natural Sciences and Engineering Research Council of Canada
 Neurobiology of Aging
 Neurological Foundation of New Zealand
 Neuropsychopharmacology
 Neuroreport
 Neuroscience
 Neuroscience and Biobehavioral Reviews
 Neuroscience Letters
 Pain (International Association for the Study of Pain)
 Pharmacology (International Journal of Experimental and Clinical Pharmacology)
 Pharmacology, Biochemistry and Behavior (International Journal)
 Physiology and Behavior
 Proceedings of the National academy of Sciences (PNAS)
 Program Committee ICCI 2004 - The 3rd IEEE International Conference on Cognitive Informatics.
 Program Committee ICCI 2005 - The 4th IEEE International Conference on Cognitive Informatics.
 Program Committee ICCI 2006 - The 5th IEEE International Conference on Cognitive Informatics.
 Program Committee ICCI 2007 - The 6th IEEE International Conference on Cognitive Informatics.
 Program Committee ICCI 2008 - The 7th IEEE International Conference on Cognitive Informatics.
 Progress in Neurobiology
 Psychobiology
 Reviews in Clinical Neurobiology
 Science
 Synapse
 Theory and Psychology
The Wellcome Trust - London, England.
 The Canada Council for the Arts (Killam Research Fellowship)
 The Michael Smith Health Research Foundation of British Columbia
 Trends in Cognitive Sciences

Text Book and Program Review Experience

Psychology, 2nd Edition, Henry L. Roediger III, J. Philippe Rushton, Elizabeth D. Capaldi and Scott G. Paries, Little, Brown and Company, 1986.

International Reviewer for the Application for Recognition by the University of Paris VII of the "Psychopharmacology and Cognitive Processes" Team. Team Leader: Professor Paul Monmaur, 1996.

Book Reviews

Bland, B.H. Neural integration of physiological mechanisms and behavior: J. A. F. Stevenson Memorial Volume, by Gordon J. Mogenson and Franco R. Calaresu (Eds.). University of Toronto Press, 1975. In Canadian Psychological Review, 1975, 16(4).

Bland, B.H. The Pharmacologic Basis of Psychotherapeutics. An Introduction for Psychologists. Louis A. Pagliaro and Ann Marie Pagliaro (1998). Washington, DC: Francis & Taylor. In Canadian Psychology, Volume 40:4, November, 1999.

Consulting

Consultant in successful N.I.H. application for a S.C.O.R.E. (Support for Continued Research Excellence) grant for the Neuroscience Program, University of Texas, Brownsville. 2002-2007.

Administrative Experience

National Level

Natural Sciences and Engineering Research Council of Canada
Psychology Grants Committee - Appointed for 3-year term, 1982-1985.

Canadian Council on Animal Care - Assessment Panel Member - University of Lethbridge, September, 1991.

Canadian Council of Animal Care - Chairman, Assessment Panel, University of Victoria, September, 1993.

Canadian Council of Animal Care - Chairman, Assessment Panel, University of Saskatchewan, Saskatoon, SK, 1996.

Canadian Council of Animal Care - Chairman, Assessment Panel, University of British Columbia, 1997.

Canadian Council of Animal Care – Chairman, Assessment Panel, University of Victoria, 1999.

Provincial Level

Advisory to the Animal Care Legislation Review Committee, Chaired by Mr. Neil Henry, Assistant Deputy Minister, Operations Division, Advanced Education, The Government of Alberta.

Alberta Science and Research Authority, Invited participant (Phase 1) in determining science and research priorities for Alberta.

University Level

General Faculties Council	1981-1982
Faculty of Science Animal Care Committee	1974-1989
Faculty of Science Technical Services Advisory Committee	1974-1990
Graduate Scholarships Committee	1987-1989
Chairman, University Animal Welfare Committee	1989-1992
NSERC Scholarships Sub-Committee	1987-1988
Pre-screening Scholarships Sub-Committee	1988-1989
Graduate Assistantship Schedule Sub-Committee	1988-1989
Ad Hoc Committee to Review the Biomedical Engineering Proposal	1991
Alberta Heritage Foundation for Medical Research University Subcommittee	1991-1992
Co-Chairman, (with Vice-President Research) University Animal Welfare Committee	1992-1995
Heads Steering Committee	1995-1997
Head's Forum	1995-2000
Review of Neuroscience Research Group – Member of Review Panel. Faculty of Medicine	2000
Head's Forum	2001-2006

Faculty Level

Academic Planning Committee	1980-1983
Executive Council	1982-1984
Coordinator - Animal Care Facility Renovations	1988-1989
Headship Election Advisory Committee	1990
The Margaret Gunn Endowment for Animal Research Awards Committee - Founding Member setting terms	1994-1996

of reference.

Social Sciences Executive Council	1995- 2000
Social Sciences Full Council	1995-2000
Social Sciences Executive Council	2001-2006
Social Science Full Council	2001-2006
Chair, Scholarly Integrity Inquiry Committee, Faculty of Social Sciences.	2005

Departmental Level

Graduate Admissions	1974-1975 & 1976-1977
Open House Coordinator	1977
Supervisor - Computer and Technical Facilities	1980-1984
Undergraduate Advisor	1983-1984
Research Advisory Committee	1983-1985
Behavioral Neurosciences Area Representative	1987-1988
Behavioral Neuroscience Seminar Convener	1987-1988
Head's Department Advisory Committee	1987-1988
Department Planning Committee	1988-1990
Behavioral Neuroscience Area Rep.	1990-1991
Behavioral Neuroscience Seminar Convener	1990
Director of Resources (Res. & Teaching)	1993-1995
Behavioral Neuroscience Seminar Convener	1994
Associate Head, Dept. of Psychology	1994-95
Acting Head, Dept. of Psychology	1994-1995 (Periodically)
Head, Dept. of Psychology	1995-2000
Chair, Performance Review Committee	1995-2000

Chair, Department Executive Committee	1995-2000
Chair, Performance Review Committee	2001-2006
Chair, Department Executive Committee	2001-2006
Acting Director of Resources (Teaching & Research)	1998 (Summer)
Acting Director of Program in Clinical Psychology	1998 (Summer)
Acting Director of Graduate Program	1998 (July 1-December 31)
Head, Dept of Psychology (re-appointed for 5 year term) March 6, 2000	2000 – 2006.

Community Service

Lecture - Psychiatric Interns - Holy Cross Hospital
 Lecture - Grade 12 Classes - James Fowler High School
 Lecture - Grades 10 & 11 Classes - Airdrie High School
 Science demonstrations - Dalhousie Cub Pack
 Lecture & Laboratory Tour - Grade 12 Class, Forest Lawn High School
 Lecture - "Parkinson's Disease" & Laboratory Tour - Grade 11 Class, Lord Beaverbrook High School.
 President, New Wood Resident's Society, 1999- 2002.
 Lecture & Laboratory Tour – Grade 11 & 12 Class, Cochrane High School, 1999.

Recreational Activities

Fishing, hunting, camping, hiking, guitar and harmonica.

Musical Public Appearances:

The Gradual Stupids Band – University Grad Lounge – The University of Calgary.
 Pick'n Sticks Band – Canadian Neuroscience Institute – Lethbridge, AB
 Kelly Cavanaugh – Guest (along with Beverley Mahood and Jason Macord) – The Blue Dog Café – Cochrane, AB
 The Blue Dog Café -Tim Erickson - Guest – Cochrane, AB
 The Weeds Jam – Weeds Café – Calgary AB
 The Manhattan Pub Jam – Brian and Kevin Bland

Invited Addresses

Bergen University - Dept. of Physiology, Bergen, Norway, 1971.

Gaustad Hospital - Norwegian Society for Clinical Neurophysiology, Oslo, Norway, 1971.

Dalhousie University - Dept. of Physiology and Biophysics, Halifax, Nova Scotia, 1973.

University of Western Ontario - Dept. of Psychology, London, Ontario, 1973.

McMaster University - Dept. of Psychology, Hamilton, Ontario, 1973.

University of Saskatchewan - Dept. of Psychology, Saskatoon, Saskatchewan, 1977.

University of Lethbridge - Dept. of Psychology, Lethbridge, Alberta, 1981.

University of Western Ontario - Dept. of Psychology, London, Ontario, 1981.

Memorial University - Neurosciences Group, St. John's, Newfoundland, 1981.

University of Victoria - Dept. of Psychology, Victoria, B.C., 1982.

University of Western Ontario - Dept. of Psychology, London, Ontario, 1986.

University of Lodz - Dept. of Animal Physiology, Lodz, Poland, 1988.

University of Warsaw - Dept. of Psychology, Warsaw, Poland, 1988.

Nencki Institute - Neurophysiology Dept., Warsaw, Poland, 1988.

University College - Dept. of Anatomy, London, England, 1988.

University of Calgary - Dept. of Psychology, Calgary, Alberta, 1990.

University of Victoria - Dept. of Psychology, Victoria, B.C., 1990.

University of Calgary - Dept. of Medical Physiology, Neuroscience Research Group, 1991.

University of British Columbia - Neuroscience Division, 1991.

Stanford University - Department of Anesthesia, 1992.

Stanford University - Neurosciences Research Program, 1992.

University of Victoria - Department of Psychology, Victoria, B.C., 1997.

University of Calgary - Behavioural Neuroscience Research Group, 1997.

University of Calgary – Behavioral Neuroscience Research Group, 1998.

University of Calgary - Behavioral Neuroscience Research Group, 1999.

Houston Texas Medical Center, Baylor College of Medicine, - Neuroscience Research Program, 1999.

University of Alberta – Center for Neuroscience. Sponsored by The Alberta Heritage Foundation for Medical Research, 2002.

University of Western Ontario- Invited Speaker, Neuroscience Seminar Series, 2003.

University of Calgary - Behavioral Neuroscience Research Group, 2004.

University of Texas, Brownsville – Invited speaker in the Neuroscience Research Program, 2004.

Stanford University - Department of Anesthesia, 2004.

University of Calgary – Invited Speaker for “The Luminaries” Sigma Xi Society Lecture Series, 2004.

University of Calgary - Behavioral Neuroscience Research Group, 2005.

University of Calgary - Behavioral Neuroscience Research Group, 2006.

University of Alberta – Center for Neuroscience, 2007.

University of Calgary – Behavioral neuroscience Research Group, 2008.

SYMPOSIUMS AND ANNUAL MEETINGS:

Workshop on Hippocampal Function. Annual Meeting of the Canadian Psychological Association, Quebec City, 1975.

Symposium on Hippocampal Function. Downstate Medical Centre, Brooklyn, New York, 1980.

The Western Hippocampus: Theoretical and Methodological Issues. University of Calgary, Calgary, Alberta, 1982. Organized by B.H. Bland.

Is the Cell Mightier Than the Brain? Annual Meeting of the Canadian Psychological Association, Brain and Behavior Group, Winnipeg, Manitoba, 1983.

The Electrical Activity of the Archicortex. University of Pecs Medical School, Pecs, Hungary, September 5-7, 1984.

Studies on Hypothalamic Activation of the Cholinergic Septo-Hippocampal Pathway. First Annual Spring Meeting of Behavior and Brain Society, Banff, Alberta, April, 1986.

International Symposium of Neurosciences. Cellular Basis of Neural Integration, Montevideo-Solis, Uruguay, December 15-21, 1986.

Development of EEG Theta Rhythm in the "In Vitro" Hippocampal Slice Preparation. Second Annual Spring Meeting of Behavior and Brain Society, Banff, Alberta, April, 1987.

Cell Classifications of Theta-Related Neurons in the Hippocampal Formation, Cingulate Cortex and Medial Septum/Diagonal Band. Invited address. Third Annual Spring Meeting of Behavior and Brain Society, Whistler Mountain, British Columbia, April, 1988.

Application of a New Joint Peri-Stimulus - Time Scatter Analysis to Pairs of Medial Septal Neurons. Fourth Annual Spring Meeting of Behavior and Brain Society, Sunshine Village Resort, Banff, Alberta, April, 1989.

Medial Septal Modulation of Hippocampal Formation Theta-On and Theta-Off Cells. Fifth Annual Spring Meeting of Behavior and Brain Society, Sunshine Village Resort, Banff, Alberta, April, 1990.

Hippocampal Theta Activity: Synaptic, Cellular, Circuit and Behavioral Correlates. Twenty-Fifth Winter Conference on Brain Research, Steamboat Springs, Colorado, 1992.

What Does the Hippocampus Do, if Anything? Eighth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia, February 29, 1996.

Electrophysiological, Pharmacological, and Behavioral Studies of the Medial Septum: It's Role as the Nodal Point of the Ascending Brainstem Hippocampal Synchronizing Pathways. The Vanderwolf Symposium, Kananaskis, AB, May 1996. Organized by Brian and Cheryl Bland.

Septo-Hippocampal Neural Connectivity Underlying Hippocampal Synchrony. Ninth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia, March 13-15, 1997.

Medial septal modulation of hippocampal theta frequencies and running speeds induced by stimulation of the posterior hypothalamus. Tenth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia, February 26-28, 1998.

Modulation of intrinsic membrane potential oscillations in hippocampal neurons by spontaneous field potentials and intracellular current pulses. Eleventh Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia, February 25 -28, 1999.

Evidence for theta-band tuning curves in identified CA1 pyramidal cells. Twelfth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia, February 24-26, 2000.

Oscillatory properties of identified hippocampal interneurons. Thirteenth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia. February 22-24, 2001.

Evidence for GABA-mediated membrane potential oscillations in identified CA1 layer basket cells. Fourteenth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia. February 21-23, 2002.

Oscillatory properties of CA3 pyramidal cells. Fifteenth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia. February 13-15, 2003.

Hippocampal theta band oscillations related to jump avoidance in the freely moving rat. Sixteenth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia. February 12-14, 2004.

Heterogeneity of hippocampal pyramidal neurons revealed by their relation to theta band oscillation and synchrony. First Annual Neuroscience at the Border, Los Fresnos, TX, 2005.

Tribute to Professor Ian Q. Whishaw. Seventeenth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia. February 21- 25, 2005.

Septohippocampal properties of NMDA-induced theta band oscillation and synchrony. Eighteenth Annual Spring Meeting on Behavior and Brain, Fernie, British Columbia. February 25-27, 2006.

Septohippocampal properties of NMDA-induced theta band oscillation and synchrony. Second Annual Neuroscience at the Border, Los Fresnos, TX, 2006.

Mechanisms and significance of median raphe-induced hippocampal desynchronization. Third Annual Neuroscience at the Border, Brownsville, TX, 2007.

High frequency stimulation of the posterior hypothalamic nucleus restores movement and reinstates striatal-hippocampal theta coherence following haloperidol-induced catalepsy. Department of Clinical Neurosciences and Hotchkiss Brain Institute Mini-Symposium, Calgary, Alberta, 2008.

PUBLICATIONS:

Theses

Bland, B. H. Posterior-neocortical deafferentation in the rat. Age at operation and experience. Master's Thesis, University of Calgary, 1968.

Bland, B. H. Diencephalic and hippocampal mechanisms of motor activity in the rat. Doctoral Dissertation, University of Western Ontario, 1971.

Book Chapters and Reviews

1. Vanderwolf, C. H., **Bland, B. H.**, & Whishaw, I. Q. Diencephalic, hippocampal, and Neocortical mechanisms in voluntary behavior. In J. Maser (Ed.), Efferent organization and the integration of behavior. New York: Academic Press, 1972, 229-262.

2. Vanderwolf, C. H., Kramis, R., Gillespie, L. A., & **Bland, B. H.** Hippocampal rhythmical slow activity and neocortical low voltage fast activity: Relations to behavior. In K. H. Pribram and R. L. Isaacson (Eds.), The hippocampus: A comprehensive treatise. New York: Plenum Publishing Corp., 1975, 101-128.
3. **Bland, B. H.** Behavioral correlates and afferent control of hippocampal theta cell discharges. In G. Buzsaki and C. H. Vanderwolf (Eds.), The electrical activity of the archicortex. Pecs: Hungarian Academy of Sciences, 1985, 125-142.
4. **Bland, B. H.** The physiology and pharmacology of hippocampal formation theta rhythms. In J. W. Phillis (Ed.), Progress in Neurobiology, London, Pergamon Press, Ltd., 1986, 26, 1-54.
5. Smythe, J. W., Colom, L. V., & **Bland, B. H.** The extrinsic modulation of hippocampal theta depends on the coactivation of cholinergic and GABA-ergic medial septal inputs. Neuroscience & Biobehavioral Reviews, 1992, 16, 289-308.
6. **Bland, B. H.** & Colom, L. V. Extrinsic and intrinsic properties underlying oscillation and synchrony in limbic cortex. Progress in Neurobiology, London, Pergamon Press Ltd., 1993, 41, 157-208.
7. Wishaw, I.Q. & **Bland, B.H.**, Editors, Special Issue: Case Vanderwolf Festschrift Neuroscience and Biobehavioral Reviews, 1998, 22, 121-370.
8. **Bland, B.H.** & Oddie, S.D. Anatomical, electrophysiological, and pharmacological studies of the ascending brainstem hippocampal synchronizing pathways. Neuroscience & Biobehavioral Reviews, 1998, 22, 259-273.
9. Oddie, S.D. & **Bland, B.H.** Hippocampal theta activity and movement selection. Neuroscience & Biobehavioral Reviews, 1998, 22, 221-231.
10. Wishaw, I. Q. and **Bland, B. H.** Cornelius H. Vanderwolf: An Introduction. Neuroscience and Biobehavioral Reviews, 1998, 22, 121-123.
11. **Bland, B. H.** The Medial Septum: Node of the ascending brainstem hippocampal synchronizing pathways. In: The Behavioral Neuroscience of the Septal Region. Robert Numan, Editor, Springer-Verlag-NY, Inc., 2000, pp 115-145.
12. **Bland, B. H.** and Konopacki, J. Intracellular recording and staining in the acute *in vivo* rat using sharp electrodes. Kopf Carrier, 2000, 52, 1-6.
13. Konopacki, J., **Bland, B.H.**, & Dyck, R. Podstawowe techniki mikroelektrofizjologiczne w neurobiologii, 2000, Post. High. Med. Dosw, 54, 261-278.
14. **Bland, B.H.** and Oddie, S.D. Theta band oscillation and synchrony in the hippocampal formation and associated structures: the case for its role in sensorimotor integration. Behavioral Brain Research, 2001, 127, 119-136.

15. **Bland, B.H. Commentary.** The power of theta: providing insights into the role of the hippocampal formation in sensorimotor integration. Hippocampus, 2004, 14, 537-538.
16. **Bland, B.H.** Anatomical, physiological, and pharmacological properties underlying hippocampal sensorimotor integration. Chapter 12, pp 283- 325. In: Information Processing by Neuronal Populations, Editor(s) Christian Holtcher & Matthias Monk, Cambridge University Press, 2009.

Journal Articles

17. **Bland, B. H.,** & Cooper, R. M. Posterior-neodecortication in the rat. Age at operation and experience. Journal of Comparative and Physiological Psychology, 1969, 69, 345-354.
18. **Bland, B. H.,** & Cooper, R. M. Experience and vision of the posterior neodecorticate rat. Physiology and Behavior, 1970, 5, 211-214.
19. Cooper, R. M., **Bland, B. H.,** Gillespie, L. A., & Whitaker, R. H. Unilateral posterior neocortex and unilateral superior colliculus lesions and visually guided behavior in the rat. Journal of Comparative and Physiological Psychology, 1970, 72, 286-295.
20. **Bland, B. H.,** & Vanderwolf, C. H. Diencephalic and hippocampal mechanisms of motor activity in the rat. Effects of posterior hypothalamic stimulation on behavior and hippocampal slow wave activity. Brain Research, 1972a, 43, 67-88.
21. **Bland, B. H.,** & Vanderwolf, C. H. Electrical stimulation of the hippocampal formation: Behavioral and bioelectrical effects. Brain Research, 1972b, 43, 89-106.
22. Whishaw, I. Q., **Bland, B. H.,** & Vanderwolf, C. H. Hippocampal activity, behavior, self-stimulation, and heart rate during electrical stimulation of the lateral hypothalamus. Journal of Comparative and Physiological Psychology, 1972, 79, 115-127.
23. Wishart, T. B., **Bland, B. H.,** Vanderwolf, C. H., & Altman, J. L. Electroencephalographic correlates of behavior elicited by electrical stimulation of the septum: Seizure induced feeding. Behavioral Biology, 1973, 9, 763-769.
24. Andersen, P., **Bland, B. H.,** & Dudar, J. D. Organization of the hippocampal output. Experimental Brain Research, 1973, 17, 152-168.
25. Teyler, T., **Bland, B. H.,** & Schulte, R. A chronic micro-recording and stimulating system. Physiology and Behavior, 1974, 12, 503-506.
26. **Bland, B. H.,** Kostopoulos, G., & Phillis, J. W. Acetylcholine sensitivity of hippocampal formation neurons. Canadian Journal of Physiology and Pharmacology, 1974, 52, 966-971.
27. **Bland, B. H.,** Andersen, P., & Ganes, T. Two generators of hippocampal theta activity in rabbits. Brain Research, 1975, 94, 199-218.

28. Kramis, R., Vanderwolf, C. H., & **Bland, B. H.** Two types of hippocampal rhythmical slow activity (RSA) in both the rabbit and the rat: Relations to behavior and effects of atropine, diethyl ether, urethane and pentobarbital. Experimental Neurology, 1975, 49, 58-85.
29. Wishaw, I. Q., **Bland, B. H.**, Robinson, T. E., & Vanderwolf, C. H. Neuromuscular blockade: The effects on two hippocampal RSA (theta) systems and neocortical desynchronization. Brain Research Bulletin, 1976, 1, 573-581.
30. **Bland, B. H.**, & Wishaw, I. Q. Generators of topography of hippocampal theta (RSA) in the anaesthetized and freely moving rat. Brain Research, 1976, 118, 259-280.
31. Sainsbury, R. S., **Bland, B. H.**, & Buchan, D. H. Electrically induced seizure activity in the hippocampus: Time course for post-seizure inhibition of subsequent kindled seizures. Behavioral Biology, 1978, 22, 479-488.
32. Wishaw, I. Q., **Bland, B. H.**, & Bayer, S. A. Postnatal hippocampal granule cell agenesis in the rat: Effects on two types of rhythmical slow activity (RSA) in two hippocampal generators. Brain Research, 1978, 146, 249-268.
33. **Bland, B. H.**, Sainsbury, R. S., & Creery, B. L. Anatomical correlates of rhythmical slow wave activity (theta) in the hippocampal formation of the cat. Brain Research, 1979, 161, 199-209.
34. Andersen, P., **Bland, B. H.**, Myhrer, T., & Schwartzkroin, P. A. Septal hippocampal pathway necessary for dentate theta production. Brain Research, 1979, 165, 13-22.
35. Leblanc, O. M., & **Bland, B. H.** Developmental aspects of hippocampal electrical activity and motor behavior in the rat. Experimental Neurology, 1979, 66, 220-237.
36. **Bland, B. H.**, Sinclair, B. R., Jorgenson, R. G., & Keen, R. A direct-drive, non-rotating version of Ranck's microdrive. Physiology and Behavior, 1980, 24, 395-397.
37. Creery, B. L., & **Bland, B. H.** The ontogeny of fascia dentata electrical activity and motor behavior in the Dutch Belted rabbit (*Oryctolagus cuniculus*). Experimental Neurology, 1980, 67, 554-572.
38. **Bland, B. H.**, Andersen, P., Ganes, T., & Sveen, O. Automated analysis of rhythmicity of physiologically identified hippocampal formation neurons. Experimental Brain Research, 1980, 38, 205-219.
39. Sainsbury, R. S., & **Bland, B. H.** The effects of selective septal lesions on theta production in CA1 and the dentate gyrus of the hippocampus. Physiology and Behavior, 1981, 26, 1097-1101.
40. **Bland, B. H.**, Sainsbury, R. S., Seto, M., Sinclair, B. R., & Wishaw, I. Q. The use of sodium pentobarbital for the study of immobility-related (Type 2) hippocampal theta. Physiology and Behavior, 1981, 27, 363-368.

41. Sinclair, B. R., Seto, M. G., & **Bland, B. H.** Theta cells in the CA1 and dentate layers of the hippocampal formation: Relations to slow wave activity and motor behavior in the freely moving rabbit. Journal of Neurophysiology, 1982, 48, 1214-1225.
42. **Bland, B. H.**, Seto, M., & Rowntree, C. I. The relation of multiple hippocampal theta cell discharge rates to slow wave theta frequency. Physiology and Behavior, 1983, 31, 111-117.
43. **Bland, B. H.**, Seto, M. G., Sinclair, B. R., & Fraser, S. M. The pharmacology of hippocampal theta cells: Evidence that the sensory processing correlate is cholinergic. Brain Research, 1984, 299, 121-131.
44. Roth, S. H., **Bland, B. H.**, & MacIver, M. B. Biphasic actions of pentobarbital on synaptic transmission. Progress in Neuropsychopharmacology and Biological Psychiatry, 1983, 7, 821-825.
45. Rowntree, C. I., & **Bland, B. H.** An analysis of cholinceptive neurons in the hippocampal formation by direct microinfusion. Brain Research, 1986, 362, 98-113.
46. MacIver, M. B., Harris, D. P., Konopacki, J., Roth S. H., & **Bland, B. H.** Carbachol-induced rhythmical slow wave activity recorded from dentate granule neurons in vitro. Proceedings of the Western Pharmacological Society, 1986, 29, 159-161.
47. Bland, S. K., & **Bland, B. H.** Medial septal modulation of hippocampal theta cell discharges. Brain Research, 1986, 375, 102-116.
48. Roth, S. H., Konopacki, J., and **Bland, B. H.** Pharmacological demonstration of two EEG "theta" generators in hippocampal slices. Proceedings of the Western Pharmacological Society, 1987, 30, 37-40.
49. Colom, L. V., Ford, R. D., & **Bland, B. H.** Hippocampal formation neurons code the level of activation of the cholinergic septo-hippocampal pathway. Brain Research, 1987, 410, 12-20.
50. Konopacki, J., MacIver, M. B., **Bland, B. H.**, & Roth, S. H. Theta in hippocampal slices: Relation to synaptic responses of dentate neurons. Brain Research Bulletin, 1987, 18, 25-27.
51. Konopacki, J., MacIver, M. B., Roth, S. H., & **Bland, B. H.** Carbachol-induced EEG "Theta" activity in hippocampal brain slices. Brain Research, 1987, 405, 196-198.
52. Konopacki, J., **Bland, B. H.**, & Roth, S. H. Phase Shifting of CA1 and dentate EEG "theta" in hippocampal formation slices, Brain Research, 1987, 417, 399-402.
53. Konopacki, J., **Bland, B. H.**, MacIver, M. B., & Roth, S. H. Cholinergic theta rhythm in transected hippocampal slices: Independent CA1 and dentate generators. Brain Research, 1987, 436, 217-222.

54. Colom, L. V., & **Bland, B. H.** State-dependent spike train dynamics of hippocampal formation neurons: Evidence for theta-on and theta-off cells. Brain Research, 1987, 422, 277-286.
55. Konopacki, J., **Bland, B. H.**, & Roth, S. H. Carbachol-induced EEG theta in hippocampal formation slices: Evidence for a third generator of theta in CA3C area. Brain Research, 1988, 451, 33-42.
56. **Bland, B. H.**, & Colom, L. V. Responses of phasic and tonic hippocampal theta-on cells to cholinergics: Differential effects of muscarinic and nicotinic activation. Brain Research, 1988, 440, 167-171.
57. Konopacki, J., **Bland, B. H.**, & Roth, S. H. Evidence that activation of *InVitro* hippocampal theta rhythm involves only muscarinic receptors. Brain Research, 1988, 455, 110-114.
58. **Bland, B. H.**, Colom, L. V., Konopacki, J., & Roth S. H. Intracellular records of carbachol-induced theta rhythm in hippocampal slices. Brain Research, 1988, 447, 364-368.
59. Konopacki, J., **Bland, B. H.**, & Roth, S. H. The development of carbachol-induced EEG theta examined in hippocampal formation slices. Developmental Brain Research, 1988, 38, 229-232.
60. Colom, L. V., Christie, B. R., & **Bland, B. H.** Cingulate cell discharge patterns related to hippocampal EEG and their modulation by muscarinic and nicotinic agents. Brain Research, 1988, 460, 329-338.
61. Code, W. E., Roth, S. H., **Bland, B. H.**, & Strunin, L. The effects of halothane on hippocampal theta rhythm in the freely moving rat. Canadian Journal of Anaesthesia, 1988, 35, 5100-5101.
62. Ford, R. D., Colom, L. V., & **Bland, B. H.** The classification of medial septum-diagonal band cells as theta-on or theta-off in relation to hippocampal EEG states. Brain Research, 1989, 493, 269-282.
63. **Bland, B. H.**, & Colom, L. V. Preliminary observations on the physiology and pharmacology of hippocampal theta-off cells, Brain Research, 1989, 505, 333-336.
64. **Bland, B. H.**, Colom, L. V., & Ford, R. D. Responses of septal theta-on and theta-off cells to activation of the dorsomedial-posterior hypothalamic region, Brain Research Bulletin, 1990, 24, 71-79.
65. **Bland, B. H.**, Colom, L. V., & Mani, T. E. An improved version of a direct-drive, non-rotating manual microdrive. Brain Research Bulletin, 1990, 25, 441-443.
66. Colom, L. V., & **Bland, B. H.** Medial septal cell interactions in relation to hippocampal field activity and the effects of atropine. Hippocampus, 1991, 1, 15-30.

67. Smythe, J. W., Christie, B. R., Colom, L. V., Lawson, V. H., & **Bland, B. H.** Hippocampal theta field activity and Theta-on/Theta-off cell discharges are controlled by an ascending hypothalamo-septal pathway. J. Neuroscience, 1991, 11, 2241-2248.
68. Colom, L. V., Nassif-Caudarella, S., Dickson, C. T., Smythe, J. W., & **Bland, B. H.** In vivo intrahippocampal microinfusion of carbachol and bicuculline induces theta-like oscillations in the septally deafferented hippocampus. Hippocampus, 1991, 4, 381-390.
69. Konopacki, J., **Bland, B. H.**, Colom, L. V., & Oddie, S. D. In vivo intracellular correlates of hippocampal formation theta-on and theta-off cells. Brain Research, 1992, 586, 247-255.
70. Lawson, V. H., & **Bland, B. H.** The role of the septohippocampal pathway in the regulation of hippocampal field activity and behavior. Analysis by the intraseptal microinfusion of carbachol, atropine, and procaine. Experimental Neurology, 1993, 120, 132-144.
71. Edgington, E. S., & **Bland, B. H.** Randomization tests: Application to single-cell and other single-unit neuroscience experiments. Journal of Neuroscience Methods, 1993, 47, 169-177.
72. Vertes, R. P., Colom, L. V., Fortin, W. J., & **Bland, B. H.** Brainstem sites for the carbachol elicitation of the hippocampal theta rhythm in the rat. Experimental Brain Research, 1993, 96, 419-429.
73. Dickson, C. T., Trepel, C., & **Bland, B. H.** The extrinsic modulation of theta field activity in the entorhinal cortex of the anesthetized rat. Hippocampus, 1994, 4, 37-52.
74. Oddie, S. D., **Bland, B. H.**, Colom, L. V. & Vertes, R. P. The midline posterior hypothalamic region comprises a critical part of the ascending brainstem hippocampal synchronizing pathway. Hippocampus, 1994, 4, 454-473.
75. **Bland, B. H.**, Oddie, S. D., Colom, L. V. & Vertes, R. P. The extrinsic modulation of medial septal cell discharges by the ascending brainstem hippocampal synchronizing pathway. Hippocampus, 1994, 4, 649-660.
76. Vertes, R. P., Crane, A. M., Colom, L. V. & **Bland, B. H.** Ascending projections of the posterior nucleus of the hypothalamus in the rat: PHA-L analysis in the rat. Journal of Comparative Neurology, 1995, 359, 90-116.
77. **Bland, B. H.**, Konopacki, J., Kirk, I. J., Oddie, S. D. & Dickson, C. T. Discharge patterns of hippocampal theta-related cells in the caudal diencephalon of the urethane-anesthetized rat. Journal of Neurophysiology, 1995, 74, 322-333.
78. Dickson, C. T., Kirk, I. J., Oddie, S. D. & **Bland, B. H.** The classification of theta-related cells in the entorhinal cortex: Cell discharges are controlled by the ascending brainstem synchronizing pathway in parallel with hippocampal theta-related cells Hippocampus, 1995, 5, 306-319.

79. MacIver, M. B., Mandema, J. W., Stanski, D. R. & **Bland, B. H.** Thiopental uncouples hippocampal and cortical synchronized EEG activity. Anesthesiology, 1996, 84, 1411-1424.
80. **Bland, B.H.**, Trepel, C., Oddie, S. D. & Kirk, I. J. Intraseptal microinfusion of muscimol: Effects on hippocampal formation theta field activity and phasic theta-ON cell discharges. Experimental Neurology, 1996, 138, 286-297.
81. Oddie, S. D., Stefanek, W., Kirk, I. J. & **Bland, B. H.** Intraseptal procaine abolishes hypothalamic stimulation induced wheel running and hippocampal theta field activity in rats. Journal of Neuroscience, 1996, 16, 1948-1956.
82. Kirk, I.J., Konopacki, J., Oddie, S.D. & **Bland, B. H.** Evidence for differential control of posterior hypothalamic, supramammillary, and medial mammillary theta-related cellular discharge by ascending and descending pathways.. Journal of Neuroscience, 1996, 16, 5547-5554.
83. Oddie, S. D., Kirk, I. J., Wishaw, I. Q. & **Bland, B. H.** The hippocampal formation is involved in movement selection: Evidence from medial septal cholinergic modulation and concurrent slow-wave (theta rhythm) recording. Behavioral Brain Research, 1997, 88, 169-180.
84. Hanada, Y., Hallworth, N.E. Szgatti, T.L. & **Bland, B.H.** The distribution and analysis of hippocampal theta-related cells in the pontine region of the urethane-anesthetized rat. Hippocampus, 1999, 9, 288-302.
85. **Bland, B.H.**, Oddie. S.D. & Colom, L.V. Mechanisms of neural synchrony in the septohippocampal pathway underlying hippocampal theta generation. Journal of Neuroscience, 1999, 19, 3223-3237.
86. Natsume, K. Hallworth, N.E. Szgatti, T.L. & **Bland, B.H.** Theta-related cells in the superior colliculus of the urethane-anesthetized rat. Neuroscience Res., 1998, 22, 462, Suppl. S222.
87. Natsumi, K., Hallworth, N.E. Szgatti, T.L., & **Bland, B.H.** Hippocampal theta-related cellular activity in the superior colliculus of the urethane-anesthetized rat, 1999, Hippocampus, 1999, 5, 500-509.
88. Oddie, S.D., Kirk, I.J., Gorny, B.P., Wishaw, I.Q. & **Bland, B.H.** Impaired dodging in food-conflict following fimbria-fornix transection in rats: A novel hippocampal formation deficit, Brain Research Bulletin, 2002, Vol. 57, 565-573.
89. **Bland, B.H.**, Konopacki, J., & Dyck, R. Relationship between membrane potential oscillations and rhythmic discharges in identified hippocampal theta-related cells. Journal of Neurophysiology, 2002, Vol. 88, 3046-3066.

90. **Bland, B.H.**, Bland, C.E., Colom, L.V., Roth, S.H. DeClerk, S., Dypvik, A. Bird, J, and Deliyannides, A. Effect of halothane on type 2 immobility-related theta field activity and theta-ON/theta-OFF cell discharges. Hippocampus, 2003, Vol. 13, 38-47.
91. Scarlett, D.A., Dypvik, A.T. & **Bland, B.H.** A comparison of spontaneous and septally-driven hippocampal theta field and theta-related cellular activity. Hippocampus, Published On-line, October 14, 2003, printed 2004, Vol. 14, 99-106.
92. Konopacki, J., **Bland, B.H.**, and Dyck, R. Intracellular recording and labeling of neurons in midline structures of the rat brain *in vivo* using sharp electrodes. Journal of Neuroscience Methods, 2003, Vol. 127(1), 85-93.
93. Hallworth, N.E. and **Bland, B.H.** Basal ganglia-hippocampal interactions support the role of the hippocampal formation in sensorimotor integration. . Experimental Neurology, Electronic Publication, May 28, 2004, printed 2004, Vol.188, 430-443.
94. Dypvik, A.T. and **Bland, B.H.** Functional connectivity between the red nucleus and the hippocampus supports the role of the hippocampal formation in sensorimotor integration. Journal of Neurophysiology, Electronic Publication, June 6, 2004, printed 2004, Vol. 92, 2040-2050.
95. **Bland, B.H.**, Konopacki, J, and Dyck, R. Heterogeneity among hippocampal pyramidal neurons revealed by their relation to theta-band oscillation and synchrony. Journal of Experimental Neurology, Electronic Publication, July 13, 2005, printed 2005, Vol. 195,458-474.
96. Jackson, J., and **Bland, B.H.** Medial septal modulation of the ascending brainstem hippocampal synchronizing pathways in the acute rat. Hippocampus, Electronic Publication, November 2005, printed 2006, Vol. 16, 1-10,
97. **Bland, B.H.**, Bird, J., Jackson, J., and Natsume, K. Medial septal modulation of the ascending brainstem hippocampal synchronizing pathways in the freely moving rat. Hippocampus, Electronic Publication, November 2005, printed 2006, Vol. 16, 11-19.
98. **Bland, B.H.**, Jackson, J., Derie-Gillespie, D, and Azad, T., Rickhi, A., and Abriam, J. Amplitude, frequency, and phase analysis of hippocampal theta during sensorimotor processing in a jump avoidance task. Hippocampus, Electronic Publication, July 2006, printed 2006, Vol. 16, 673-681.
99. **Bland, B.H.** DeClerck, S., Jackson, J., Glasgow, S., and Oddie, S.D. Septohippocampal properties of N-Methyl-D-Aspartate-induced theta-band oscillation and synchrony. Synapse, Electronic Publication, December, 2006, printed 2007, Vol. 61, 185-197.
100. **Bland, B.H.**, Mestek, P., Jackson, J., Crooks, R and Cormican, A. To move or not: previous experience in a runway avoidance task determines the appearance of hippocampal Type 2 sensory processing theta. Behavioral Brain Research, Electronic Publication, February 7, 2007, printed 2007, Vol 179, 299-304.
101. Jackson, J., Dickson, C.T., and **Bland B.H.** Median raphe stimulation disrupts

hippocampal theta oscillation via rapid inhibition and state dependent phase reset of theta related neural circuitry. Journal of Neurophysiology (April 24, 2008). doi: 10.1152/jn.00065.2008, Vol 99, 3009-3026.

102. Jackson, J., Young, C., Hu, B. and **Bland B.H.** High frequency stimulation of the posterior hypothalamic nucleus restores movement and reinstates striatal-hippocampal theta coherence following haloperidol-induced catalepsy. Experimental Neurology, 10.1016/j.expneurol.2008.06.007, Vol 213, 210-219.
103. Jesse Jackson, **Brian H. Bland** and Michael C. Antle and. Non-serotonergic projection neurons in the midbrain raphe nuclei contain the vesicular glutamate transporter VGLUT3. Synapse, 2009, Vol 63, 31-41.
104. Crooks, R., Jackson, J. and **Bland, B.H.** Evidence that the hippocampal desynchronizing effects of electrical stimulation of the median raphe are mediated by the medial septum. In prep.

ABSTRACTS:

1. **Bland, B. H.**, & Vanderwolf, C. H. Effects of hypothalamic stimulation on behavior and hippocampal EEG. Eastern Psychological Association 41st Annual Meeting, Atlantic City, 1970.
2. **Bland, B. H.**, & Vanderwolf, C. H. Effects of dentate gyrus stimulation on behavior and hippocampal electrical activity. Proceedings of the Canadian Federation of Biological Societies, 1970, 13, 566.
3. Wishart, T. B., & **Bland, B. H.** Seizure induced rebound feeding. Proceedings of the Canadian Federation of Biological Societies, 1970, 13, 172.
4. **Bland, B. H.** Hippocampal EEG and behavior. Electroencephalography and Clinical Neurophysiology, 1972, 33, 236.
5. Andersen, P., **Bland, B. H.**, Skrede, K. K., Sveen, O., & Westgaard, R. Single unit discharges in brain slices maintained In Vitro. Acta Physiologica Scandinavica, 1972, 84, 1a-2a.
6. Andersen, P., **Bland, B. H.**, & Dudar, J. D. Lamellar hippocampal input to the septal nuclei. Acta Physiologica Scandinavica, 1973, 9a-10a.
7. **Bland, B. H.**, & Wishaw, I. Q. Generators and topography of theta (RSA) in the acute and freely moving rat. Proceedings of the Canadian Federation of Biological Societies, 1976, 19, 1.
8. Wishaw, I. Q., & **Bland, B. H.** Origin and pharmacology of two types of RSA (theta) in two hippocampal generators. Proceedings of the Canadian Federation of Biological Societies, 1976, 19, 2.

9. **Bland, B. H.**, Sainsbury, R. S., & Buchan, D. H. Development of stable electrically induced seizures and the time course of post-seizure inhibition. Physiology Canada, 1977, 8, 30.
10. Whishaw, I. Q., **Bland, B. H.**, & Bayer, S. A. The topography of hippocampal RSA (theta) in acute and freely moving rats subjected to neonatal X-irradiation. Talk presented to Eastern Psychological Association, Boston, 1977.
11. **Bland, B. H.**, Andersen, P., Ganes, T., & Sveen, O. Automated analysis of rhythmicity of physiologically identified hippocampal formation neurons. Proceedings of the Canadian Federation of Biological Societies, 1978, 21, 545.
12. LeBlanc, O., Creery, B., & **Bland, B. H.** The ontogeny of hippocampal electroencephalographic-behavioral relations. Talk presented to the Canadian Psychological Association, Ottawa, 1978.
13. **Bland, B. H.**, Seto, M., & Sinclair, B. R. Selective abolishment of Type 2 unit rhythmicity in the hippocampal formation of the freely moving rabbit: Evidence for an ascending cholinergic input. Proceedings of the Canadian Federation of Biological Societies, 1981 24, 45.
14. **Bland, B. H.**, Seto, M., & Rowntree, C. Spike train analysis of single and coupled hippocampal theta cells in relation to the frequency of hippocampal theta waves. Proceedings of the Canadian Federation of Biological Societies, 1982, 25, 25.
15. MacIver, M. B., **Bland, B. H.**, & Roth, S. H. Selective actions of pentobarbital on hippocampal granule and pyramidal neurons studied In Vitro. Society for Neuroscience Abstracts, 1982, 8, 372.
16. **Bland, B. H.**, Bland, S. K., & Rowntree, C. I. An assessment of medial septal input to hippocampal theta cells: Effects on firing patterns and behavioral correlates. Proceedings of the Canadian Federation of Biological Societies, 1984, 27, PA 157.
17. **Bland, B. H.**, & Rowntree, C. I. An analysis of hippocampal formation theta by direct microinfusion of cholinergic agonists and antagonists. Proceedings of the Canadian Federation of Biological Societies, 1985, 28, PA108.
18. **Bland, B. H.**, Colom, L. V., & Ford, R. D. Responses of hippocampal formation theta cells to hypothalamic activation of the cholinergic septo-hippocampal pathway. Proceedings of the Canadian Federation of Biological Societies, 1986, 29, PA127.
19. Colom, L. V., & **Bland, B. H.** Two types of neurons related to hippocampal EEG states: International Symposium of Neurosciences, Cellular Basis of Neural Integration, Montevideo-Solis, Uruguay, 1986.

20. Colom, L. V., and **Bland, B. H.** Theta-off cells: Evidence for a new class of hippocampal formation neurons: Proceedings of the Canadian Federation of Biological Societies, 1987, 30, PA161.
21. Roth, S. H., Konopacki, J., and **Bland, B. H.** The selective effects of sodium pentobarbital and urethane on cholinergically induced EEG "theta" activity in hippocampal brain slice preparations. Proceedings of the Canadian Federation of Biological Societies, 1987, 30, PA109.
22. Code, W. E., **Bland, B. H.**, and Roth, S. H. Halothane induces type 2 theta EEG rhythm in the rat hippocampal formation In Vivo. Alberta Heritage Foundation for Medical Research, Heritage Days, Calgary, 1987.
23. Colom, L. V., and **Bland, B. H.** Relations between cingulate cortical cell discharge patterns and hippocampal formation slow wave activity. Society for Neuroscience Abstracts, 1987, 13, 882.
24. Colom, L. V., Code, W. E., **Bland, B. H.**, and Roth, S. H. Use of halothane to study hippocampal mechanisms of theta generation. Proceedings of the Canadian Federation of Biological Societies, 1988, 31, 118.
25. **Bland, B. H.**, and Ford, R. D. Theta-on theta-off Cells in the medial septum and vertical limb of the diagonal band. Proceedings of the Canadian Federation of Biological Societies, 1988, 31, 120.
26. Colom, L. V., and **Bland, B. H.** Functional connectivity between pairs of medial septal neurons. Society for Neuroscience Abstracts, 1988, 14, 127.
27. **Bland, B. H.**, Ford, R. D., and Colom, L. V. Responses of medial septal/diagonal band cells to electrical stimulation of the dorsomedial-posterior hypothalamic nuclei. Society for Neuroscience Abstracts, 1988, 14, 859.
28. **Bland, B. H.**, Eggermont, J. J., Smith, G. M., and Colom, L. V. Contribution of medial septal neurons to periodic hippocampal field activity. Society for Neuroscience Abstracts, 1989, 15, 1250.
29. Colom, L. V., Roquet, S., and **Bland, B. H.** Behavioral correlates and cholinergic manipulations of hippocampal phasic linear theta-on cells. Society for Neuroscience Abstracts, 1989, 15, 1251.
30. Christie, B. R., and **Bland, B. H.** An investigation of a diencephalic-septal-hippocampal pathway. International Journal of Neuroscience, 1990, 51(1-2), 117.
31. Smythe, J. W., Lawson, V. H., Christie, B. R., and **Bland, B. H.** Responses of phasic and tonic theta-on hippocampal cells to intraseptal infusions of procaine in the urethane-anesthetized rat. Canadian Psychology, 1990, 31, 2, 360.

32. **Bland, B. H.**, Colom, L. V., and Roth, S. H. The effects of halothane anaesthesia on hippocampal theta cell discharges. The New York Academy of Sciences, Molecular and Cellular Mechanisms of Alcohol and Anaesthetics, Calgary, 1990.
33. Colom, L. V., Nassif-Caudarella, S., and **Bland, B. H.** Oscillatory properties of the hippocampal formation following reversible blockade of the medial septum. Society for Neuroscience Abstracts, 1990, 16, 1097.
34. Smythe, J. W., Lawson, V. H., and **Bland, B. H.** The effects of intraseptal infusions of procaine on hippocampal theta-on and theta-off cells in the urethane-anesthetized rat. Society for Neuroscience Abstracts, 1990, 16, 1097.
35. Lawson, V. H., & **Bland, B. H.** The effects of reversible suppression of the medial septum of freely moving rats on hippocampal EEG and behavior. Canadian Society for Brain, Behavior and Cognitive Science, 1991, 1, 22.
36. Lawson, V. H., & **Bland, B. H.** Atropine-resistant and atropine-sensitive hippocampal theta in the freely moving rat depends on septal afferents. Society for Neuroscience Abstracts, 1991, 17, 1036.
37. Dickson, C. T., & **Bland, B. H.** Spontaneous and evoked theta field and theta-related cell activity of the entorhinal cortex in the urethane-anesthetized rat. Society for Neuroscience Abstracts, 1991, 17, 1035.
38. Oddie, S. D., Colom, L. V., & **Bland, B. H.** Effects of a reversible blockade of the dorsomedial-posterior hypothalamus on hippocampal field activity. Society for Neuroscience Abstracts, 1991, 17, 1036.
39. **Bland, B. H.**, Colom, L. V., & Oddie, S. D. Dorsomedial-posterior hypothalamic influences on the septo-hippocampal pathway in the generation of hippocampal theta. Society for Neuroscience Abstracts, 1991, 17, 1036.
40. Colom, L. V., & **Bland, B. H.** Pontine and dorsomedial-posterior hypothalamic influences on theta-related cells in the medial septum. Society for Neuroscience Abstracts, 1991, 17, 1036.
41. Dickson, C. T., & **Bland, B. H.** Effects of hypothalamic stimulation on theta field and theta-related cellular activity of the entorhinal cortex. Canadian Society for Brain, Behavior and Cognitive Science, 1992, 2, 27-28.
42. Madison, D. V., **Bland, B. H.**, MacIver, M. B., & MacVicar, B. A. Hippocampal theta activity: synaptic, cellular, circuit and behavioral correlates. The 25th Annual Winter Conferences on Brain Research, 1992, Steamboat Springs, CO.
43. Oddie, S. D., Colom, L. V., & **Bland, B. H.** The posterior hypothalamus and hippocampal synchrony. Society for Neuroscience Abstracts, 1993, 19, 356.

44. **Bland, B. H.**, Oddie, S. D., Dickson, C. T., & Trepel, C. Discharge patterns of posterior-supramammillary hypothalamic cells in relation to hippocampal theta field activity. Society for Neuroscience Abstracts, 1993 19, 355.
45. Dickson, C. T., Trepel, C., & **Bland, B. H.** Extrinsic mechanisms in the production of coherent, yet independent, limbic theta oscillations. Society for Neuroscience Abstracts, 1993, 19, 356.
46. MacIver, M. B., Mandema, J., Stanski, D. R., & **Bland, B. H.** Thiopental desynchronizes cortical and hippocampal CA1 electrical activity. Society for Neuroscience Abstracts, 1993 19, 275.
47. Vertes, R. P., Crane, A. M., Colom, L. V., & **Bland, B. H.** PHA-L analysis of ascending projections from the posterior hypothalamus in the rat. Society for Neuroscience Abstracts, 1993, 19, 1442.
48. Kirk, I. J., Konopacki, J., & **Bland, B. H.** Differential effects of septal procaine infusion on theta-related discharge patterns of posterior-hypothalamic, supramammillary and medial mammillary neurons. Society for Neuroscience Abstracts, 1994, 20, 346.
49. Oddie, S. D., Stefanek, W., **Bland, B. H.** & Kirk, I. J. Hippocampal synchronizing pathway influences on theta and wheel-running behavior in rats. Society for Neuroscience Abstracts, 1994, 20, 346.
50. Dickson, C. T., Kirk, I. J., & **Bland, B. H.** Phase relationships of entorhinal theta-related units to the hippocampal theta rhythm: A comparison of three different methods. Society for Neuroscience Abstracts, 1994, 20, 347.
51. Oddie, S. D., Kirk, I. J., Konopacki, J. & **Bland, B. H.** Phasic theta-on cells in the medial mammillary nucleus are sculptured by inhibitory input during hippocampal theta field activity in urethane-anesthetized rats. Society for Neuroscience Abstracts, 1995, 21, 1206.
52. **Bland, B. H.**, Trepel, C., Oddie, S. D. & Kirk, I. J. Intraseptal microinfusion of muscimol: Effects on hippocampal formation field activity and phasic theta-on cell discharges. Society for Neuroscience Abstracts, 1995, 21, 1206.
53. Materi, L. M., Kirk, I. J., Oddie, S. D., Sainsbury, R. S. & **Bland, B. H.** The influence of the thalamic nucleus reuniens on hippocampal theta and sharp-wave field activity in urethane-anesthetized rats. Society for Neuroscience Abstracts, 1995, 21, 1205.
54. Kirk, I. J., Oddie, S. D., McNaughton, N. & **Bland, B. H.** Spontaneously occurring, reticularly-elicited and septally-driven hippocampal theta rhythm: A comparison of depth and current-source density profiles. Society for Neuroscience Abstracts, 1995, 21, 1206.

55. **Bland, B.H.**, Colom, L.V., Oddie, S.D., Kirk, I.J., & Scarlett, D. Mechanisms of hippocampal theta generation: Evidence from simultaneous recordings of medial septal and hippocampal cells. Society for Neuroscience Abstracts, 1997, 23, 486.
56. Scarlett, D. & **Bland, B.H.** Evidence that medial septum controls the reset of hippocampal theta frequency. Society for Neuroscience Abstracts, 1997, 23, 486.
57. Oddie, S.D., I.J. Kirk, Gorney. B., Whishaw, I.Q. & **Bland, B.H.** Hippocampal formation theta field activity and movement selection. Society for Neuroscience Abstracts, 1997, 23,486.
58. Hallworth, N.E. & **Bland, B. H.** Theta-related cells of the nigro-striatal loop. Society for Neuroscience Abstracts, 1999, Vol. 25, 657.
59. DeClerck, S., **Bland, B.H.**, Oddie, S.D. Glutamatergic cells in septum modulate hippocampal theta amplitude and movement in rats. Society for Neuroscience Abstracts, 2002, Vol. 28, 577.
60. Jackson JC, Cormican AM, **Bland BH.** Median raphe stimulation inhibits hippocampal theta-ON cells and posterior hypothalamic induced running behaviour. Society for Neuroscience Abstracts, 2006.
61. Young, Calvin K., Jackson, Jesse, **Bland, Brian H.**, and Bin Hu. Posterior hypothalamic stimulation ameliorates haloperidol induced bradykinesia in an active avoidance task. Canadian Association for Neuroscience Annual Meeting, Toronto, Ontario. 2007
62. Jackson, Jesse and **Bland, Brian H.** Median raphe stimulation resets hippocampal theta activity and related cellular activity. Canadian Association for Neuroscience Annual Meeting, Toronto, Ontario. 2007.
63. Calvin K. Young and **Brian H. Bland.** Unit activities in the medial prefrontal cortex and the hippocampus during theta and slow oscillations under urethane anesthesia. Society for Neuroscience Abstracts, 2007.
64. Robert Crooks, Jesse Jackson, **Brian H Bland.** Median raphe hippocampal desynchronization is mediated primarily via the medial septum in the urethane anesthetized rat. Society for Neuroscience Abstracts, 2007.
65. Jesse Jackson, Calvin Young, Bin Hu, **Brian H Bland.** Posterior hypothalamic stimulation ameliorates akinesia and restores striatal-hippocampal theta coherence in Parkinsonian rats. Society for Neuroscience Abstracts, 2007.
66. Jesse Jackson, Mike Antle, **Brian H Bland.** Glutamatergic projections from dorsal and median raphe to medial septum and hippocampus. Canadian Association for Neuroscience Annual Meeting, Montreal, Quebec. 2008.
67. Calvin Young, Jesse Jackson, **Brian H. Bland.** Hippocampal-striatal oscillations under various pharmacological agents: interactions revealed by Granger causality analysis. Canadian Association for Neuroscience Annual Meeting, Montreal, Quebec. 2008.

68. Calvin Young, Jesse Jackson and **Brian H. Bland**. Hippocampal-striatal theta interactions revealed by pharmacological manipulation and electrical stimulation. Society for Neuroscience Abstracts, 2008.
69. Sydney Koke, Calvin Young, Mike Antle, Bin Hu, Zelma Kiss, and **Brian H. Bland**. Electrical stimulation of the posterior hypothalamic nucleus in a rodent model of Parkinson's disease. Society for Neuroscience Abstracts, 2008.