

## Curriculum Vitae - GODFREY D. PEARLSON

DATE OF BIRTH: January 30, 1950  
PLACE OF BIRTH: Sunderland, England  
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The Institute of Living  
200 Retreat Avenue  
Hartford, CT 06106

Yale University  
Clinical Neuroscience Research Unit  
Abraham Ribicoff Research Facilities  
Connecticut Mental Health Center  
34 Park Street  
New Haven, CT 06519

### EDUCATION

1969-1974 Newcastle Upon Tyne University Medical School, England, M.B., B.S. Medicine: (equivalent to U.S. MD degree)

1975-1976 Columbia University, Graduate School of Arts and Sciences, New York. M.A. (Philosophy of Science)

### CAREER

2013- Present Adjunct Faculty, Lieber Institute, Johns Hopkins University.

2009 – Present Professor, Department of Neurobiology, Yale University School of Medicine.

2002 – Present Professor, (fulltime, tenured) Department of Psychiatry, Yale University School of Medicine, New Haven, CT.

2002 – Present Founding Director, Olin Neuropsychiatry Research Center, Institute of Living, Hartford, CT.

1993 – 2002 Professor, full-time faculty, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland. (2002-2012, part-time appt). Joint Appointment, Professor, Department of Mental Hygiene, Johns Hopkins University School of Public Health, Baltimore, Maryland.

1991 – 2002 Founding Director, Division of Psychiatry Neuro-Imaging, Department of Psychiatry, Johns Hopkins University School of Medicine, Baltimore, Maryland.

1987 – 1992 Associate Professor, full-time faculty, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland.

1987 – 1992 Joint Appointment, Associate Professor, Department of Mental Hygiene, Johns Hopkins University School of Public Health, Baltimore, Maryland.

1981 – 1987 Assistant Professor, Full-time faculty, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland.

1980 – 1981 Postdoctoral Instructor in Psychiatry. Laboratory of Dr. Robert G. Robinson, Johns Hopkins University School of Medicine. Baltimore, Maryland.

1979 – 2002 Psychiatrist, Active Staff, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland.

2002 – Present	Psychiatrist, Part-Time Staff, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland.
1978 – 1979	Chief Resident in Psychiatry, The Johns Hopkins Hospital, Baltimore, Maryland.
1976 – 1979	Resident in Psychiatry, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine.
1974 – 1975	Intern in General Internal Medicine, Newcastle Royal Victoria Infirmary, and in General Surgery, Newcastle General Hospital, England.

### **CERTIFICATIONS**

American Board of Neurology and Psychiatry (in psychiatry), 1980 (#21511)  
 Medical License State of Connecticut, 040622 (2002)  
 Medical License State of Maryland, D21805 (1977)  
 E.C.F.M.G. (#221-420-3)  
 F.L.E.X. (Maryland State Board of Medical Examiners) (#D-21805)

### **PROFESSIONAL HONORS AND AWARDS**

1973 Distinction, Medical Finals Part I, University of Newcastle Upon Tyne, England.  
 1974 Dickinson Scholarship (Surgery), University of Newcastle Upon Tyne, England.  
 1974 Wilfred Kingdon Prize (Psychiatry), University of Newcastle Upon Tyne, England.  
 1986 Lundbeck Lecturer, University of Newcastle Upon Tyne, England  
 1987 Mental Health Sciences Affiliations, Principal Lecturer. Hahnemann University, Pennsylvania.  
 1987 Fellowship, American Psychopathological Association.  
 1989 Distinguished Fellow, American Psychiatric Association.  
 1990 Annual Lecture, American Academy of Clinical Psychiatrists.  
 1991 Invited Lectures - Annual NIMH CRC Directors Meeting; Royal College of Psychiatrists, and Institute of Psychiatry, U.K.  
 1993 Invited Authorship and Lecture - American Psychiatric Association 12th Annual Review of Psychiatry, 1993. "Psychiatric Applications of MRI".  
 1993 Membership, American College of Neuropsychopharmacology  
 1993 Invited Lectures - Royal College of Psychiatrists, Institute of Psychiatry, U.K.  
 1996 Ziskin-Somerfeld Award, Society of Biological Psychiatry, U.S.  
 1997 Martell Gold Medal, UK  
 1999 Fellowship, ACNP  
 2000 Michael Visiting Professorship, Weizmann Institute, Rehovot, Israel  
 2000 NARSAD Distinguished Investigator Award  
 2001 Bernard Sisskin Annual Neurology Lecture, Lenox Hill/NYU  
 2002 Mysell Lecture, Harvard University  
 2003 ISI – Most Highly Cited Publications,  
 2003 Israel Biological Psychiatry Mentor Program  
 2003 – 2005 Society of Biological Psychiatry- Scientific Program Ctee  
 2004 Program Chair, ECNS-ISONIP joint meeting, Irvine CA  
 Frontiers of Science Lecturer, 2004 Annual APA Meeting  
 2005 - 2014 MERIT award, NIMH  
 2006 NARSAD Scientific Council, ACNP Program Ctee  
 2008 30<sup>th</sup> Albert Beile Memorial Award, Jefferson Medical College  
 2009 NeuroImage- Top 10 top cited scientific articles 2008  
 American College of Psychiatrists, Member  
 2011 National Academy of Neuropsychology. Nelson Butters Award, for Research Contributions to Clinical Neuropsychology.  
 2013 - current APA Scientific Program Committee, ICOSR Scientific Program Committee  
 2014 Distinguished Life Fellow, American Psychiatric Association  
 2015 Stanley Dean Award for Schizophrenia Research, American College of Psychiatrists  
 2015 Johns Hopkins Society of Scholars (distinguished alumni)

## **DEPARTMENTAL, MEDICAL SCHOOL AND UNIVERSITY COMMITTEES**

### **YALE UNIVERSITY COMMITTEES**

2002 – Present Senior Faculty/Promotions Committee, Psychiatry  
2003 – 2008 Donaghue/PRIME Research Committee

### **HARTFORD HOSPITAL COMMITTEES**

2002 – Present Research Committee  
2002 – Present Neuroscience Services Committee  
2002 – Present Psychiatry Research Committee  
2002 – Present Schizophrenia Research Committee

### **OTHER PROFESSIONAL ACTIVITIES**

2003 – 2008 Donaghue Foundation Scientific Research Review Panel

### **NATIONAL REVIEW COMMITTEES**

1994 – 1997 Review Panel: Scottish Rite Schizophrenia Research Program  
1997 – Present Ad Hoc scientific Review APA Annual Meeting  
2013 – Present American Psychiatric Association Scientific Review Committee.  
2003 – Present NARSAD/BBRF proposal review committee  
1991 – 1994 Reviewer, National Institute of Mental Health, Clinical Neurosciences Review Committee (formerly Clinical Biology Subcommittee, NPAS)  
1989 – Present Ad-hoc reviewer, National Institute on Drug Abuse.  
1988 Advisor: Work group on Psychotic Disorders for DSM IV - Late life onset Schizophrenia. Advisor: DSM -IV work group on schizophrenia and related psychoses.  
1986 – 1998 American Medical Association-Diagnostic and Therapeutic Technology Assessment Program of the Council on Scientific Affairs.  
1985 – Present Frequent ad-hoc reviewer, National Institute of Mental Health, Special Review Committees (NPAS, PCB-2, TDA-3) NIMH/NIAAA

### **INTERNATIONAL SCIENTIFIC REVIEW**

1995 – Present Canadian Medical Research Council  
1995 – Present International Human Frontier Science Program (HFSP)  
1995 – Present Swiss National Science Foundation  
1993 – Present UK - Medical Research Council ad Hoc Scientific Review  
1993 – Present Wellcome Trust (UK)

### **ADVISORY COMMITTEES**

1997 – 2002 NARSAD/Stanley Neurobiology review panel at JHU.  
1988 – 2002 Depression and Related Disorders Association (DRADA), Scientific Advisory Committee.

### **SOCIETY MEMBERSHIPS**

American Association for the Advancement of Science  
American College of Neuropsychopharmacology. (Fellow)  
American Federation for Aging Research  
American Neuropsychiatric Association  
American Psychiatric Association (Fellow)  
American Psychopathological Association (Fellow)  
Association for Research in Nervous and Mental Disease  
Eastern Psychological Association  
International Brain Research Organization  
International Society for Neuroimaging in Psychiatry  
Johns Hopkins Medical and Surgical Association  
Society for Neuroscience

**MISCELLANEOUS**

International Congress on Schizophrenia Research - Program Consultant 1996, 2013, 2015.  
University of Pittsburgh Medical Center – Interventional Mental Health CRS for Study of Late - Life Mood Disorders: External Advisory Board 1995 - 2000  
AAGP, Alzheimer’s Association, American Geriatrics Soc. Expert Advisory Panel- Use of Neuroimaging in early diagnosis of Alzheimer’s disease, (see report in JAMA, 278: 1363-1371, 1997).

**EDITORIAL BOARDS**

Biological Psychiatry  
Biological Psychiatry: Cognitive Neuroscience and Neuroimaging  
Schizophrenia Bulletin  
Frontiers in Neuropsychiatric Imaging  
Brain Imaging and Behavior  
Psychiatry Research: Neuro-imaging.  
J. Adv. Schizophrenia and Brain Research

**REVIEWER - JOURNALS**

Archives of General Psychiatry	Journal of Abnormal Psychology
Psychiatry Research	American Journal of Psychiatry
Neuroimage	Journal of Nervous & Mental Disease
Schizophrenia Bulletin	Psychosomatics
Archives of Neurology	New England Journal of Medicine
Science	PNAS, HBM

**COMMUNITY SERVICE**

**The BrainDance Awards** [http://www.nrc-iol.org/Braindance/onrc\\_braindance.asp](http://www.nrc-iol.org/Braindance/onrc_braindance.asp)  
Dr. Pearlson is co-founder of the annual BrainDance Competition, started in 2004, which is open to high school students across New England. The BrainDance Awards encourage students to gain knowledge about psychiatric diseases and to develop a more tolerant and realistic perspective toward people with severe psychiatric problems by offering awards for art, essays and scientific projects related to mental illness. Winners attend an annual lecture related to mental illness and/or stigma and showcase their work.

**Jessie’s Community Gardens Project** <https://www.facebook.com/pages/Jessies-Community-Gardens/>  
As a CT Certified Master Gardener, Dr. Pearlson founded and directs the B’nai Tikvoh Shalom branch of this community garden project, that grows and harvests vegetable crops for donation to local food banks for homeless/needy persons.

## MENTORSHIP

### 1. RESIDENT, RESEARCH ELECTIVE AND POSTDOCTORAL FELLOWSHIP SUPERVISOR (Representative Selection):

Dr. Paul Moberg, 1983-4. Olfactory Memory in HD and schizophrenia

Dr. Christopher Ross, 1988. Dopamine D2 receptor PET scans in schizophrenia vs. bipolar illness.

Dr. Jeffrey Moore, 1986-7. Negative symptoms in late-life onset schizophrenic patients.

\*Dr. Alistair Burns, 1986. Centrum semiovale white matter density in late life schizophrenia, AD, normal aging.

\*Dr. Martin Deahl, 1987. Cerebral atrophy measures in schizophrenia and affective disorder.

Dr. Richard Powers, 1987. MRI atlas construction.

\*Dr. Jeremy Broadhead, 1987. Temporal ventricular horn assessment in schizophrenics versus controls.

Dr. Patrick Barta, 1988. Computer-based segmentation applied to MRI images in schizophrenia, MRI display software.

Dr. Gordon Harris, 1988. Computer reconstruction and registration of SPECT image sets (Ph.D. thesis advisor)

Dr. Elizabeth Aylward, 1989, subsequently, assistant to associate professor JHU. Quantitative brain atrophy measures on MRI and CT. Measurement of suprasellar cistern, presymptomatic Huntington's disease.

Dr. Laura Marsh, 1990. MRI in schizophrenia: Replication of post-mortem studies.

\*Dr. Raj Persaud, 1990. MRI in schizophrenia: Basal ganglia.

Dr. Frederick Schaerf 1990. Imaging in HIV dementia

Dr. Steven Machlin, 1989. MRI and SPECT changes in patients with obsessive-compulsive disorder.

\*Dr. Peter Woodruff, 1991. MRI in schizophrenia: Corpus callosum.

## CURRENT STATUS

Professor, Neuropsychiatry, University of Pennsylvania. NIH RO1s

Professor, Psychiatry, Neuroscience, Johns Hopkins Univ., Director, Huntington's Disease Project, Neuroscience research, NIH awardee. Pew Scholar. Academic psychiatrist, Ohio.

Vice Dean for Clinical Affairs and Professor of Geriatric Psychiatry, Manchester University, U.K., formerly Wellcome Lectureship, Dr. Raymond Levy, Institute of Psychiatry (Geriatrics) London, U.K. 1989 IPA Psycho-geriatrics Research Award.

Consultant Psychiatrist, Researcher, Denis Hill Unit, Bethlem Hosp., London, U.K.

Deputy Chief, Psychogeriatrics, University of Alabama, Birmingham. NIH awardee.

Consultant psychiatrist, U.K. Research in neuropathology of amygdala.

Associate Professor, Johns Hopkins Univ. NIH FIRST, R01's, NARSAD, Scottish Rite awardee.

Professor, Radiology, Harvard University/Director MGH 3-D Imaging Lab. NIH Awardee.

Director, Office of Science-Industry Partnerships, Seattle Children's Research Institute (SCRI). Formerly Assoc. Director, Seattle SCRI Center for Integrative Brain Research. Professor, Radiology, U. Washington Seattle. NIH Awardee, HDSA Awardee, **multiple NIH awards.**

Professor, Dept of Neurology, Baylor University, Texas. Prev. Johns Hopkins U. Parkinson's disease research. Research Fellowship, Dr. Daniel Weinberger, NIH Intramural. MRI research. Young Investigator Award, Third Interl. Congress on Schizophrenia Research, 1991. **NIH Awardee.**

Professor, Maudsley Hospital, London, U.K. MRI research in affective disorder. Author

Private practice, Ft. Myers, Fla.

Private practice, FL.

Professor Head of Division of Psychiatry Neuroimaging, Sheffield University, UK. Prev. Faculty, Maudsley Hospital, London, U.K. Functional Brain Imaging Research, **Wellcome Awardee, Fulbright Awardee**

## RESIDENT, RESEARCH ELECTIVE AND POSTDOCTORAL FELLOWSHIP SUPERVISOR Cont'd.

Dr. Benjamin Greenberg, 1991, MRI of basal ganglia in HIV dementia.

\*Dr. Rajiv Menon, 1991. MRI of superior temporal gyrus in schizophrenia.

Dr. J.Thomas Noga, 1991. MRI of cingulate gyrus in schizophrenia.

\*Dr. Iain McGilchrist, 1992. Parietal cortical reconstruction from 3-D MRI.

Dr. Richard Petty, 1992. Planum temporale reconstruction from 3-D MRI

Dr. Thomas Schlaepfer, 1991-1992 and 1993-1996. PET in cocaine abusers, SPECT in opiate abuse

\*Dr. Sophia Frangou, 1994. Superior temporal gyrus in schizophrenia and Down syndrome

\* Dr. Tonmoy Sharma, 1994-1995. Cortical grey matter in schizophrenics and their families

Dr. Melissa Frederikse, 1995-1997. IPL in schizophrenia

Dr. Nancy Honeycutt, 1995-1996. Amygdala and hippocampus in schizophrenia

Dr. Andrej Marusic, 1997. Statistical parametric mapping applied to SPECT rCBF in early AD

Dr. Paul Rivkin, 1997-1998. fMRI in presymptomatic AD

\*Dr. Paula Dazzan, 1997-1998. Cortical surface area in schizophrenia

Dr. Sergio Nicastrì 1998-99  
rCBF in cocaine abusers

Dr. Laura Amodei, 2000-2001. Diffusion tensor imaging of language circuits in schizophrenia.

Dr. Vince Calhoun 2000-2002. Application of Independent Component analysis to virtual driving/fMRI (Ph.D. thesis advisor)

Dr. Sarah Reading, 2001-2002. fMRI of attentional networks in schizophrenia

### CURRENT STATUS

Professor, Brown University Prev., prev. Research Faculty, Lab. of Dr. D. Murphy, NIMH. Society of Biological Psychiatry, Dista Fellowship, 1991. **NIH Awardee**

Senior Faculty, Psychogeriatrics, Chelsea, Maudsley Hospital, London, U.K.

Faculty, Emory University Atlanta, GA.  
Prev. fellow, NIMH/St. Eliz., Washington, D.C. (Lab of Dr. D. Weinberger and Dr. Joel Kleinman).

Faculty, Maudsley Hospital,  
London, U.K. Brain Imaging Research.

Faculty, University of Pennsylvania, Lab of Dr. Raquel Gur.

Dean of Medical Education, Professor, and Vice-Chair, Dept. Psychiatry, U. Bonn, Germany.  
Awardee - **Swiss Nat. Sci. Foundation.**

Professor Psychiatry and Chief of Psychosis Research Program Mt. Sinai School of Medicine NYC. Prev. Research/Clinical Faculty, Institute of Psychiatry, London, U.K., **Awardee - Wellcome Foundation, NIMH R01.**

Director, Cognitive Psychopharm. Lab. Previously Faculty, Institute of Psychiatry, London, U.K., **MRC Awardee**

Assistant Professor/UMDNJ, Quantitative MRI research

Assistant Professor, Johns Hopkins Univ., Quantitative MRI research. **NIH Awardee**

Deceased. Former Director, National Psychiatric Research Institute. Republic of Slovenia

Faculty, Johns Hopkins University, Department of Psychiatry Neuroimaging. fMRI research **NIH Awardee**

Faculty, King's College Psychiatry, London, U.K  
Head, Div of Early Psychosis Research

Psychiatry Faculty, Sao Paulo, Brazil  
Humphrey Fellow

Radiology Johns Hopkins U.

Distinguished Professor, University of New Mexico.  
**NIMH, NSF, NIBIB, multiple RO1 awardee.**  
ISNIP junior investigator award 2004.  
ACNP Elkes Award 2013.

Asst. Prof, Johns Hopkins Dept. Psychiatry  
**NIMH K Awardee**

**-RESIDENT, RESEARCH ELECTIVE AND POSTDOCTORAL FELLOWSHIP SUPERVISOR Cont'd.**

**CURRENT STATUS**

**\*Dr. Richard Kanaan**, 2001-2002. fMRI of verbal binding in schizophrenia

Faculty, Dept of Psychiatry, London, UK  
DTI research

**Dr. Wendy Kates**, 2000-2001. MRI studies of velo-cardio-facial syndrome (22q.11 deletion).

Professor, Dept of Psychiatry, SUNY Upstate.  
Director, Developmental Imaging Laboratory. **NIH R01 awardee**

**Dr. Jin-Suh Kim**, 2001-2002. Diffusion tensor imaging (Current)

Asst. Prof Radiology, U. Iowa

**Dr. Michal Assaf**, 2001-2003. fMRI in thought disorder

Sr. Scientist ONRC, Asst Clin Professor, Yale U.  
Dept Psychiatry. NAAR, Donaghue Foundation  
Awardee. **NIMH R01 Awardee**

**Dr. Kristen McKiernan**, 2002- Task-induced deactivation in fMRI

Sr. Scientist ONRC, Asst Clin Professor, Yale U.  
Dept Psychiatry **NIA R21 Awardee**

**Dr. Michael Stevens**, 2004- fMRI of impulsivity, (K Award primary mentor)

Sr. Scientist ONRC, Assoc Clin Professor, Yale U.  
Dept Psychiatry. **NIMH K Awardee, RO1 Awardee**

**Dr. Matthew Kurtz** 2004- fMRI of cognitive rehabilitation in schizophrenia, (K Award advisor)

Associate Prof, Wesleyan U, Asst Clin Professor, Yale U. Dept Psychiatry. **NIMH K Awardee**

**Dr. Beth Turner Anderson** 2007 Amphetamine interactions with COMT Genotype

Current Staff Scientist, Olin Center IOL/HH  
**NIDA Awardee**

**Dr. Sharna Jamadar** 2010-2011, fMRI in Schizophrenia

Junior faculty, Monash University, Australia

**Dr. Janet Ng** 2012- Current. Neuroscience of Obesity

Institute of Living

**Dr. Haley Yarosh** 2012- Current. T32 Neurobiology of Impulsive/Risky Choice.

Yale University

*\* Visiting fellows, Maudsley Hospital, London, U.K.*

**RESEARCH PROJECT SUPERVISION:**

Loyola College Psychology MA Program

1988 D. Houlihan: Longitudinal follow-up of 350 chronic pain patients and controls.  
1986 M. Haden: Electrodermal non-responding and VBR in schizophrenia.  
1984 – 1985 N.J. Yatron: Cognitive distortion and depressed mood in chronic pain.  
1982 – 1983 D.J. Garbacz: VBR-clinical correlates in bipolar disorder.

Howard University Neuropsychology Ph.D. Program

1983 – 1985 S.C. Levin: Structural CT change in bipolar disorder assessed by image processing.  
Relationship to cognitive abnormalities. Thesis advisor.

University of Maryland, Baltimore County Ph.D. Program

2000 V.D. Calhoun: Independent Component Analysis of fMRI applied to Complex Tasks.

## **RESEARCH FUNDING**

### **Ongoing Research Support – Pearlson, Godfrey D. (Annual \$)**

HHC Research Institute (Pearlson) 07/01/2012 - 06/30/15  
HH Interdisciplinary Center on Obesity Research \$870,000  
This project is collaboration between the Olin Center and the HH Surgical Weight Loss Center (SWLC) to examine the ability of pre-surgical neuroimaging & neuroendocrine testing to predict 12-month post-surgical outcome in patients undergoing surgical weight-loss procedures, (comprising laparoscopic gastric banding, sleeve gastrectomy and Roux-en-Y gastric bypass). The project assesses metabolic aspects of obesity and satiety, physiology of feeding behavior, impulsivity, and addiction measures and regulation of craving. Neuroimaging is re-assessed 12 months following surgery.

2P50 AA012870-11 (Krystal) 6/1/2011 – 5/30/2016  
NIAAA (Krystal, Center PI) \$180,812  
Center for the Translational Neuroscience of Alcoholism  
Project 3: Functional neuroimaging of alcoholism vulnerability; glutamate, reward, impulsivity and Pavlovian-Instrumental Transfer (PIT)  
Role: Project PI  
The major goals of the project are to examine effects of NMDA receptor blockade on fMRI activation patterns in reward and impulsivity tasks that may be vulnerability markers for alcoholism risk. The overall PO1 examines neurotransmitter, genetic, imaging and electrophysiologic alcoholism vulnerability markers

1R01MH095888-01A1 (PI: Assaf) 07/1/12 - 06/30/2017  
NIMH \$425,170  
Title: The Social Brain in Schizophrenia and Autism Spectrum Disorders  
The goals of this study are (1) to characterize the commonalities and differences related to social-processes between autism spectrum disorders (ASDs) and schizophrenia (SZ) patients, by directly comparing their social functions and fMRI and ERP brain activity during several social cognitive process tasks; and (2) to use the neurophysiological features of social cognition as a dimensional classifier of patients into more natural and meaningful sub-groups.

1R01MH096957-01 (PI: Pearlson) 06/1/13 - 5/31/16  
NIMH \$782,021  
3/4-Psychosis and Affective Research Domains and Intermediate Phenotypes (PARDIP)  
The Psychosis and Affective Research Domains and Intermediate Phenotypes (PARDIP) project takes a systematic approach of reducing heterogeneity in bipolar disorder by first examining psychosis and affective dimensions separately, defining the underlying, heritable physiological deficits that mark risk for each of the pathological domains (i.e., endophenotypes), and collecting blood samples for future genetic/biomarker studies

1R01MH096957-02S1 (PI: Pearlson) 8/26/24 - 6/30/2016  
NIMH \$222,911  
RDoC-db data submissions and data dictionaries for BSNIP-1 and PARDIP  
The goals of this study is to prepare data for sharing in the RDoC Database by defining data structures, cleaning, and formatting the data, and uploading to the RDoC-db.

1R01DA035058-S1 (PI: Potenza, Carroll) 08/01/13 - 07/31/17  
NIDA \$110.614  
Neural Mechanisms of CBT in Cocaine Dependence  
Dr. Pearlson is an investigator on this supplement to generate a neuroinformatic database of fMRI reward data from multiple collaborating sites.

1R01MH102854-01A1 (PI: Stevens) 12/15/14 – 11/30/2018  
NIMH \$728,737  
Neural Architecture of Emotion Regulation, Adolescent Development and Depression  
The goals of this study are (1) To use fMRI effective connectivity analyses to confirm and specify which top-down PFC→amygdala influences underlie ER, to test novel hypotheses about alternative pathways



involved in ER, and to evaluate their specificity to different emotional valences and ER tactics (2) To identify what kinds of ER neural system causal interaction weaknesses underlie ineffective ER. (3) To determine if specific impaired ER neural network interactions represent risk and/or state-related dysfunction biomarkers for adolescent Major Depressive Disorder

### **Pending Grant Proposals.**

NIMH 2R01MH077945-05A1 (PI: Pearlson) \$814,589 annually 4/01/2014 – 3/31/2019  
3/5 Bipolar-Schizophrenia Network for Intermediate Phenotypes 2 (B-SNIP-2) AN:3592533 (2.4)  
The DSM major psychosis diagnoses (schizophrenia, schizoaffective disorder, bipolar disorder with psychosis) overlap extensively on symptoms, neurobiology and genetics. Our collaborative group (called B-SNIP) developed a psychosis classification scheme (which we called Biotypes) using biological measures that was superior to DSM diagnoses for capturing neurobiological similarities and differences. In this project, we will extend this work to refine our neurobiological Biotype definitions, and characterize unique molecular and genetic features of the Biotypes.  
Status: approved for funding at Council – awaiting NGA.

1R01DA038807. (PI's Pearlson/Stevens). Neuroscience of Marijuana-Impaired Driving.  
This proposal will assess driving abilities following marijuana intoxication, using medium and high-potency smoked marijuana, compared to placebo in a double-blind design that measures driving-related cognitive abilities, driving performance in a realistic simulator, and virtual driving plus other relevant cognitive tasks in an fMRI scanner. All three types of measures are assessed repeatedly over several hours following intoxication to assess longitudinal progression of impairment.  
Status: scored at 3<sup>rd</sup> percentile, Council review May 2015, recommended for funding.

1R01MH105879. (PI: Pearlson/Stevens). Affective Instability: a Cross-Cutting Biological Brain Measure.  
This proposal will assess the neuroscientific underpinnings of affective instability, across a variety of psychiatric disorders, including ADHD, bipolar, borderline and depressive individuals, in an RDoC-based approach that includes various novel functional MRI tasks, psychophysiological, self-report and genetic assessments. Status – scored, resubmitted, awaiting IRG review, 10-2015.

1R01MH107044. (PI Pearlson/Stevens). Neural and Genetic Correlates of Impulsivity.  
This proposal will assess the correlates at a brain-circuit level of 2 replicable constructs that parse distinct, important aspects of impulsive behavior in a large college-student population, and relate these two behaviors in a population of adolescent pathological gamblers. Status – scored, resubmitted, awaiting IRG review, 10-2015.

### **Recently Completed Research**

C0RR028654-01 (Project Liason- Pearlson) 01/29/10 - 01/28/13  
NCRR \$2,700,000  
Olin Research Center: Addition for New MRI Scanner and Research Staff  
Construct and /or renovate the following facilities on the Institute of Living Campus at Hartford Hospital:  
1. To construct a new 1500 – 2000 square foot building addition (Magnet Addition) to house a new 3T Siemens Skyra wide-bore, fast MRI scanner at the North end of the existing White Hall Building  
2. To construct a new 6700 square foot, two story research facility (Research Staff Addition) at the location of the existing Huntington Building, to accommodate scanner-related research staff and testing, exam and sample processing rooms for subjects who participate in MRI research.

R01AA016599 (Pearlson) 09/30/08 – 08/31/14  
NIAAA  
Alcohol Use in College Students: Cognition and fMRI (BARCS study)  
US college students are at high risk for problem drinking. This project will recruit and test cognitively 2000 first-year students from local colleges in Connecticut, fMRI scan a representative sub-sample and assess alcohol and drug use by web-based reporting over 2 years, when all students will be retested/rescanned.

Findings from this study will provide important insights on risk factors for problem drinking and how alcohol use impacts the developing adolescent brain.

R01 MH077945 (Pearlson) 9/29/07 - 5/31/13

NIMH

Bipolar & Schizophrenia Consortium for Parsing Endophenotypes (BSNIP-1 study)

The major goals of this multi-site collaboration will enroll 3000 patients with schizophrenia, psychotic bipolar illness and their unaffected siblings, to assess multiple imaging physiologic and cognitive endophenotypes and examine specificity.

01EB005846 (Calhoun) 8/1/05 - 5/30/13

NIH/NIBIB

Informed Data-Driven Fusion of Behavior, Brain Function, and Genes

To develop data fusion approaches for fMRI, EEG, behavior and whole genome SNP array & CNV data.

R01MH080956-01 (Stevens) 04/01/08 - 03/31/13

NIMH

Characterizing Two Distinct ADHD Neurobiologies with fMRI

This study uses functional imaging, genetic analysis, and neuropsychological assessment to examine whether there are two separate profiles of neurobiological impairment underlying impulsive behavior in ADHD.

5 R37 MH43775 (Pearlson) 08/01/09 - 05/31/14

NIMH

Quantitative Neuroimaging in Psychosis MERIT Award

The major goals of this project are to investigate circuit-wide abnormalities in schizophrenia using functional and structural brain MRI in schizophrenia and healthy controls.

(Pearlson) 06/01/12 - 05/31/14

Competitive Supplement to above grant.

R01 MH081969 (Stevens) 07/01/08 - 06/30/13

NIMH

Adolescent Maturation of Brain Network Integration for Executive Control Abilities

A study using fMRI analyses of neural network connectivity and neuropsychological assessment to examine the neural substrates of three domains of 'executive' cognitive abilities and to track their development across early adolescent to early adult maturation in healthy persons.

R01 MH082022 (Woods) 09/01/08 – 08/31/13

NIMH

8/8 Predictors and Mechanisms of Conversion to Psychosis

The major goals of this project are to identify predictors and mechanisms of conversion to psychosis in a new sample of adolescents.

R03 DA027893 (Anderson) 3/1/11 – 2/29/13

NIDA

Simulated Driving Under the Influence of Marijuana: an fMRI Study

The major goals of this project uses a psycho-pharmacologic repeated measures fMRI design to identify brain circuits used in driving that re most affected by marijuana in a dose-dependent manner and are related to intoxicated driving. Role: Investigator

R01HL098085 (Parker) 3/1/10 – 2/28/14

NHLBI

The Effect of High-Dose Atorvastatin on Neuronal Activity and cognition in Humans

The major goal of this study is to investigate the effects of atorvastatin therapy on neuronal activation and cognition in healthy adults. Role: Investigator

R01DA027615-03S1 (Petry/Pearlson)

09/01/11-08/31/13

NIH/NIDA

Reinforcing Exercise in Cocaine Abusers (Exercise and Cognition Supplement)

The purpose of this study is to examine the association between exercise and cognitive functioning.

Role: Investigator

**PENDING**

1R01AA021711 (PI: Pearlson)

12/01/2015 – 11/30/2019

**PARTICIPATION: NATIONAL/INTERNATIONAL CONSORTIA** BSNIP, ENIGMA

**BIBLIOGRAPHY**

**H.index= 78. Most cited paper: Calhoun et al HBM 2001 >1000 citations**

1. Slavney PR, Rich G, **Pearlson GD**, and Mchugh PR. Phencyclidine abuse and symptomatic mania. Biological Psychiatry, 12: 697-700, 1977
2. Wilkinson PW, Parkin JM, Strong M, **Pearlson GD**, Sykes P. Energy intake and physical activity in obese children. British Medical Journal, 756-758, March 19, 1977.
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