

## CURRICULUM VITAE

J. Wayne Aldridge, PhD  
Professor of Psychology, University of Michigan  
Professor of Neurosurgery, University of Michigan Medical School

### EDUCATION:

09/1963-06/1967 Cayuga Technical and Commercial High School, Cayuga, Ontario  
09/1967-06/1968 Caledonia High School, Caledonia, Ontario  
09/1968-05/1973 University of Toronto, Canada; B.Sc. (Honours in Psychology)  
09/1973-06/1975 University of Toronto, Canada; M.Sc. (Zoology)  
09/1975-08/1979 University of Toronto, Canada; Ph.D. (Physiology)  
MSc Thesis: The Effect of a  $\Delta 1$ -Tetrahydrocannabinol Derivative on Synaptic Transmission at the Neuromuscular Junction of the Crayfish.  
Supervisors: Dr. BH Pomeranz and Dr. HL Atwood.  
PhD Thesis: The Role of the Basal Ganglia in the Control of Movement.  
Supervisor: Dr. JT Murphy.

### POSTDOCTORAL TRAINING:

09/1979-01/1982 Dr. RB Stein, Physiology, University of Alberta, Alberta, Canada. Research topic: The non-linear properties of reflexes and reflex properties during locomotion

### PREVIOUS ACADEMIC APPOINTMENTS:

2011- Professor  
Department of Psychology, University of Michigan  
Professor  
Department of Neurosurgery, University of Michigan  
2009-2011 Associate Professor  
Department of Psychology, University of Michigan  
Associate Professor  
Department of Neurosurgery, University of Michigan  
2003-2008 Research Associate Professor  
Department of Neurology, University of Michigan  
1997-2003 Senior Associate Scientist  
Department of Neurology, University of Michigan  
1996-1997 Associate Research Scientist  
Department of Neurology, University of Michigan  
1982-1996 Assistant Research Scientist  
Department of Neurology, University of Michigan

## **HONORS AND AWARDS:**

1974-75	Ontario Graduate Scholar
1978-79	Ontario Graduate Scholar
1973, 1974	Research on Drug Abuse Scholar, Health and Welfare, Canada
1975-1978	National Research Council of Canada Scholar
1979-1981	Postdoctoral Fellow: Muscular Dystrophy Association, Canada
1981-1982	Postdoctoral Fellow: Alberta Heritage Foundation for Medical Research
2003	Faculty Outstanding Service Recognition Award: University of Michigan, Neuroscience Program
2009	2009 Elizabeth Crosby lecture. Neurosurgery, University of Michigan
2010	Fellow, Association of Psychological Science

## **SCIENTIFIC ACTIVITIES:**

Research Interests:	<ul style="list-style-type: none"><li>• Neural mechanisms of movement and reward.</li><li>• The neuronal basis of neurological disorders.</li><li>• Coding and computational properties of neuronal networks.</li><li>• Neural mechanisms of individual differences (collaboration with Drs. Terry Robinson, Martin Sarter, Brandon Aragona)</li><li>• Neural coding mechanisms of reward liking and wanting and how brain systems generate positive affective reactions to natural stimuli (collaboration with Dr. Kent Berridge)</li><li>• Neurophysiological recording during stereotaxic neurosurgery to implant in-dwelling stimulation electrodes in the subthalamic nucleus for neuromodulation in Parkinson's disease (collaboration with Dr. Parag Patil)</li></ul>
Research Techniques:	Single neuronal unit recording in behaving animals. Animal models of neurological disease: excitotoxic lesions. Multi-electrode recording. Computer-based behavioral testing and statistical analysis.
Journal Reviewer:	Annals of Neurology Behavioural Brain Research Brain Research Cognitive, Affective, & Behavioral Neuroscience Experimental Brain Research Experimental Neurology Future Neurology Journal of Neurological Sciences Journal of Neurophysiology Journal of Neuroscience Journal of Neuroscience Methods

Neuropsychopharmacology  
Neuroscience  
Neuroscience & Biobehavioral Reviews  
Neuroscience Letters  
PLoS ONE  
Proceedings of the National Academy of Science  
Science  
Synapse

Grant Reviewer: National Science Foundation  
NIH, National Institute of Neurological Disorders and Stroke  
NIH, National Institute on Drug Abuse  
The Israel Science Foundation  
Medical Research Council of Canada  
Michael Smith Foundation for Health Research  
NIH Cognitive Functional Neuroscience Review Committee  
Health Research Council of New Zealand  
Office of the Vice President for Research, University of Michigan  
Parkinson's Disease Foundation

GRANT SUPPORT:

Current

4/15/2012 - 3/31/2017 “Neural Encoding of the Incentive Value Attributed to Food and Drug Cues”. Subproject 3 of Program Project (PI: Terry Robinson) “Variation in Motivational Properties of Reward Cues: Implications for Addiction”  
NIDA  
Project Role: PI (of subproject)  
Direct costs \$1,180,627.00 / 5 years  
This study will utilize individual differences of sign- and goal-trackers to determine whether the nucleus accumbens and ventral pallidum process incentive vs. predictive properties of food cues, and to what extent the neurochemical dopamine is involved. Our overall hypothesis is that neurons will be more responsive to the incentive properties than to the predictive properties of reward cues.

- 7/1/2009 – 6/30/2014 “Cue-triggered reward seeking”  
 NIDA  
 Investigator, PI: Kent Berridge  
 Direct costs \$250,000 / year  
 The purpose is to identify how accumbens and amygdala substrates mediate cue-triggered ‘wanting’, relevant to cue-triggered relapse in addiction. The goal is to determine how incentive salience of a reward cue is magnified by accumbens mechanisms after neural sensitization by drugs of abuse (e.g., cocaine, morphine), and how it is focused on addictive targets by amygdala mechanisms to make drugs compulsively ‘wanted’.
- 9/1/2008-8/31/2012 Medial prefrontal cortex and hypothalamic-pituitary-adrenal axis roles, in generation of PTSD-like, symptoms, in SPS model  
 Co-investigator. (I. Liberzon, P.I.)  
 Award direct costs \$150,000 annual  
 The major goal of this project is to examine if SPS induced effects in fear extinction, social interaction and defensive behavior modulation (akin to PTSD intrusive, avoidant and emotional dysregulation symptoms), are mediated by SPS induced changes in mPFC/amygdala function and/or brain glucocorticoid receptor function.
- 03/01/05 – 02/28/10 “Neuronal coding of reward in ventral forebrain”  
 No- cost extension through 01/2012  
 NIDA  
 Principal Investigator  
 Direct costs \$250,000 / year  
 We investigate possible neural coding mechanisms for reward liking and wanting, which are important to drug addiction as well as motivation for natural rewards.
- 4/1/2008-3/31/2013 “Affective Neuroscience of Taste Reactivity”  
 National Institutes of Mental Health  
 Investigator, PI: Kent Berridge  
 Direct costs \$250,000 / year  
 The major goal is to further identify the hedonic hotspots in limbic brain substrates that are necessary or able to amplify the hedonic impact of sensory pleasure, using taste reactivity procedures and a Fos plume tool for microinjection mapping.

- 08/2005 – 07/2010 Neurobiological mediators of symptom development in animal model of PTSD  
Co-investigator. (I. Liberzon, P.I.)  
Total award direct costs (5 years) \$636,500  
The purposes is to investigate the mechanisms by which trauma may produce sensitization or kindling effects in particular brain regions, and the degree to which such effects are linked to PTSD symptom formation.
- 7/01/07 – 06/30/09 “Neural coding of motor sequences in the basal ganglia: effects of dopaminergic modulation”  
Tourette Syndrome Association  
Principal Investigator  
Direct costs \$70,000 / year  
We investigated the neuronal control mechanisms of stereotyped movement sequences in the basal ganglia and the effects of dopaminergic modulation with an overall aim of understanding the pathophysiology of Tourette Syndrome.
- 04/01/06 – 03/31/08 “Evaluating Striatal Function in a Murine HD Model”.  
NIH  
Consultant (R. Albin, P.I.)  
We tested the idea that testing grooming sequences and egocentric spatial memory will prove more efficient at identifying phenotypic abnormalities than conventional behavioral methods in murine genetic models of Huntington’s disease.
- 08/01/02 – 07/31/07 “Affective Neuroscience of Taste Reactivity”  
National Institutes of Mental Health  
Investigator, PI: Kent Berridge  
Direct costs \$250,000 / year  
This project probed brain systems that generate positive affective reactions to natural stimuli and to identified the substrates of these systems.
- 05/01/95 -06/30/02 “Coding of Behavioral Sequences in the Basal Ganglia”  
National Institutes of Health  
Principal Investigator  
Direct costs 2002 \$202,000 / year
- 06/01/97 – 05/31/98 “Age Related Changes in Motor Sequencing”  
Michigan Alzheimer’s Disease Research Center  
Principal Investigator  
Direct Costs: \$10,000

05/01/95 – 04/30/97 “Sensorimotor Mechanisms of Stereotyped Movement: Striatal Dysfunction in Tourette Syndrome”  
Tourette Syndrome Association  
Principal Investigator  
Direct Costs, \$44,348

11/01/93 – 10/31/96 “Thin-Film Intracortical Recording Multielectrodes”.  
National Institutes of Health  
Investigator  
Direct Costs: \$293,436 (11/01/93 – 10/31/94)  
Kensall Wise, PhD Program Director

05/25/88 – 05/24/95 “Receptors in the Brain: Molecular Biology and Regulation”  
Lucille P. Markey Charitable Trust  
Investigator  
Subproject: \$89,325  
Sid Gilman, MD; Bernard Agranoff, MD, Program Directors

12/1/90 – 11/30/94 “Amino Acid and Peptide Transmitters in the Motor System”  
National Institutes of Health  
Co-Principal Investigator, Project #1  
Subproject: \$132,317 (12/93-11/94)  
Sid Gilman, MD Program Director

07/01/90 – 06/30/92 “Striatal Injury: Physiological and Neurochemical Correlates”  
United Cerebral Palsy Research and Educational Foundation, Inc.  
Principal Investigator  
Award: \$50,000.

07/01/89 – 09/30/90 “Neuronal Mechanisms of Grooming in Rats”  
Biomedical Research Council and the Office of the Vice  
President for Research, University of Michigan  
Principal Investigator  
Award: \$15,000

12/1/84 – 11/30/89 “Neural Reorganization in Experimental Hemiplegia”  
National Institutes of Health  
Investigator, Project #1  
Sid Gilman, MD Program Director

7/1/86 – 9/30/88 “Motor Systems Responsible for Recovery of Movement”  
United Cerebral Palsy Research and Educational Foundation, Inc.  
Investigator  
Sid Gilman, MD Principal Investigator

7/1/86 – 6/30/88 “Perinatal Hypoxia-Ischemia: Neurotransmitter Correlates”  
United Cerebral Palsy Research and Educational Foundation, Inc.  
Investigator  
Michael Johnston, MD Principal Investigator

7/1/86 – 6/30/88

“Neuronal Activity in Animal Models of Huntington’s Disease”  
Hereditary Disease Foundation  
Principal Investigator  
Award: \$20,000

**MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES:**

The Society for Neuroscience  
International Basal Ganglia Society  
American Association for the Advancement of Science  
Society for Neuroscience Michigan Chapter

**TEACHING:**

University of Michigan  
Undergraduate Courses

Upper level undergraduate / graduate course Psychology 437 (433) /  
Psychology 731: “From Motivation to Action”  
Introduction to Biopsychology 230 (300 students) per class

Psychology 302: Brain-behavior mechanisms of action: a laboratory  
approach

Psychology 331, Laboratories in Biopsychology and Cognitive Science

Mentored undergraduates (137 students, average 6 per year): Independent  
studies and Undergraduate Opportunities Program

University of Toronto  
Undergraduate Courses (each 2 terms/year)

Dept. of Zoology. Lab instructor for courses in neurophysiology and  
behavior (2 years).

Dept. of Physiology, Laboratory courses in human physiology involving  
weekly lectures, demonstrations and evaluations. (3 years)

University of Michigan  
Graduate courses

Neuroscience 700 seminar (taught 3 years)

Neuroscience 602 3<sup>rd</sup> module, Neuronal mechanisms of motor and cognitive behavior. Required graduate course in Neuroscience Doctoral Degree Program (15 to 20 students per year) – taught 3 years

Psychology seminar course Co-Instructor, “Neural Systems of Action”

University of Michigan  
Graduate Students

Supervised PhD dissertation research for 6 students and 2 Masters students.  
3 Neuroscience; 1 Biopsychology; 1 Biomedical Engineering

Dissertation Committee for 32 students in Neuroscience, Biopsychology, Kinesiology, Biomedical Engineering, Anatomy and Cell Biology.

Bioengineering Graduate Program independent studies instructor

PhD Students Supervised

Lindsay Ferguson ( <i>Co-mentor</i> )	PhD awarded 2017. Department of Psychology, University of Texas, Austin. Dissertation: Neural representations of reward in the mesolimbic circuit of male rats
Christy Itoga	PhD awarded 2014. Neuroscience Program Research topic: Reward activity in nucleus accumbens and ventral pallidal ‘hotspots’ related to taste stimuli and the effects of dopaminergic and opiate activation. Postdoctoral Fellow in Department of Physiology, LSU Health New Orleans School of Medicine
Shani Ross	PhD awarded 2013. Department of Biomedical Engineering Research topic: Deep brain stimulation effects on behavior and the neural activity correlates in ventral pallidum. Current: Postdoctoral Fellow in Biomedical Engineering at University of Michigan
André Snellings	PhD awarded 2006. Department of Biomedical Engineering Thesis: Localization in Deep Brain Structures. Current position. Senior Applications Engineer, NeuroNexus, Ann Arbor, MI.

Amy Tindell	PhD awarded 2005. Department of Psychology (Biopsychology) Thesis: Coding Mechanisms of the Ventral Pallidum for Pavlovian Cues and Rewards. Currently: Associate McCarter & English Attorneys-at-Law (Intellectual Property and Information Technology Group)
Dieter Jaeger	PhD awarded 1990. Neuroscience Program. Thesis: Primate Basal Ganglia Single Unit Activity in a Precued Motor Task. Current position: Professor of Biology, Emory University
Robert NS Sachdev	PhD awarded 1990. Neuroscience Program. Thesis: Effect of Excitotoxic Striatal Lesions on the Discharge Pattern in Globus Pallidus and Entopeduncular Nucleus of the Cat. Current position: Head of Functional Imaging and Multimodal Behaviour Unit, Larkum Lab, Humboldt University, Berlin.

Doctoral Dissertation Committees

Matt Gaidica	PhD. 2019 (anticipated), Neuroscience, Supervisor: Daniel Leventhal
Christopher Fitzpatrick	PhD. 2019 (anticipated), Neuroscience, Supervisor: Jon Morrow
Shannon Cole	PhD. 2017, Biopsychology, Supervisor: Kent Berridge
Daniel Castro	PhD. 2016, Biopsychology, Supervisor: Kent Berridge
Emily Nuechterlein	PhD. 2015, Neuroscience, Supervisor: Jon Kar Zubieta
Lindsay Yager	PhD. 2014, Psychology, Supervisor: Terry Robinson
Alaina Case	PhD. 2014, Neuroscience, Supervisor: Joshua Berke
Seth Koehler	PhD. 2013, Biomedical Engineering, Supervisor, Susan Shore
Jocelyn Richard	PhD. 2012. Biopsychology, Supervisor: Kent Berridge.
Manuel E. Hernandez	PhD. 2012. Biomedical Engineering, Supervisors: James Ashton Miller and Neal Alexander.
Youngbin Kwak	PhD. 2011, Neuroscience, Supervisor: Rachael Siedler
Colin Stoetzner	PhD. 2011, Neuroscience Program. Supervisor: Joshua Berke
Chen-Chung Lee	PhD. 2010, Neuroscience Program, Supervisor: John Middlebrooks
Chao-Yi Ho	PhD. 2010, Biopsychology, Supervisor: Kent Berridge
Eric Jackson	PhD. 2009, Biopsychology, Supervisor: Kent Berridge
Tiffany Love	PhD. 2009, Neuroscience Program, Supervisor: Jon K. Zubieta

Timothy Marzullo	PhD. 2008, Neuroscience Program. Supervisor: Daryl Kipke
Cristian Voicu	PhD. 2008, University of Otago, Dunedin, New Zealand, Supervisor: Brian Hyland
Ashley S. Bangert	PhD. 2007, Department of Psychology, Supervisor: Rachael Siedler
Kyle Smith	PhD. 2007, Department of Psychology, Supervisor: Kent Berridge
Vicente Martinez	PhD. 2007, Department of Psychology, Supervisor: Martin Sarter
Jennifer Hobin	PhD. 2005, Department of Psychology. Neural Circuits for Context-Specific Expression of Pavlovian Fear Memory after Extinction, Supervisor: Steve Maren
Rio Vetter	PhD. 2004, Department of Biomedical Engineering, Thesis: Investigations of Information Transfer Capabilities of Chronically Implanted Neuroprosthetic Devices in Motor Cortex using Neural Discharges and Local Field Potential Oscillations, Supervisor: Daryl Kipke
Brian Schulz	PhD 2004, Department of Biomedical Engineering, Thesis: Compensatory Stepping Mechanisms, Supervisor: James Ashton-Miller
Sheila M. Reynolds	PhD 2002, Department of Psychology, Supervisor: Dr. Kent Berridge. Thesis: Appetitive and Defensive Motivation in the Accumbens Shell
Ki A. Goosens	PhD 2002, Department of Psychology, Supervisor: Dr. Steve Maren. Thesis: Conditional Plasticity in the Amygdala: Substrates, Molecular Mechanisms and the Relationship to Fear Behavior.
Cengiz Yakut	PhD 2002, Division of Kinesiology, Supervisor: Dr. Susan Brown, Thesis: Effect of Sequential versus Simultaneous Practice on Learning a Multicomponent Visual Motor Task.
Brian Mickey	PhD 2002, Department of Psychology, Supervisor: Dr. John Middlebrooks. Thesis: Neuronal activity in the auditory cortex of the cat in relation to the localization of sounds.
Heui-Ming Chai	PhD 1999, Division of Kinesiology, Supervisor: Dr. M. Gross. Thesis: Dynamic Balance During Maximum Reach Movements in Young and Elderly Adults
Rowena Johnston	PhD 1997, Department of Psychology, Supervisor: Dr. J.B. Becker. Thesis: Transplantation of Fetal Ventral Mesencephalon in a Rat Model of Parkinson's Disease

Li Xiao PhD 1997, Department of Psychology, Supervisor: Dr. J.B. Becker. Thesis: Estrogen Modulation of the Forebrain Dopamine Systems: Neurochemical and Behavioral Studies

Eileen Curran PhD 1992, Neuroscience Program, University of Michigan. Supervisor: Dr. JB Becker. Thesis: Adrenal Medulla Grafts in an Animal Model of Parkinson's Disease.

Charles Neal PhD: 1990, Department of Anatomy & Cell Biology, University of Michigan. Supervisor: Dr. S. Newman. Thesis: Neuroanatomical Distribution of the Endogenous Opioid Precursors Proopiomelanocortin and Prodynorphin in the Male Syrian Hamster Mating Behavior Pathways.

Carl R. Belczynski PhD: 1989, Neuroscience Program, University of Michigan. Supervisor: Dr. K. Casey. Thesis: Neurophysiological Mechanisms of Cocaine Analgesia.

#### Postdoctoral Trainees

Allison Ahrens, PhD (University of Texas, Austin) 2012-2017 Behavioral analysis and neural coding of cues in sign and goal tracking Current position. Assistant Research Scientist, Department of Psychology, University of Michigan.

Emily Lehmann, MD (University of Michigan, Neurosurgery) 2010-2011 Neural mechanisms of deep brain stimulation in the basal ganglia. Current position. Assistant Professor, Department of Neurosurgery, University of Michigan.

Jennifer Taylor, PhD (Wayne State) 2005-2012 Neural activation in ventral pallidum in learned motor tasks and responses to reward cues. Current position. Neuroscience lab course manager at Michigan State University

Paul J. Meyer, PhD (Oregon Health & Science University) 2008-2012 Neural activation in ventral pallidum and nucleus accumbens related to sign and goal tracking. Co-supervised with Terry Robinson. Current Position. Assistant Professor University of Buffalo

Sophie George, PhD (University of Sussex) 2008- The role of medial prefrontal cortex and HPA axis in generation of PTSD-like symptoms mechanisms. Current position: Adjunct Research Investigator, Psychiatry, University of Michigan

Dayan Knox, PhD (Ohio State) 2005-2012 Neurobiological mediators of symptom development in animal model of PTSD Co-supervised with Israel Liberzon. Current Position: Assistant Professor, University of Delaware (2012) )

Matthew Matell, PhD 2001-2003. Neuronal mechanisms of sequence coding in the

(Duke)	dorsal striatum. Current Position: Associate Professor, Villanova University
Lucy E. Hadden, PhD (Harvard)	1998-2000. Functional integration in striatal neuronal networks. Software Engineer, Google Corporation.
Robert Meyer, PhD (Northern Kentucky)	1993-1995. Control of sequences of sensorimotor behavior. Independent business and project director LSU

## EXTRAMURAL PRESENTATIONS

### Invited Speaker, Workshops and Oral Presentations

2015	Emory University, Department of Biology
2010	St. Louis University, Department of Physiology and Pharmacology guest speaker
2010	Joint US-European Workshop On Informatics for Bio-Inspired Design: Reverse Engineering of Human Brain, 2010 Dubrovnik, Croatia
2009	BIO-ICT Convergence on Rhythmicity and Motor Control, Sheffield, July 1st-3rd 2009. Title: "Basal Ganglia Neural Mechanisms of Natural Movement Sequences."
2009	Crosby Lecture Visiting Professor, Department of Neurosurgery, University of Michigan 03-12-09. Title "Neural Coding of Reward and Movement in the Ventral Pallidum."
2009	Hotchkiss Brain Institute, University of Calgary, Calgary, Alberta. March 27, 2009. Title "Neural Coding of Reward in the Ventral Pallidum."
2009	Alberta Motor Control Meeting. March 27-29, 2009. Title "Neural Coding of Reward and Movement in the Ventral Pallidum."
2008	Department of Physiology, University of Michigan 12-19-08, Title: "Neural Coding of Reward in the Ventral Pallidum."
2008	6 <sup>th</sup> International Conference on Methods and Techniques in Behavioral Research. Symposium 1. August 26-29, 2008. Maastricht, The Netherlands. Title: "Brain Systems for Action Sequences."
2008	Neural Coding of Reward in the Ventral Pallidum. Department of Psychology, Texas A&M University 3-20-08
2008	Neural Coding of Taste in Ventral Pallidum. Hearing and

- Chemical Senses Seminar, University of Michigan 1-16-08
- 2007 The Biennial Meeting Of The Motivational Neuronal Network (May 2007). Workshop IV: The Dorsal/Ventral Divide: A Dated Concept? Porquerolles, France. Invited participant.
- 2006 Invited speaker at “Developing New Treatments for Tourette Syndrome: Clinical and Basic Science Dialogue”, September 10-12, 2006, Watergate Hotel, Washington DC sponsored by Tourette Syndrome Association, NINDS and NIMH. Presentation Title: “Striatal, nigral and dopamine mechanisms of sequential motor actions.”
- 2005 Math & Neuroscience Distinguished Lecture and Minisymposium speaker. Title. “Quantifying Neural Response Profiles in Ventral Pallidal Neurons: Coding Incentive Motivation.” University of Michigan
- 2004 Richard B. Stein symposium at the Canadian Physiological Society winter meeting (Vernon, BC). Title “Neuronal Mechanisms of Movement in the Basal Ganglia”.
- 2002 Department of Psychology, University of Michigan
- 2001 International Basal Ganglia Society VII, Auckland, New Zealand
- 1999 Sackler Institute: Movement and Development, Tel Aviv, Israel. Invited participant.
- 1998 Neuroscience Program, University of Michigan
- 1997 Department of Psychology, University of Memphis
- 1997 Emory-UT Memphis Basal Ganglia Workshop
- 1996 Bowman Gray School of Medicine, Department of Anatomy
- 1993 Department of Kinesiology, University of Michigan
- 1992 University of Indiana, Psychology Colloquium
- 1992 RS Dow Neurological Scientific Institute, Portland, OR,
- 1992 Satellite Meeting, Society for Neuroscience, Electrophysiology in Awake Animals
- 1991 IBRO World Congress of Neuroscience, Montreal
- 1989 International Basal Ganglia Society III, Cagliari, Italy
- 1986 Congress of International Union of Physiological Sciences, Vancouver
- 1988 IBRO World Congress of Neuroscience, Budapest
- 1984, 1988 Hereditary Disease Foundation, Santa Monica, Philadelphia,

## **ADMINISTRATION AND SERVICE:**

2010-2017	Department of Psychology Annual Review Committee
2017	Neuroscience Graduate Program, Admissions Committee
2012-2014	Department of Psychology Executive Committee
2014-2015	Department of Psychology Augmented Executive Committee
2012	Department of Psychology Biopsychology Laboratory Renovation Committee
2012	University of Michigan Advance Program Launch Committee (to provide support and guidance to new junior faculty) for Dr. Sara Aton
2005-	Department of Neurosurgery Deep Brain Stimulation Program
2011	Department of Psychology Annual Review Committee, Department of Psychology Academic Affairs Committee
2010	Task Force on Divesting UCUCA from ULAM (University committee as one LS&A representative)
2008-2009	Neuroscience Program Prelim Exam Committee
2008, 2006	Biopsychology Graduate Student Admissions Committee
2004	Planning Committee for Life Sciences, Values and Society Program “This is Your Brain on Dance: Integrating Dance, Health, Neuroscience and Technology” seminar (3/10/04)
1995	Admissions Committee, Biopsychology Area, Department of Psychology
1992-1994	University of Michigan Neuroscience Program Executive Committee
1993-1994	University of Michigan Medical School Advisory Committee on Primary Research Appointments, Promotions, and Titles (APRAPT)
1990-1991	Society for Neuroscience Michigan Chapter Secretary.
1992	University of Michigan Neuroscience Program and Society for Neuroscience Michigan Chapter combined annual meeting organizer and chair.
1988-1990	Society for Neuroscience Michigan Chapter Council Membership Chairman
1984-1986	Society for Neuroscience Michigan Chapter Council Representative for the University of Michigan

## TECHNOLOGY TRANSFER:

### Patents

- 2013 US Patent Application 12/255223 (Y/Ref: UM 3822; O/Ref: 100295.00044) "Hybrid Multichannel Printed Circuit Board Microdrive" Joint patent held by J. Wayne Aldridge, Andrew C. Klein, and Marc Bradshaw with Regents of the University of Michigan. Notice of Allowance Reporting January 9, 2013

## BIBLIOGRAPHY

Scopus Author ID: 7005768634  
orcid.org/0000-0003-2296-5885

### Peer Reviewed Publications:

- 1 Aldridge JW, Pomeranz B:  $\Delta^1$ -tetrahydrocannabinol derivative enhances excitatory synaptic potentials through a presynaptic mechanism in crayfish neuromuscular junctions. *Comp Biochem Physiol* 1977; 57C:75-77.
- 2 Anderson RJ, Aldridge JW, Murphy JT: Function of caudate neurons during limb movements in awake primates. *Brain Res* 1979; 173:489-502. PMID: 114273
- 3 Macpherson JM, Aldridge JW: A quantitative method of computer analysis of spike train data collected from behaving animals. *Brain Res* 1979; 175:183-188. PMID: 487149
- 4 Aldridge JW, Anderson RJ, Murphy JT: The role of basal ganglia in controlling a movement initiated by a visually presented cue. *Brain Res* 1980; 192:3-16. PMID: 6769544
- 5 Aldridge JW, Anderson RJ, Murphy JT: Sensory-motor processing in the caudate nucleus and globus pallidus: A single unit study in behaving primates. *Can J Physiol Pharmacol* 1980; 58:1192-1201. PMID: 7470992
- 6 Aldridge JW, Stein RB: Non-linear properties of the stretch reflex studied in the decerebrate cat. *J Neurophysiol* 1982; 47:179-192. PMID: 706209
- 7 Akazawa K, Aldridge JW, Steeves JD, Stein RB: Modulation of stretch reflexes during locomotion in the mesencephalic cat. *J Physiol (Lond)* 1982; 329:553-567. PMID: 7143259 PMCID: PMC1224796
- 8 Gilman S, Dauth GW, Frey KA, Aldridge JW, Penney JB: Basal ganglia glucose metabolic and single neural unit activity in experimental hemiplegia. *Intl J Neurosci* 1984; 18:79-93. PMID: 6242975

- 9 Gilman S, Dauth GW, Aldridge JW, Frey KA, Penney JB: Changes in basal ganglia metabolic activity after motor cortex ablation. In: Proceedings of the 5th Japanese Congress of Neurological Surgeons 1986; 161-168.
- 10 Sachdev RNS, Gilman S, Aldridge JW: Effects of excitotoxic striatal lesions on single unit activity in globus pallidus and entopeduncular nucleus of the cat. *Brain Res* 1989; 501:295-306. PMID: 2819442
- 11 Aldridge JW, Gilman S, Levin I: A signal generator for testing extracellular recording amplifiers and probes. *Brain Res Bull* 1988; 21:711-712. PMID: 3208157
- 12 Aldridge JW, Gilman S, Jones D: A microdrive adapter for chronic single unit recording. *Physiol Behav* 1988; 44:821-823. PMID: 3249759
- 13 Aldridge JW, Walden JL, Gilman S: Enhancing high speed digitization of single unit neuronal activity on a microcomputer using a hybrid software-hardware technique. *J Neurosci Meth* 1989; 28:205-208. PMID: 2502692
- 14 Albin RL, Aldridge JW, Young AB, Gilman S: Feline subthalamic nucleus neurons contain glutamate-like but not GABA-like or glycine-like immunoreactivity. *Brain Res* 1989; 491:185-188. PMID: 2569908
- 15 Aldridge JW, Gilman S, Dauth GW: Spontaneous neuronal unit activity in the primate basal ganglia and the effects of precentral cerebral cortical ablations. *Brain Res* 1990; 516:46-56. PMID: 2364281
- 16 Jaeger D, Gilman S, Aldridge JW: A multiwire microelectrode for single unit recording in deep brain structures. *J Neurosci Meth* 1990; 32:143-148. PMID: 2114505
- 17 Aldridge JW, Gilman S: The temporal structure of spike trains in the primate basal ganglia: afferent regulation of bursting demonstrated with precentral cortical ablation. *Brain Res* 1991; 543:123-138. PMID: 2054667
- 18 Sachdev RNS, Gilman S, Aldridge JW: Bursting properties of units in cat globus pallidus and entopeduncular nucleus: the effect of excitotoxic striatal lesions. *Brain Res* 1991; 549:194-204. PMID: 1884215
- 19 Jaeger D, Gilman S, Aldridge JW: Primate basal ganglia activity in a precue reaching task: preparation for movement. *Exp Brain Res* 1993; 95:51-64. PMID: 8405253
- 20 Aldridge JW, Berridge KC, Herman M, Zimmer L: Neuronal coding of serial order: Syntax of grooming in the neostriatum. *Psychol Sci* 1993; 4:391-395.
- 21 Jaeger D, Gilman S, Aldridge JW: Neuronal activity in the striatum and pallidum of primates related to the execution of externally cued reaching movements. *Brain Res* 1995; 694:111-127. PMID: 8974634
- 22 Aldridge JW, Thompson JF, Gilman S: Unilateral striatal lesions in the cat disrupt well-learned motor plans in a GO/NO-GO reaching task. *Exp. Brain Res.* 1997; 113:379-393. PMID: 9108206
- 23 Aldridge JW, Berridge KC: Coding of serial order by neostriatal neurons: a 'natural action' approach to movement sequence. *J. Neurosci* 1998; 18: 2777-2787. PMID: 9502834

- 24 Berridge KC, Aldridge JW: Super-stereotypy I: Enhancement of a complex movement sequence by systemic dopamine D1 agonists, *Synapse* 2000; 37: 194-204 PMID: 10881041
- 25 Berridge KC, Aldridge JW: Super-stereotypy II: Enhancement of a complex movement sequence by intraventricular dopamine D1 agonists, *Synapse* 2000; 37: 205-215 PMID: 10881042
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