

## CURRICULUM VITAE

**Robert W. Buchanan, M.D.**  
Maryland Psychiatric Research Center  
P.O. Box 2147  
Baltimore, MD 21228  
(410) 402-7876

### EDUCATION:

- 1972 - 1976 B.S. in Chemical Engineering, Magna Cum Laude, Lehigh University, Bethlehem, Pennsylvania (Scholarship)
- 1976 - 1980 M.D., UMDNJ - New Jersey Medical School, Newark, New Jersey
- July 1980 - June 1984 Residency in Psychiatry, George Washington University Medical Center, Washington, D.C.
- July 1983 - June 1984 Chief Resident, Inpatient Unit, George Washington University Medical Center, Washington, D.C.

### BOARD CERTIFICATION:

- 1985 - Present American Board of Psychiatry and Neurology, Certificate Number 27284

**LICENSURE:** 1984 - Present: Maryland, D30807

**MAJOR RESEARCH INTERESTS:** Pharmacological treatment of schizophrenia; neuroanatomical basis of schizophrenic psychopathology.

### EMPLOYMENT HISTORY:

- 7/1983 - 6/1984 Instructor, Psychiatry and Behavioral Sciences, George Washington University Medical Center, Washington, D.C.
- 7/1984 - 6/1986 Staff Psychiatrist, Eastern Shore Hospital Center, Cambridge, Maryland
- 7/1986 - 6/1988 Research Fellow, Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, Maryland
- 7/1988 - 6/1994 Research Assistant Professor, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland
- 3/1993 - Present Chief, Outpatient Research Program, Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, Maryland
- 7/1994 - 6/1998 Research Associate Professor, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland
- 7/1998 - 6/2002 Professor, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland
- 7/2002 - Present Professor with Tenure, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland
- 10/2010 - 3/2013 Deputy Director, Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, Maryland
- 4/2013 - 2/2016 Interim Director, Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, Maryland
- 2/2016 - 12/2021 Director, Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, Maryland

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## **ADMINISTRATIVE SERVICE:**

### **Institutional Service:**

1993 - Present Executive Committee, Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, Maryland

1998 - 2008 Intervention Research Center/Advanced Centers for Interventions and Services Research Executive Committee, Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, Maryland

1998 - Present Graduate Faculty, University of Maryland Graduate School, Baltimore, Maryland

1999 - Present Director, VISN 5 MIRECC Psychopharmacology Clinic, Baltimore Veterans Administration Medical Center, Baltimore, Maryland

2001 Strategic Planning Committee, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland

2001 - 2003 Alternate on the School of Medicine Council, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland

2001 - Present Research Track Committee, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland

2004 - 2005 Member, Department of Psychiatry Appointment, Promotion, and Tenure Committee

2005 - 2011 Chair, Department of Psychiatry Appointment, Promotion, and Tenure Committee

2005 - Present Chair, Baltimore VA Medical Center/VA Maryland Health Care System Clozapine Treatment Team

2011 - 2014 Member, University of Maryland School of Medicine Appointment, Promotion, and Tenure Committee

2014 - 2019 Member, Brain Science Research Consortium Unit Executive Committee

### **National Service:**

1994 - 1996 Reviewer for "Behavioral Science Track Award for Rapid Transition (B/START)" grant applications, NIH.

1996 Special reviewer for Veterans Administration Merit Awards.

1997 - 1999 Member, NIMH Treatment Assessment Review Committee

1999 - 2001 Member, NIMH ZMH1 National Institute of Mental Health Special Emphasis Panel, Interventions Research Review Committee (ITV-D)

2005 - 2006 Member, American College of Neuropsychopharmacology Ethics Committee

2006 - 2008 Chair, American College of Neuropsychopharmacology Ethics Committee

2006 - Present Member, National Alliance for Research on Schizophrenia and Depression (NARSAD) Scientific Council

2006 - Present Reviewer, National Alliance for Research on Schizophrenia and Depression (NARSAD) for Young Investigator, Independent Investigator, and Distinguished Investigator Awards

2008 - 2011 Ad Hoc Reviewer, NIMH R01 and R13 grant applications

2008 - 2011 Member, US Food and Drug Administration Psychopharmacologic Drugs Advisory Committee

2011 Reviewer, Wellcome Trust Senior Investigator Award

2014 - Present Chair, American Psychiatric Association/American Psychiatric Association Foundation Institutional Review Board

2018 - 2022 Treasurer, Schizophrenia International Research Society

2021 - Present Member, VA/DoD Evidence-based Clinical Practice Guideline on the Management of Schizophrenia Work Group

## **PROFESSIONAL MEMBERSHIP:**

Robert W. Buchanan, M.D.

- 1982 - Present American Psychiatric Association
- 1984 - Present Maryland Psychiatric Association
- 1984 - Present Alpha Omega Alpha
- 1997 - Present Society for Neuroscience
- 1997 - Present American College of Neuropsychopharmacology

**HONORS AND AWARDS:**

- 1984 Laughlin Fellow, American College of Psychiatrists
- 1984 Alpha Omega Alpha, George Washington University Medical School
- 1989 Young Investigator Award, International Congress on Schizophrenia Research
- 1992 Distinguished Fellow, American Psychiatric Association
- 2006 ISI Highly Cited Researcher
- 2007 Fellow, American College of Neuropsychopharmacology
- 2010 The Gerard E. Hogarty Excellence in Schizophrenia Research Memorial Award
- 2012 APA/Kempf Fund Award Research Development in Psychobiological Psychiatry
- 2013 Stanley Dean Research Award, American College of Psychiatrists
- 2013 APA Award for Research
- 2014 ISI Highly Cited Researcher
- 2015 ISI Highly Cited Researcher
- 2016 ISI Highly Cited Researcher
- 2017 Distinguished Life Fellow, American Psychiatric Association
- 2019 Visiting Professor, University of Massachusetts School of Medicine, Worcester, Massachusetts

**EDITORIAL TASKS:**

- 1986 - Present Reviewer for:
  - Schizophrenia Bulletin
  - Psychiatry Research
  - American Journal of Psychiatry
  - Psychiatric Services
  - Neuropsychopharmacology
  - Biological Psychiatry
  - Journal of Nervous and Mental Disease
  - Archives of General Psychiatry
  - Schizophrenia Research
  - Medical Letter

**EDITORIAL BOARD:**

- 2005 - 2007 Schizophrenia Bulletin
- 2008 - 2019 Clinical Schizophrenia & Related Psychoses
- 2013 - 2020 Schizophrenia Bulletin
- 2016 - Present Journal of Nervous and Mental Disease
- 2016 - Present Pharmacopsychiatry

**TEACHING RESPONSIBILITIES:**

- 1993-1994 Mentor, Program for Minority Research Training in Psychiatry (PMRTP), American Psychiatric Association.
- 1993-Present Supervise PGY-II, PGY-III, and PGY-IV psychiatry residents.
- 1999-Present Psychiatry Residency Research Track Mentor:
  - Cenk Tek, M.D. (2/98-1/01; Current Position: Associate Professor of Psychiatry, Yale University Medical School; Director, Psychosis Program, Connecticut Mental Health Center, New Haven, Connecticut)
  - David Potter, M.D. (7/00-6/03; Current Position: private practice)
  - Bernard Fischer, M.D. (7/04-6/07; Current Position: Assistant Professor of Psychiatry University of Maryland School of Medicine)

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William Keller, M.D. (7/07-6/11; Current Position: T32 Research Fellowship, Maryland Psychiatric Research Center, University of Maryland School of Medicine)

1993-Present Mentor, Post-Doctoral Research Fellows:

Juan Bustillo, M.D. (6/93-6/96; Current Position: Professor of Psychiatry, University of New Mexico School of Medicine)

Celso Arango, M.D. (1/97-2/99; Current Position: Associate Professor of Psychiatry, Universidad Complutense, Madrid, Spain; Voluntary Faculty Associate Professor of Psychiatry, University of Maryland School of Medicine, Maryland Psychiatric Research Center)

Bernard Fischer, M.D. (7/07-6/09; T32 Research Fellowship, Maryland Psychiatric Research Center, University of Maryland School of Medicine; Current Position: Assistant Professor of Psychiatry University of Maryland School of Medicine)

William Keller, M.D. (7/11-present; T32 Research Fellowship, Maryland Psychiatric Research Center, University of Maryland School of Medicine)

1996 Mentor, Short Term Research Training Program (STRTP), University of Maryland School of Medicine.

2004 - Present Lecturer, Biological Psychiatry GPILS 781; 5-10 graduate students  
Signs and Symptoms of Schizophrenia  
Pharmacological Treatment of Cognitive Impairments in People with Schizophrenia

2005 - Present Lecturer, T32 Fellowship Course on the Signs and Symptoms of Schizophrenia; 5-10 post-graduate students and fellows  
Signs and Symptoms of Schizophrenia

2011 – Present Presenter, MPRC Research mini-Elective for medical students (MS-2) in the PSYCH 458-Combined Accelerated Program in Psychiatry (CAPP)

### **CONTRACT SUPPORT:**

Center for Excellence on Early Intervention for Serious Mental Illness (Maryland Department of Health); 7/1/2018 – 6/30/2019; \$1,600,043; P.I.: Robert W. Buchanan, M.D.

### **GRANT SUPPORT:**

#### **Current:**

Kynurenic Acid and Cognitive Abnormalities in Schizophrenia (NIH P50 MH103222-05); 05/09/14-06/30/24; \$411,765; (P.I.: Robert Schwarcz); 15% time (role: P.I. for Project 4: “The Effects of Kynurenine Aminotransferase Inhibition in People with Schizophrenia”)

Prebiotic Treatment in People with Schizophrenia (NCCIH 4R33 AT09990-03); 09/15/18-08/31/24; \$385,933 current year direct costs; (PI: Robert W. Buchanan); 15% time

A Randomized Controlled Trial of a Telemonitoring Program, Project ECHO, to increase Clozapine Prescribing (NIMH 1R37 MH121564); 02/01/20-11/30/23; \$773,580 current year direct costs; (PI: Deana Kelly): 3% time

Center for Excellence on Early Intervention for Serious Mental Illness (MDH Agreement); 07/01/20-06/30/25; \$8,632,885 total; (PI: Robert W. Buchanan); 20% time

Maryland Early Intervention Program – Mental Health Block COVID (MDH Agreement); 11/1/21-3/30/23; \$1,354,981 total; (PI: Robert W. Buchanan); 5% time

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Clinical High Risk for Psychosis (MDH/BHA SAMHSA FOA No. SM-18-012); 02/01/2020-9/30/2022; \$169,010 total direct costs; (PI: Gloria Reeves); 5% time

4/7 Clinical for the Prevention of Violence in Schizophrenia: A Randomized Trial (NIH/NIMH); 02/01/2021-01/31/2026; \$193,125 total direct costs; (PI: Girgis); 1% time

Luteolin for the Treatment of Schizophrenia (Stanley Medical Research Institute 21T-002.a); 01/2022-12/2024; \$534,981 total; (PI: Robert W. Buchanan); 5%

### **Completed Grants:**

Deficit and Non-deficit Forms of Schizophrenia (NIMH: National Research Service Award); 07/02/86-07/01/88; \$66,000 (PI: Robert W. Buchanan).

Outpatient Treatment: Targeted Versus Maintenance Medication (Merit Award) (NIMH R01 MH35996); 07/01/87-06/30/97; \$1,411,509 total direct costs; (PI: William T. Carpenter, Jr., M.D.; Investigator: Robert W. Buchanan); 10% time.

National Alliance for Research on Schizophrenia and Depression (NARSAD); 1989-1990; \$30,000 (PI: Robert W. Buchanan).

Clozapine Treatment of Schizophrenic Outpatients (NIMH R01 MH45074); 04/01/90-03/31/95; \$1,014,719 total direct costs; (PI: Robert W. Buchanan); 35% time.

Neural Basis of the Deficit Syndrome of Schizophrenia (NIMH MH48225); 05/01/93-04/30/98; \$523,575 total direct costs; (PI: Robert W. Buchanan); 50% time.

Clinical Research Center: Classification and Course of the Schizophrenias (NIMH P50 MH40279); 08/01/93-07/31/98; \$2,781,009 total direct costs; (PI: William T. Carpenter, Jr.; Core Leader/Investigator: Robert W. Buchanan); 5% time.

Center for Research Services for Severe Mental Illness (NIMH 5P50 MH043703-18); 09/01/95-07/31/05; \$3,970,774 total direct costs; (PI: Donald M. Steinwachs); 2% time (role: Investigator).

Clozapine Treatment of Schizophrenic Outpatients (NIMH R01 MH45074); 04/01/96-03/31/01; \$1,386,514 total direct costs; (PI: Robert W. Buchanan); 30% time.

Intervention Research Center: Classification and Course of the Schizophrenias (NIMH P50 MH40279); 08/01/98-07/31/03; \$1,212,467 total direct costs; (PI: William T. Carpenter, Jr.); 15% time (10% Core Leader, 5% Co-PI).

Work Outcome in Schizophrenia: Brain Function/Structure (NIMH MH57749); 07/01/98-06/30/03; \$1,092,927; (PI: James Gold; Investigator: Robert W. Buchanan); 10% time.

Treatment of Negative Symptoms & Cognitive Impairments (NIMH MH59807); 12/01/99-11/30/03; \$272,577; (PI: William T. Carpenter, Jr.; Site PI: Robert W. Buchanan); 15% time.

Qualitative Structural Neuroimaging in Psychosis (NIMH MH3775-08); 07/01/99-03/31/04; \$1,943,716 total direct costs; (PI: Godfrey Pearlson; Investigator: Robert W. Buchanan); 10% time.

Research Track Residency Training Program (NIMH MH60487); 09/23/99-06/30/09; \$643,362; (PI: Gunvant Thaker); 2% time (role: Co-Investigator).

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Research Corporation Agreement with Novartis Pharma AG (Novartis Pharma AG); 09/20/00-09/19/02; 2,189,840 total direct costs; (PI: William T. Carpenter, Jr.; Core Leader/Investigator: Robert W. Buchanan); 15% time.

Galantamine Treatment of Schizophrenia (Stanley Medical Research Foundation); 08/01/01-07/31/04; \$692,006; (PI: Robert W. Buchanan); 20% time.

Clozapine Treatment of Schizophrenic Outpatients (NIMH R01 MH045074); 01/01/01-12/31/06; \$2,087,597 total direct costs; (PI: Robert W. Buchanan); 25% time.

Measurement and Treatment Development Activities on Cognition in Schizophrenia (NIMH MH22006); 10/01/02-09/30/04; \$648,422; (PI: Steve Marder and Michael Green); 5% time (role: Consultant and Executive Committee Member).

Advanced Centers for Interventions and Services Research (NIMH P30 MH068580); 09/03/03-07/31/08; \$6,045,094 total direct costs; (PI: Robert W. Buchanan, M.D.); 30% time.

Treatment Units for Research on Neurocognition and Schizophrenia (TURNS) (NIMH HHSN 278200441003C); 09/01/04-08/31/09; \$2,003,079 total direct costs; (PI: Steve Marder); 25% time (role: Maryland PI and Director of the Trials Management Unit).

Dopaminergic Mechanisms of Reward in Schizophrenia (NIMH 1R24 MH72647-01A1); 09/30/05-08/31/08; \$1,061,753 total direct costs; (PI: James Gold); 2% time (role: Co-Investigator).

Rasagiline in the Treatment of Persistent Negative Symptoms of Schizophrenia (Stanley Medical Research Institute 05T-705); 07/20/06-06/19/10 (1 year extension); \$450,039 total direct costs; (PI: Robert W. Buchanan); 15% time.

The Effects of the Cannabinoid-1 Receptor Antagonist, Rimonabant on Weight and Metabolic Risk Factors in People with Schizophrenia (NIMH 1 R34 MH077839-03); 07/01/06-06/30/09; \$450,000 total direct costs; (PI: Robert W. Buchanan); 10% time.

A Single-Dose, Placebo-Controlled, Stratified, Randomized, Double-Blind, Crossover Study to Determine the Pharmacodynamic Effects of AQW051 (Novartis Pharmaceuticals Corporation AQW051A); 09/25/08-06/30/10; \$208,326; (PI: Robert W. Buchanan); 15% time.

A Randomised Double-Blind, Placebo Controlled, Parallel Group Study to Evaluate the Cognitive Enhancing Effect of GSK239512 in Stable Patients with Schizophrenia (GlaxoSmithKline LLC Contract #013286); 04/05/10-12/31/10; \$339,938 total direct costs; (PI: Robert W. Buchanan); 15% time.

A Randomized, Double-Blind, Parallel-Design Trial Comparing the Effects of Eltoprazine (as an Adjunctive Treatment to Anti-Psychotics) with Placebo in Adults with DSM IV/DSM IV TR Diagnosis of Schizophrenia, in Improving one or more Dimensions of Cognitive Impairment Associated with Schizophrenia (PsychoGenics, Inc.; PGI 12004; Contract); 03/01/11-02/29/13; \$117,995 total direct costs; (PI: Robert W. Buchanan); 6.5% time.

Clinical and Biomarker Assessment of Efficacy of Cognitive Remediation in Patients with Schizophrenia Stabilized on Lurasidone (Research Foundation for Mental Hygiene, Inc. Contract); 09/01/10-08/31/13; \$106,192 total direct costs; (PI: Robert W. Buchanan); 9.72% time.

Recovery After Initial Schizophrenia Episode - Impact Evaluation Study (RAISE-IES) (NIMH 08-DS-00009); 7/13/09-12/31/13; \$2,473,748 total direct costs; (role: Study Psychiatrist/Investigator); 15% time.

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Interventions and Practice Research Infrastructure Program (IP-RISP) (NIMH 1R24 MH082755); 08/11/08-04/30/13 no cost extension; \$331,553 total direct costs; (PI: Robert W. Buchanan); 15% time.

MPRC Centers for Intervention Development and Applied Research (CIDAR) (NIMH 1P50 MH082999); 09/22/08-5/31/13 no cost extension; 1,999,879 total direct costs; (PI: William Carpenter); 23% time (role: Co-PI).

Adjunctive Minocycline in Clozapine Treated Patients for Psychosis and Cognition (NIH Exploratory/Developmental Research 1R21 MH091184-01A1); 04/08/11-03/31/13 no cost extension; \$135,000 total direct costs; (PI: Deanna Kelly); 1% time (role: Investigator).

New Experimental Medicine Studies: Fast-Fail Trials in Psychotic Spectrum Disorders (FAST-PS) (HHSN2712012000071); (P.I.: Jeffrey A. Lieberman); (role: site P.I.).

3/3-Social Processes Initiative in Neurobiology of the Schizophrenia(s) (Supplement). (NIMH 3R01 MH102318-02S1); 06/23/15-03/31/16; \$37,826 annual direct costs; (PI: Robert W. Buchanan); 5% time

Adjunct Aripiprazole for Symptomatic Hyperprolactinemia in Female Schizophrenia (NIMH 1R01 MH09007-01A1); 08/02/11-06/30/16 (no cost extension); \$100,000 total direct costs; (PI: Deanna Kelly); 1% time (role: Co-Investigator).

Anti-Inflammatory Combination Therapy for the Treatment of Schizophrenia (Stanley Medical Research Institute 11T-002); 04/1/12-11/30/16 (no cost extension); \$598,559 total direct costs; (PI: Robert W. Buchanan); 20% time.

1/2-Combined Oxytocin and CBSST for Social Function in People with Schizophrenia (1R34MH100362-01); 6/20/2013-3/31/2017 (no cost extension); \$690,750 total costs (P.I.: Robert W. Buchanan); 15% time.

Nicotinic Enhancement of Cognitive Remediation Training in Schizophrenia. (NIMH 1R21 MH095824-01A1); 04/01/14-03/31/17 (no cost extension); \$275,000 total direct costs; (PI: Britta Hahn); 5% time (role: Co-Investigator).

A Double-Blind of Adjunctive Valacyclovir to Improve Cognition in Early Phase Schizophrenia (Stanley Medical Research Institute); 01/01/14-06/30/17; \$123,896 total direct costs; (PI: Robert W. Buchanan); 11% time.

Treatment of Schizophrenia with I-Tetrahydropalmatine (I-THP): A Novel Dopamine Antagonist with Anti-Inflammatory and Antiprotozoal Activity (The Stanley Medical Research Institute 13T-007); 05/14/15-11/14/18; \$609,542 current year direct costs; (PI: Deanna Kelly); 1% time (role: Co-Investigator).

Kynurenic Acid and Cognitive Abnormalities in Schizophrenia (NIH P50 MH103222); 04/01/14-03/31/19; \$1,456,033; (P.I.: Robert Schwarcz); 15% time (role: P.I. for Project 4: "Tryptophan Challenge Study in Schizophrenia: The Relationship of Elevated Kynurenic Acid to Cognitive Impairments and Glutamate Release").

Mechanisms Mediating the Attention-Enhancing Effects of Nicotinic Receptor Agents. (NIH/NIDA 1R01 DA035813-01A1); 03/15/14-01/31/19; \$301,871 annual direct costs; (PI: Britta Hahn); 5% time (role: Co-Investigator).

3/3-Social Processes Initiative in Neurobiology of the Schizophrenia(s). (NIMH 1R01 MH102318-05);

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07/16/14-04/30/20 (NCE); \$175,000 annual direct costs; (PI: Robert W. Buchanan); 15% time.

Biomarker and Safety Study of Clozapine in Benign Ethnic Neutropenia (NIH/NIMH 5R01 MH102215-03); 07/01/15-06/30/19; \$604,778 current year direct costs; (PI: Deanna Kelly); 3% time (role: Co-Investigator).

Community Intervention for those at Clinical High Risk for Psychosis (Substance Abuse and Mental Health Services Administration vis a vis MD State Department of Health, SM081092-01); 09/30/18-09/29/22, (PI: Jason Schiffman)

Social Work Training to Reduce Duration of Untreated Psychosis. (NIMH 1R34 MH110506-01A1); 05/01/17-04/30/20 (NCE); \$199,969 current year direct costs; (Co-PI: Robert W. Buchanan; Contact PI); 10% time.

Adjunctive Withania Somnifera (Ashwagandha) for Persistent Symptoms in People with Schizophrenia (The Stanley Medical Research Institute 17T-004.b); 02/05/18-02/04/21; \$104,141 current year direct costs; (PI: Robert W. Buchanan); 2% time.

Confirmatory Double-Blind Placebo-Controlled Efficacy Trial of a Gluten-Free Diet in a Subgroup of Persons with Schizophrenia Who Have High Levels of IgA Ant-Gliadin Antibodies. (NIMH 1R01 MH113617-01); 08/01/17-05/31/22; \$955,279 current year direct costs; (PI: Deanna Kelly); 2% time (role: Co-Investigator)

Prebiotic Treatment in People with Schizophrenia-Administrative Supplement (NCCIH 3R61 AT009990-02S1); 09/2021-4/2022; \$167,544 (PI: Robert W. Buchanan); 10% time

Prebiotic Treatment in People with Schizophrenia (NCCIH 1R61 AT09990-01); 09/15/18-08/31/23; \$308,878 current year direct costs; (PI: Robert W. Buchanan); 15% time

Neuromodulation of Social Cognitive Circuitry in People with Schizophrenia Spectrum Disorders (NIH 1R61MH120188-01A1); Subaward 20-240 from Centre for Addiction and Mental Health; 05/01/20-04/30/23 NCE; \$367,339 current year direct costs; (PI: Aristotle Voineskos and Zafiris Daskalakis; Subaward PI: Robert W. Buchanan); 15% time

## **PUBLICATIONS:**

### **Book Chapters:**

1. Carpenter WT, Buchanan RW. Domains of psychopathology relevant to the study of etiology and treatment in schizophrenia. In: Schulz SC, Tamminga CA (eds), Schizophrenia: Scientific Progress. New York: Oxford University Press, 1989, pp 13-23.
2. Pulver AE, Buchanan RW, Thompson BW, McGrath J, Wolyniec PS. Neurological soft signs in an epidemiologic sample of psychotic patients: Preliminary analyses. In: Schulz SC, Tamminga CA (eds), Schizophrenia: Scientific Progress. New York: Oxford University Press, 1989, pp 78-82.
3. Thaker GK, Buchanan RW, Kirkpatrick B, Tamminga CA. Oculomotor performance in schizophrenia. In: Schulz SC, Tamminga CA (eds), Schizophrenia: Scientific Progress. New York: Oxford University Press, 1989, pp 115-123.
4. Carpenter WT, Kirkpatrick B, Buchanan RW. Conceptual approaches to the study of schizophrenia. In: Kales A, Stefanis CN, Talbott JA (eds), Recent Advances in Schizophrenia. New York: Springer-Verlag, 1990, pp 95-113.



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5. Carpenter WT, Buchanan RW, Kirkpatrick B, Thaker G, Tamminga C. Negative symptoms: A critique of current approaches. In: Marder DR, Andreasen NC, Tsuang MT (eds), Negative Versus Positive Schizophrenia. Heidelberg: Springer-Verlag, 1991, pp 126-133.
6. Tamminga CA, Kaneda H, Buchanan R, Kirkpatrick B, Thaker GK, Yablonski MB, Holcomb HH. The limbic system in schizophrenia: Pharmacologic and metabolic evidence. In: Tamminga CA, Schulz SC (eds), Advances in Neuropsychiatry and Psychopharmacology, Vol. 1. Schizophrenia Research. New York: Raven Press, 1991, pp 99-109.
7. Carpenter WT, Buchanan RW, Kirkpatrick B. The concept of the negative symptoms of schizophrenia. In: Greden JF, Tandon R (eds), Negative Schizophrenic Symptoms: Pathophysiology and Clinical Implications. Washington: American Psychiatric Press, 1991, pp 3-20.
8. Waltrip RW, Carrigan DR, Buchanan RW, Carpenter WT. A virus associated immunopathological theory of schizophrenia. In: Kurstak E (ed), Psychiatry and Biological Factors. New York: Plenum Medical Books, 1991, pp 23-51.
9. Carpenter WT, Buchanan RW. Introduction and overview of schizophrenia. In: Kaplan HI, Sadock BJ (eds), Comprehensive Textbook of Psychiatry/VI. Baltimore: Williams and Wilkins, 1995, pp 889-901.
10. Buchanan RW, Brandes M, Breier A. Treating negative symptoms: Pharmacological strategies. In: Breier A (ed), The New Pharmacotherapy of Schizophrenia. Washington DC: American Psychiatric Press, 1996, pp 179-204.
11. Breier A, Buchanan RW. Clozapine: Current status and clinical applications. In: Breier A (ed), The New Pharmacotherapy of Schizophrenia. Washington DC: American Psychiatric Press, 1996, pp 1-13.
12. Carpenter WT Jr, Buchanan RW, Conley RR. Pharmacotherapy of schizophrenia. In: SJ Enna, JT Coyle (eds), Pharmacological Management of Neurological and Psychiatric Disorders. New York: McGraw-Hill, 1998, pp 27-51.
13. Buchanan RW, Carpenter WT. Schizophrenia: Introduction and overview. In: Kaplan HI, Sadock BJ (eds), Comprehensive Textbook of Psychiatry/VII. Baltimore: Williams and Wilkins, 1999, pp 1096-1110.
14. Buchanan RW, McKenna PJ. Clozapine: Clinical use and experience. In: Buckley PF, Waddington JL (eds), Schizophrenia and Mood Disorders: The New Drug Therapies in Clinical Practice. Oxford, England: Butterworth-Heinemann, 2000, pp 21-31.
15. Buchanan RW, Carpenter WT Jr. Evaluating negative symptom treatment efficacy. In: Keefe R, McEvoy JP (eds), Negative Symptom and Cognitive Deficit Treatment Response in Schizophrenia. Washington DC: American Psychiatric Press, 2001, pp 1-18.
16. Kirkpatrick B, Buchanan RW, Ross DE, Carpenter WT Jr. Una enfermedad aparte dentro del síndrome de la esquizofrenia. In: Pascual EV, Rodón EP (eds), Esquizofrenia Negativa: Madrid, España: Aula Medica Ediciones, 2002, pp 13-31.
17. Lehman AF, Buchanan RW, Dickerson FB, Dixon LB, Goldberg R, Green-Paden L, Kreyenbuhl J. Evidence-based treatment for schizophrenia. In: Drake RE (guest ed), The Psychiatric

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Clinics of North America: Evidence-based Practices in Mental Health Care. Philadelphia: W.B. Saunders Company, 2003, Volume 26, pp 939-954.

18. Buchanan RW, Carpenter WT Jr. Concept of schizophrenia. In: Sadock BJ, Sadock VA (eds), Kaplan & Sadock's Comprehensive Textbook of Psychiatry/VI, Eighth Edition. New York: Lippincott Williams & Wilkins, 2005, pp 1329-1345.
19. Kelly DL, Buchanan RW. The current status of clozapine in and beyond treatment-resistant schizophrenia. In: Mortimer A, McKenna P (eds), Therapeutic Strategies in Schizophrenia. Oxford: Atlas Medical Publishing Ltd, 2010, pp. 157-172.
20. Bombin I, Arango C, Buchanan RW. Assessment for subtle neurological signs. In: Arciniegas DB, Anderson CA, Filley CM, Garcia TA (eds), Behavioral Neurology & Neuropsychiatry. Cambridge: Cambridge University Press, 2013, pp. 333-343.
21. Corvin A, Buchanan RW, Carpenter WT Jr, Kennedy JL, Keshavan MS, MacDonald AW III, Sass L, Wessa M. Which Aspects of Heterogeneity are Useful to Translational Success? In: Silverstein SM, Moghaddam B, Wykes T (eds), Schizophrenia: Evolution and Synthesis. Cambridge: The MIT Press, 2013, pp. 77-89.

### **Books:**

1. Lewis SW, Buchanan RW. Schizophrenia. Oxford, England: Health Press Limited, 1998.
2. Lewis SW, Buchanan RW. Fast Facts - Schizophrenia. Second Edition, Oxford, England: Health Press Limited, 2002.
3. Lewis SW, Buchanan RW. Fast Facts – Schizophrenia. Third Edition, Oxford, England: Health Press Limited, 2007.

### **Journal Articles:**

#### **Refereed:**

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Buchanan RW, Conley RC, Dickinson D, Nelson MW, Gold JM, McMahon RP. Galantamine for the treatment of cognitive impairments in patients with schizophrenia. American College of Neuropsychopharmacology 45<sup>th</sup> Annual Meeting, Hollywood, Florida, December 3-7, 2006.

Boggs DL, Nelson MW, Buchanan RW, Kelly DL, McMahon RP, Dickinson D, Gold JM, Feldman S, Ball MP, Liu F, Conley RR. Adjunctive atomoxetine on the psychiatric symptoms of schizophrenia. American College of Neuropsychopharmacology 46<sup>th</sup> Annual Meeting, Boca Raton, Florida, December 9-13, 2007.

Conley RR, Buchanan RW, Nelson MW, Dickinson D, Gold J, McMahon RP, Feldman S, Ball MP, Kelly DL, Boggs DL, Liu F. Atomoxetine for neurocognitive deficits in people with schizophrenia. American College of Neuropsychopharmacology 46<sup>th</sup> Annual Meeting, Boca Raton, Florida, December 9-13, 2007.

Cazorla P, Buchanan R, Panagides J, Kouassi A, Szegedi A. Asenapine versus olanzapine in patients with predominant, persistent negative symptoms of schizophrenia. 1<sup>st</sup> Schizophrenia International Research Society Conference, Venice, Italy, June 21-25, 2008.

Buchanan RW, Weiner E, Ball MP, Feldman S, Conley RR, Kelly D, Gold JM, McMahon R. Adjunctive risperidone in clozapine treated people with treatment-resistant schizophrenia. American College of Neuropsychopharmacology 47<sup>th</sup> Annual Meeting, Scottsdale, Arizona, December 8, 2008.

Cazorla P, Kouassi A, den Hollander W, Phiri P, Panagides J, Alphs L, Szegedi A, Schooler N, Buchanan R. Long-term treatment with asenapine versus olanzapine in subjects with predominant, persistent negative symptoms of schizophrenia. American College of Neuropsychopharmacology 47<sup>th</sup> Annual Meeting, Scottsdale, Arizona, December 9, 2008.

Buchanan RW. Combination treatment strategies in schizophrenia: Methodology and evidence. 49<sup>th</sup> Annual NCDEU Meeting, Hollywood, Florida, June 30, 2009.

Buchanan RW, Marder SR. The FDA-NIMH-MATRICES guidelines for clinical trial design of cognitive-enhancing drugs: What do we know five years later? 49<sup>th</sup> Annual NCDEU Meeting, Hollywood, Florida, July 1, 2009.

Buchanan RW. The FDA-NIMH-MATRICES guidelines for clinical trial design of cognitive-enhancing drugs: the Treatment Units for Research on Neurocognition and Schizophrenia (TURN) experiences. 49<sup>th</sup> Annual NCDEU Meeting, Hollywood, Florida, July 1, 2009.

Buchanan RW, Barch D, Csernansky J, Goff D, Gold J, Jarskog F, Javitt D, Keefe R, Lieberman J, McEvoy J, McMahon R, Marder S. MK-0777 for the Treatment of Cognitive Impairments in People with Schizophrenia. 2nd Schizophrenia International Research Society Conference, Florence, Italy, April 10-14, 2010.

Buchanan RW, Boggs DL, Conley RR, Gorelick DA, McMahon RP, Gold JM, Waltz J, Huestis MA, Kelly DL. A pilot study evaluating the cognitive effects of rimonabant in people with schizophrenia. American College of Neuropsychopharmacology 50<sup>th</sup> Annual Meeting, Waikoloa, Hawaii, December 5, 2011.

Keefe R, Buchanan R, Marder S, Schooler N, Dugar A, Zivkov M, Stewart M. Clinical trials of potential cognitive-enhancing drugs in schizophrenia: What have we learned so far?

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American College of Neuropsychopharmacology 50<sup>th</sup> Annual Meeting, Waikoloa, Hawaii, December 5, 2011.

Fischer BA, Rowland LM, Keller WR, Holcomb HH, Buchanan RW. Acamprosate acts as a partial agonist of the NMDA receptor: Evidence from a spectroscopy study in schizophrenia. American College of Neuropsychopharmacology 50<sup>th</sup> Annual Meeting, Waikoloa, Hawaii, December 7, 2011.

Keefe RSE, Buchanan RW, Marder SR, Schooler N, Dugar A, Zivkov M, Stewart M. Clinical Trials of Potential Cognitive-Enhancing Drugs in Schizophrenia: What Have We Learned So Far? 3rd Schizophrenia International Research Society Conference, Florence, Italy, April 14-18, 2012.

Kelly DL, Wehring HJ, McMahon RP, Liu F, Linthicum J, Verbalis JG, Buchanan RW, Strauss G, Rubin LH, Lee MR. Relationship of plasma oxytocin levels to baseline symptoms and symptom changes during oxytocin administration in men and women with schizophrenia. American College of Neuropsychopharmacology 51<sup>st</sup> Annual Meeting, Hollywood, Florida, December 3, 2012.

Buchanan RW, Weiner E, Kelly DL, McMahon RP, Gold JM, Gorelick D. Rasagiline in the treatment of the persistent negative symptoms of schizophrenia. American College of Neuropsychopharmacology 51<sup>st</sup> Annual Meeting, Hollywood, Florida, December 5, 2012.

Buchanan RW. Cognitive Impairments in Schizophrenia. American Psychiatric Association 166th Annual Meeting, San Francisco, California, May 18, 2013.

Buchanan RW.  $\alpha$ 7-Nicotinic Agents for the Treatment of Cognitive Impairments and Negative Symptoms. American Psychiatric Association 166th Annual Meeting, San Francisco, California, May 20, 2013.

Buchanan RW. The Neural Circuitry of Social Impairments in Schizophrenia Spectrum Disorders. American College of Neuropsychopharmacology 52<sup>nd</sup> Annual Meeting, Hollywood, Florida, December 9, 2013.

Reddy F, Horan W, Wynn JK, Corey-Lisle P, Maglante G, Barch DM, Buchanan RW, Gold J, Young J, Green MF. Assessing Effort-Based Decision-Making in Schizophrenia with Two Novel Behavioral Paradigms. American College of Neuropsychopharmacology 52<sup>nd</sup> Annual Meeting, Hollywood, Florida, December 9, 2013.

Fischer BA, Keller WP, McMahon RP, Meyer W, Miller M, Buchanan RW. Endothelial Function in Schizophrenia. American College of Neuropsychopharmacology 52<sup>nd</sup> Annual Meeting, Hollywood, Florida, December 10, 2013.

Barch DM, Marder SR, Harms MP, Jarskog LF, Cronenwett W, Chen L-S, Weiss M, Maguire RP, Pezous N, Feuerbach D, Lopez-Lopez C, Behrje RB, Gomez-Mancilla B, Buchanan RW. Task-Related Brain Activation in Subjects with Chronic, Stable Schizophrenia and the Effects of a Single-Dose  $\alpha$ -7 Nicotinic Acetylcholine Receptor Agonist (AQW051): A Placebo-Controlled, Double-Blind, Randomized Study. American College of Neuropsychopharmacology 52<sup>nd</sup> Annual Meeting, Hollywood, Florida, December 11, 2013.

Buchanan RW. Maryland Early Intervention: Overview. Mental Hygiene Administration's Conference: "Proactive Approaches to Care in a Time of Change", Baltimore, Maryland, May 14, 2014.

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Reddy F, Horan WP, Wynn JK, Corey-Lisle PK, Maglinte GA, Barch D, Buchanan RW, Gold J, Young J, Marder SR, Green MF. Assessing Effort-Based Decision-Making in Schizophrenia with Two Novel Behavioral Paradigms. 4<sup>th</sup> Schizophrenia International Research Society Conference, Florence, Italy, April 5-9, 2014.

Buchanan RW. The Neural Circuitry of Social Impairments in Schizophrenia Spectrum Disorders. 4<sup>th</sup> Schizophrenia International Research Society Conference, Florence, Italy, April 5-9, 2014.

Hawco C, Kovacevic N, Buchanan RW, Malhotra A, McIntosh AR, Voineskos A. Activation During a Facial Emotion Observe/Imitate Task and Social Cognitive Performance: An fMRI Analysis Using Partial Least Squares. Cognitive Neuroscience Society 22nd Annual Meeting, San Francisco, California, March 28-31, 2015.

Buchanan RW, Kelly DL, Strauss GP, Gold JM, McMahon RP, Wehring HJ, Weiner E, Osing J, Sullivan KM, Feldman SM, Carpenter WT. Oxytocin and Galantamine for the Treatment of Negative Symptoms and Cognitive Impairments in Schizophrenia. 15<sup>th</sup> International Congress on Schizophrenia Research, Colorado Springs, Colorado, March 29, 2015.

Garcia CP, Blanchard J, Buchanan RW, Kelly D, Strauss G, Gold JM, McMahon RP, Osing J, Adams HA, Carpenter WT. Subjective Responses to Affiliative Interactions in Schizophrenia: Examining the Contributions of Negative Symptoms and Plasma Oxytocin. 15<sup>th</sup> International Congress on Schizophrenia Research, Colorado Springs, Colorado, March 30, 2015.

Warren KR, Buchanan RW, McMahon RP, Wehring H, Kearns AM, Feldman S, Richardson C, Vyas G, Koola MM, Keller W, Muhler P, Cassell S, Weiner E, Carpenter WT. Effects of Intranasal Oxytocin on Satiety Signaling in People with Schizophrenia. 15<sup>th</sup> International Congress on Schizophrenia Research, Colorado Springs, Colorado, March 31, 2015.

Cohen AS, Strauss G, Mitchell K, Meaux L, Buchanan RW, McMahon R, Carpenter W. Computerized Vocal and Facial Analysis in Schizophrenia During Social Interactions: Data from the Baseline Phase of the Cidar Study. 15<sup>th</sup> International Congress on Schizophrenia Research, Colorado Springs, Colorado, April 1, 2015.

Hawco C, Kovacevic N, Buchanan RW, Malhotra A, McIntosh AR, Voineskos A. Activation During a Facial Emotion Observe/Imitate Task and Social Cognitive Performance: An fMRI Analysis Using Partial Least Squares. Organization for Human Brain Mapping Meeting, Honolulu, Hawaii, June 14-18, 2015.

Waltz J, Xu Z, Ruiz R, Brown E, Buchanan R, Gold J. Reduced Rostrolateral Prefrontal Cortex Activity Associated with Exploration in Schizophrenia. American College of Neuropsychopharmacology 54<sup>th</sup> Annual Meeting, Hollywood, Florida, December 7, 2015.

Mitchell KR, Strauss GP, Blanchard JJ, Buchanan RW, McMahon RP, Kelly DL, Adams HA, Carpenter WT, Cohen AS. Examining the Effects of Intranasal Oxytocin on Negative Symptoms in Schizophrenia Using Computer-Based Measures of Expressivity. 2016 Society for Affective Sciences Annual Conference, Chicago, Illinois, March 17-19, 2016.

McGovern J, Horan WP, Gard DE, Docherty NM, Strauss GP, Gold JM, Carpenter WT, Buchanan RW, McMahon RP, Cohen A. Vocal Expression Predicts Variance in Different Neurocognitive Domains in Schizophrenia Patients: Data from Five Archived Databases. 2016 Society for Research in Psychopathology Annual Conference, Baltimore, Maryland, September 29-October 2, 2016.

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Granholm EL, Kelly DL, Strauss GP, Gold JM, Weiner E, McMahon RP, Holden JL, Buchanan RW. Combined oxytocin and CBSST for social function in people with schizophrenia. 2017 Society for Research in Psychopathology Annual Conference, Denver, Colorado, September 14-17, 2017.

Buchanan RW, Kelly DL, Strauss GP, Gold JM, Weiner E, McMahon RP, Holden J, Granholm E. Combined oxytocin and CBSST for social function in people with schizophrenia. 16<sup>th</sup> International Congress on Schizophrenia Research, San Diego, California, March 2017.

Buchanan RW, Kelly DL, Strauss GP, Gold JM, Weiner E, McMahon RP, Holden J, Granholm E. Combined oxytocin and CBSST for social function in people with schizophrenia. American College of Neuropsychopharmacology 56<sup>th</sup> Annual Meeting, Palm Springs, California, December 3-7, 2017.

Hawco C, Buchanan RW, Calarco N, Mulsant BH, Viviano JD, Dickie EW, Argyelan M, Gold JM, Iacoboni M, DeRosse P, Foussias G, Malhotra AK, Voineskos A for the SPINS Group. Separable and replicable patterns of social brain function in people with and without serious mental illness. American College of Neuropsychopharmacology 57<sup>th</sup> Annual Meeting, Hollywood, Florida, December 9-13, 2018.

Feldman S, Powell M, Wehring H, Sayer M, Hackman A, Buchanan R, Adams H, Richardson C, Vyas G, McMahon R, Earl A, Sullivan K, Dickerson F, Koola M, Buckley P, McEvoy J, Liu F, Kearns A, Kelly D, Nicholas R, Luttrell S, Narang S, RachBeisel J. Childhood sexual abuse and adult sexual behavior in women with antipsychotic-induced hyperprolactinemia. 2019 Congress of the Schizophrenia International Research Society, Orlando, Florida, April 10-14, 2019.

Kearns A, Powell M, Wehring H, Sayer M, Buchanan R, Adams H, Richardson C, Vyas G, McMahon R, Earl A, Sullivan K, Dickerson F, Koola M, McEvoy J, Hackman A, Liu F, Feldman S, Buckley P, Kelly D, Luttrell S, Nicolas R, Narang S, RachBeisel J. 2019 Congress of the Schizophrenia International Research Society, Orlando, Florida, April 10-14, 2019.

Oliver L, Hawco C, Malhotra A, Buchanan R, Voineskos A. Social cognitive network connectivity supports a network efficiency model for better social cognitive performance across schizophrenia spectrum disorders and healthy controls. 2019 Congress of the Schizophrenia International Research Society, Orlando, Florida, April 10-14, 2019.

Wehring H, Powell M, Sayer M, Hackman A, Buchanan R, Nicholas R, Adams H, Richardson C, Vyas G, McMahon R, Earl A, Sullivan K, Luttrell S, Dickerson F, Narang S, Koola M, RachBeisel J, McEvoy J, Liu F, Feldman S, Buckley P, Kelly D. The effects of adjunct aripiprazole on measure of tobacco use and craving in women with psychotic disorders. 2019 Congress of the Schizophrenia International Research Society, Orlando, Florida, April 10-14, 2019.

Petti, E., Wallace, C., Boos, A., Rakhshan Rouhakhtar, P., Schiffman, J., Buchanan, R. W., DeVylder, J. E., & Smith, M. E. (2023, January 11-15). The Influence of Early Intervention for Psychosis Training on Provider Decision Making: A Multiple Case Study Analysis. Society for Social Work and Research Annual Conference, Phoenix, AZ.

## **INVITED SPEECHES, GRAND ROUNDS**

Robert W. Buchanan, M.D.

- 10/1988 Neurological Signs in Schizophrenia. Grand Rounds, Department of Psychiatry, George Washington University Medical Center, Washington, DC
- 7/1994 Update on Clozapine. Grand Rounds, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, Maryland
- 7/1994 Psychopharmacology of Schizophrenia. Go-Getters, Inc. Salisbury, Maryland
- 11/1994 Etiology and Pathophysiology of Schizophrenia. PhRMA Education and Research Institute (PERI), Philadelphia, Pennsylvania
- 12/1994 Where Are We Headed with Drug Treatment? 2nd Annual Maryland Conference on Schizophrenia, Pikesville, Maryland
- 1/1996 Efficacy & Side Effect Profile of Clozapine - A Reassessment. Department of Psychiatry, V.A. Medical Center, Philadelphia, Pennsylvania
- 11/1996 The New Genetics of Schizophrenia. Fourth Annual Maryland Schizophrenia Conference, Hunt Valley, Maryland
- 12/1997 The Schizophrenia PORT: A Review of the Findings. Psychiatry Grand Rounds, University of Maryland School of Medicine. Baltimore, Maryland
- 1/1998 Novel Anti-Psychotics, Novel Anti-Depressants and Formulary Management. The Annual Winter Meeting of the American Association of Community Psychiatrists (AACCP): Transformation of Public Mental Health Systems: A National Forum in a State in Transition, Baltimore, Maryland
- 11/1998 Second National Congress of Biological Psychiatry, Istanbul, Turkey
- 1/1999 Pharmacological Treatment of Negative Symptoms. Psychiatry Grand Rounds, Crownsville Hospital Center, Crownsville, Maryland
- 3/1999 The Treatment of Negative Symptoms and Deficit Syndrome of Schizophrenia. Grand Rounds and Research Seminar Presentations, Department of Psychiatry, The University of Iowa Hospitals & Clinics, Iowa City, Iowa
- 5/1999 Treatment of Negative Symptoms. New Perspectives in Schizophrenia Psychopathology Meeting, Madrid, Spain
- 11/2000 The Pharmacologic Treatment of Negative Symptoms and Cognitive Impairments. Psychiatry Grand Rounds, Springfield Hospital Center, Sykesville, Maryland
- 3/2001 The Pharmacological Treatment of Negative Symptoms. Grand Rounds Presentation, Department of Psychiatry, Hillside Hospital, Glen Oaks, New York
- 6/2001 New Generation Antipsychotics: What is the Evidence for Their Efficacy in Schizophrenia? Psychiatry Grand Rounds, Department of Psychiatry, Dartmouth-Hitchcock Medical Center, Dartmouth Medical School, Lebanon, New Hampshire



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- 11/2001 New Generation Antipsychotics: How Good Are They Really? Ninth Annual Maryland Conference on Schizophrenia, Baltimore, Maryland
- 5/2002 New Generation Antipsychotics: What is the Evidence for Their Efficacy? Video Conference, VISN 3, New York
- 9/2002 Neuropsychological Impairments in Schizophrenia: From Anatomical Localization to Functional Outcome. Presentation, Department of Psychiatry, University of Maryland Baltimore, School of Medicine, Baltimore, Maryland
- 11/2003 New Generation Antipsychotics Have Their Own Problems. Annual Maryland Schizophrenia Conference, Baltimore, Maryland
- 4/2004 Treatment Delivery Systems in Schizophrenia. Chair of Session, ICOSR CME/Distance Learning Initiative Meeting, Chicago, Illinois
- 4/2004 The Relationship of Neuropsychological Measures of Symptoms: Design Approaches to Isolate Specific Domains for Investigation. FDA-NIMH-MATRICES Workshop in Clinical Trial Designs for Neurocognitive Drugs for Schizophrenia, Neuroscience Center, Rockville, Maryland
- 4/2004 MATRICES Project: Applications to Drug Development in the Treatment of Cognition in Schizophrenia. CNS Clinical Trials and Drug Development Conference, Philadelphia, Pennsylvania
- 6/2004 Second Generation Antipsychotics: What is the Evidence for Their Efficacy? Grand Rounds, UMDNJ, New Jersey Medical School, Newark, New Jersey
- 3/2005 Adjunctive Pharmacotherapy for the Treatment of Cognitive Impairments in Patients with Schizophrenia. Grand Rounds, Department of Psychiatry, University of Maryland Baltimore, School of Medicine, Baltimore, Maryland
- 6/2005 Pharmacological Treatment of Cognitive Impairments in Patients with Schizophrenia. University of Santiago de Compostela, Santiago de Compostela, Spain
- 8/2005 Clinical Issues in the Design of Clinical Trials for Neurocognitive Drugs. The International Society for CNS Clinical Trials and Methodology (ISCTM) Meeting, Chicago, Illinois
- 2/2006 Design of Clinical Trials for Negative Symptoms: A Clinical/Academic Perspective. The International Society for CNS Clinical Trials and Methodology (ISCTM) Satellite Meeting, Washington, DC
- 9/2008 Cognition-Enhancing Interventions as Early Treatment in Schizophrenia. Invited Speech. 21<sup>st</sup> European College of Neuropsychopharmacology Congress, Barcelona, Spain
- 9/2008 New Directions in the Pharmacological Treatment of Schizophrenia. NARSAD meeting at the Maryland Psychiatric Research Center, Baltimore, Maryland

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- 10/2008 The Pharmacological Treatment of Cognitive Impairments in People with Schizophrenia. Schizophrenia Conference, Georgetown University, Washington, DC
- 2/2009 The Pharmacological Treatment of Cognitive Impairments in People with Schizophrenia. Grand Rounds, Long Island Jewish Medical Center, New Hyde Park, New York
- 3/2009 The 2009 PORT Psychopharmacology Treatment Recommendations and Summary Statements. Grand Rounds, Department of Psychiatry, University of Maryland Baltimore, School of Medicine, Baltimore, Maryland
- 4/2009 The 2009 PORT Psychopharmacology Treatment Recommendations and Summary Statements. Grand Rounds, Springfield Hospital Center, Sykesville, Maryland
- 5/2009 The Pharmacological Treatment of Cognitive Impairments in People with Schizophrenia. NIDA Clinical Rounds, Johns Hopkins Bayview Medical Center, Baltimore, Maryland
- 7/2009 Selective nicotinic agonists for the treatment of cognitive impairments in schizophrenia. Summer Meeting of the British Association for Psychopharmacology, Oxford, UK, July 26-29, 2009.
- 10/2010 Pharmacological Treatment of Cognitive Impairments in People with Schizophrenia. Grand Rounds, Dartmouth-Hitchcock Medical Center, Department of Psychiatry, Lebanon, New Hampshire
- 11/2010 Pharmacotherapy in Development for Cognition and for Negative Symptoms in Schizophrenia. Grand Rounds, University of Maryland School of Medicine, Department of Psychiatry, Baltimore, Maryland
- 9/2012 The Psychopharmacology of Psychosis: An Update on the State of the Art. Seventh Annual UC Davis Conference Psychotic Disorders, "Advanced Strategies for the Management of Psychosis: A State-of-the-Art Conference for Experienced Clinicians. University of California, Davis, Sacramento, California
- 2/2013 The Pharmacological Treatment of Cognitive Impairments in People with Schizophrenia. Dean Award Lecture. The American College of Psychiatrists 2013 Annual Meeting. Kauia'i, Hawaii
- 3/2013 Update on the Pharmacological Treatment of Cognitive Impairments in Schizophrenia. UMDNJ-University Behavioral HealthCare Schizophrenia Conference: Schizophrenia from Advances in Neuroscience to Evidence-Based Treatment. Somerset, New Jersey
- 6/2013 35 Years of Clinical Trials. University of Maryland School of Medicine, Festschrift Seminar Honoring William T. Carpenter, Jr., M.D. Linthicum Heights, Maryland
- 10/2014 Glutamatergic Agents for the Treatment of Schizophrenia. Invited Speech. 27<sup>th</sup> European College of Neuropsychopharmacology Congress, Berlin, Germany
- 3/2015 Neuroimaging Strategies to Dissect the Heterogeneity of the Psychoses. Chair

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Symposium 3-3, 15<sup>th</sup> International Congress on Schizophrenia Research,  
Colorado Springs, Colorado

- 11/2018 An Update on the Use of Clozapine to Treat Schizophrenia and Related Disorders. Grand Rounds, Trenton Psychiatric Hospital, Trenton, New Jersey
- 2/2019 The Neural Basis of Social Cognitive Impairments in Schizophrenia and Related Disorders. Grand Rounds, University of Massachusetts School of Medicine, Worcester, Massachusetts
- 11/2022 The Neural Basis of Social Cognitive Impairments in Schizophrenia and Related Disorders. Jerry M. Weiner M.D. Endowed Lectureship Grand Rounds, The George Washington University, Washington, DC



4/11/2023