

Curriculum vitae

LAURA JEAN BIERUT, M.D.

Date: February 20, 2017

Present Position:

Alumni Endowed Professor of Psychiatry

Address and Telephone Numbers:

Work: Department of Psychiatry
Washington University School of Medicine
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St. Louis, MO 63110
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Citizenship:

USA

Education and Training:

Undergraduate

1979-1982 Bachelor of Arts, Harvard University, Cambridge, MA
Graduated Cum Laude with Honors in Biochemistry and Molecular Biology

1982-1983 Jagiellonian University, Krakow, Poland
Honors: Kosciuszko Foundation Cultural Exchange Scholarship

Graduate

1983-1987 MD, Washington University Medical School
St. Louis, MO

Post Graduate

1987-1991 Resident in Psychiatry, Washington University School of Medicine
St. Louis, MO

1990-1991 Post Doctoral Research Fellowship, International Brain Organization
Karolinska Institute, Stockholm Sweden

Academic Positions:

1991 – 1993 Acting Assistant Professor
University of Washington, Seattle, WA

1994 – 1996 Postdoctoral Fellow/Instructor
Washington University School of Medicine, St. Louis, MO

1996 – 2002 Assistant Professor of Psychiatry
Washington University School of Medicine, St. Louis, MO

2002 – 2007 Associate Professor of Psychiatry
Washington University School of Medicine, St. Louis, MO

2007 – 2009 Professor of Psychiatry

Washington University School of Medicine, St. Louis, MO

- 2009 – 2013 Adjunct Professor
The University of Texas MD Anderson Cancer Center
- 2014 – present Alumni Endowed Professor of Psychiatry
Washington University School of Medicine, St. Louis, MO
- 2014 – present Co-Leader, Prevention & Control Program, Alvin J. Siteman Cancer
Center, Barnes Jewish Hospital and Washington University School of
Medicine, St. Louis, MO
- 2016 – present Vice Chair for Faculty Development in the Department of Psychiatry

National Committees and Responsibilities:

- 2011 - 2013 Chairperson, NIH Behavioral Genetics and Epidemiology Study Section
- 2013 – present Member, National Institute of Drug Abuse Advisory Council
- 2014 – present Member, National Comprehensive Cancer Network Smoking Cessation
Panel
- 2015 – 2017 Member, Multi-Council Working Group for NIH Big Data to Knowledge
(BD2K)
- 2017 - present Member, U.S. Food and Drug Administration Tobacco Products
Scientific Advisory Committee

University and Hospital Appointments and Committees:

- 1994 – 2002 Psychiatry Resident Educational Committee
(Overview committee of the psychiatry residency curriculum)
- 1996 – 1997 Medical School Admissions Committee
- 1996 – 2007 Curriculum Evaluation Committee II
(Overview committee of 2nd year medical school curriculum)
- 1997 – 1999 Liaison Committee on Medical Education
(Committee to prepare the medical school for accreditation)
- 1999 – 2002 Doctoring Workgroup
(Active committee undertaking major curricular reform in medical
student education)
- 2000 – 2015 Committee of Academic Evaluation of Students
(Review of medical student's performance)
- 2002 – 2014 Human Subjects Committee ad hoc
- 2005 – 2007 Liaison Committee on Medical Education
(Committee to prepare the medical school for accreditation)
- 2008 – present Disclosure Review Committee
- 2009 – present KL2 Selection Committee
(Review grant applications submitted to Washington University)
- 2009 – 2015 Medical Center Alumni Association Executive Council
(2012-Council President)

Consultant:

- 2004 Center on Anti-social Drug Dependence Scientific Advisory Board,
University of Colorado
- 2004 - 2008 Phenotypes in Drug Dependence Advisory Board, Columbia University
- 2008 Varenicline Pharmacogenomics Advisory Committee, Pfizer

Medical Licensure and Board Certification:

License, State of Washington, 1991 (not active)
License, State of Missouri, 1994 (#104784)
Lifetime Board Certification in Psychiatry, 1993

Honors and Awards:

Sidney I. Schwab Prize in Psychiatry
Washington University Book Award
International Brain Research Organization Award
Tenth Annual Nancy C.A. Roeske, M.D., Certificate of Recognition for Excellence in Medical Student Education awarded by the American Psychiatric Association, 1999/2000
Distinguished Teaching Award voted by students for work as course master of Diseases of the Nervous System: Psychiatry, 1997
Washington University Alumni Award, 2007
The Best Doctors in America (Psychiatry), 2009-2014
Washington University Founders Day Award, 2009
Alpha Omega Alpha Honor Medical Society, 2010
Academic Women's Network Mentor Award, 2012
WUSM Distinguished Educator Postdoctoral Research Mentoring Award, 2012
Alumni Endowed Professorship in Psychiatry, 2014
Alton Oshner Award Relating Smoking and Disease, 2014
Vice Chair for Faculty Development in the Department of Psychiatry, 2016
Tobacco Products Scientific Advisory Committee of the Food & Drug Administration

Editorial Responsibilities:

Alcohol Research & Health: Editorial Advisory Board 2006-2008

Reviewer:

Addiction
Addiction Biology
Alcoholism: Clinical and Experimental Research
American Journal of Medical Genetics: Neuropsychiatric Genetics
American Journal of Human Genetics
American Journal of Public Health
Drug and Alcohol Dependence
JAMA Psychiatry (formerly Archives of General Psychiatry)
Journal of Studies on Alcohol and Drugs
Molecular Psychiatry
PLoS Genetics

Grant Reviewer:

2012 – 2014 Chairperson of the Behavioral Genetics and Epidemiology Study Section – NIH
2008 – 2012 Behavioral Genetics and Epidemiology Study Section – NIH
Ad hoc Reviewer Veterans Administration Merit Application
Ad hoc Reviewer Special Emphasis Panel for Specialized Centers of Research NIH-NIAMS
Ad hoc Reviewer NIH – Genetics of Health and Disease

Professional Societies and Organizations:

National and International:
American Association for Cancer Research

American Medical Association
American Association for the Advancement of Science
American Public Health Association
American Psychiatric Association
American Society of Addiction Medicine
American Society of Health Economics
American Society of Human Genetics
American Thoracic Society
College on Problems of Drug Dependence
International Society of Psychiatric Genetics
Research Society on Alcoholism
Society for Neuroscience
Society for Research on Nicotine and Tobacco
Scientific Committee for the 2016 ISBRA/ESBRA World Congress

State of Missouri:

Eastern Missouri Psychiatric Association
Missouri State Medical Association

St. Louis:

The Harvard Club of St. Louis

Washington University:

KL2 Scholar's Program Committee
Academic Women's Network
Division of Biology and Biomedical Sciences in the Human & Statistical Genetics Program
Institute of Clinical and Translational Sciences
Institute for Public Health Faculty Advisory Council

Major Invited Lectureships:

Familial transmission of alcoholism and depression. Fourth World Congress on Psychiatric Genetics in Cardiff, UK: October 1995.

Alcoholism and comorbid substance dependence: Are men and women different? Findings from the COGA Study. Research Society on Alcoholism and International Society for Biomedical Research on Alcoholism International Scientific meeting in Washington, DC: June 1996.

Genetic Analysis of Complex Traits. Symposium organizer and chair: Research Society on Alcoholism. Santa Barbara, CA: June 1999.

Extending the Linkage Paradigm: Bivariate Genetic Analysis of Complex Phenotypes. Research Society on Alcoholism. Santa Barbara, CA: June 1999.

Smoking Behavior and Alcohol Use in High Risk Children. Research Society on Alcoholism, Denver, Colorado: June 2000.

The Familial Aggregation of Alcohol Dependence, Habitual Smoking and Major Depression Disorder in the Collaborative Study of the Genetics of Alcoholism. Eighth World Congress on Psychiatric Genetics in Versailles, France: September 2000.

Common and Specific Factors in the Familial Transmission of Substance Dependence. Plenary Session: Eighth World Congress on Psychiatric Genetics. Versailles, Franc: September 2000.

Genetic Contributions to the Development of Depression. Are There Gender Differences? Summit on Women and Depression: American Psychological Association. Wye River Conference Center: October 2000

The Relationship Between Genotype and Phenotype: Alcohol Dependence. Neurogenomics: Building a Better Brain. Vanderbilt Conference on Genomics: May 2001

Discovering Genes for Alcohol Dependence in the Human Genome Project Era: A Report from COGA. Symposium organizer and chair: Research Society on Alcoholism, Montreal Canada: June 2001.

Specification of Phenotypes by Molecular Analysis. Research Society on Alcoholism, Montreal Canada: June 2001.

Neurogenetic Mechanisms in Substance Dependence. ACNP Annual Meeting. Waikoloa, Hawaii: December 2001.

Women and Depression: Future Research, Clinical Practice and Public Policy. American Psychological Association Women's Health Conference, Washington, DC: February 2002.

The Familial Transmission of Habitual Smoking in Alcohol Dependent Families: Differences Between Caucasian and African American Families. Society for Research on Nicotine and Tobacco, New Orleans, LA: February 2002.

Alcohol and Cocaine Dependence: Similarities and Differences. Grand Rounds, University of Connecticut: March 2003.

Linkage Studies of Substance Dependence. College on Problems of Drug Dependence, Bal Harbor, Florida: June 2003.

Family Cluster of Substance Dependence: Differences between Caucasian and African-American Families, Behavior Genetics Association, Chicago, Illinois: June 2003.

Overlap of Genetic Findings: Alcohol and Substance Dependence. World Congress of Psychiatric Genetics, Quebec City, Canada: October 2003.

At Risk Families: The Impact of Alcoholism. American Psychological Society, Chicago, Illinois: May 2004.

Common and Specific Genetic Factors in the Development of Substance Dependence. American Psychiatric Association, New York, NY: May 2004.

Introduction to the COGA Data. Genetics Analysis Workshop, Noordwijkerhout, The Netherlands: September, 2004.

The Clinical Use of Dimensional Criteria – Examples from Other Clinical Disciplines. Research Society on Alcoholism, Santa Barbara, California: June, 2005.

An Approach to Identifying Candidate Genes in Behavioral Genetics. American Association for Cancer Research, Washington, DC: April, 2006.

Rethinking Alcohol Use Disorders: Science, Diagnosis, Treatment and Policy. American Psychiatric Association, Toronto, Canada: May, 2006.

Genome Wide Association Study for Nicotine Addiction. NIDA Consortium Meeting, Bethesda, Maryland: June, 2006.

Collaborative Genetic Study of Nicotine Dependence. NIDA Consortium Meeting, Bethesda, Maryland: June, 2006.

Genes Associated With the Development of Alcoholism. Research Society on Alcoholism, Baltimore, Maryland: June, 2006.

Genome Wide Association Study for Nicotine Addiction. PNAT Advisory Committee Meeting, San Francisco, California: August, 2006.

Genetic Risks for Alcohol Dependence and Smoking. NIDA Blending Conference, Seattle, Washington: October, 2006.

Genetics of Nicotine Dependence – Genome Wide Association and Candidate Gene Studies. XIV World Congress on Psychiatric Genetics, Sardinia, Italy: November, 2006.

A Major Public Health Problem with Genetic Underpinnings. Grand Rounds Forum, Indianapolis, Indiana: February, 2007

Genome Wide Association and Candidate Gene Studies of Nicotine Dependence. TTURC Seminar Series, Philadelphia, PA: April, 2007

Genome Wide Association and Candidate Gene Studies of Nicotine Dependence. Lyon-Voorhees Lecture, Denver, Colorado: May, 2007.

Genome Wide Association and Candidate Gene Study for Nicotine Dependence: Converging Results and New Leads. XV World Congress on Psychiatric Genetics, New York, New York: October, 2007

New Advances in the Science of Tobacco Addiction. National Conference on Tobacco or Health, Minneapolis, MN: October, 2007

Smoking – A Major Public Health Problem with a Genetic Underpinning. Women's Health Luncheon, St. Louis, MO: November, 2007

Lessons Learned from a Genome Wide Association Study. Fogarty Workshop, Bangalore, India: February, 2008.

Defining the Role of Nicotinic Receptors in the Development of Nicotine Dependence. Society for Research on Nicotine and Tobacco, Portland, Oregon: March, 2008.

Genome-Wide Association Studies: Phenotype and Genotype Studies. Short Course on the Genetics and Epigenetics of Addiction. NIDA Meeting, Bethesda, MD: April 2008.

Genetics of Smoking Among Women. CPDD Mini Conference, Annapolis, MD: April, 2008.

Genetics of Alcoholism. Research Society on Alcoholism, Washington, DC: June, 2008.

Study of Addiction: Genetics and Environment. Gene Environment Association Studies, Washington, DC: August, 2008.

Genetics of Addiction: Molecular Biology of Alcohol Dependence. World Congress on Psychiatric Genetics, Osaka, Japan: October, 2008.

Genetics of Smoking and Lung Cancer. Cancer Prevention Grand Rounds @UT M.D. Anderson Cancer Center, Houston, TX: October, 2008.

Genetics of Addiction – New Opportunities. NIDA Workforce Development and Collaboration in Addiction Genetics, Philadelphia, PA: November, 2008.

The Culture of Sharing Genetic Data: Implications for Social Science Data. NIDA Crossroads: Sharing Social Environment and Genetic Data, Washington, DC: November, 2008.

Genome-Wide Association Studies of Drug Addiction. Genetics Research Seminar Series, Rutgers, The State University of New Jersey: March, 2009.

Genome-Wide Association Scans and Candidate Genes in Nicotine Addiction. ASPET Symposium, New Orleans, LA: April, 2009.

Genetics of Nicotine Dependence and Smoking Behaviors: The Smoke Clears. AACR Meeting, Denver, CO: April, 2009.

Genetics and Health: What Do We See as the Future? Institute for Public Health Genetics and Population Health Mini Symposium, Saint Louis, MO: May, 2009.

Human Genetics of Nicotine Dependence. Cold Spring Harbor Laboratory Banbury Seminar, Cold Spring Harbor, NY: August, 2009.

Smoking, Alcohol, and Drugs: Studies of Genetics, Legal Drinking Age, and Other High Risk Behaviors. Academic Presentation at Washington University Management Team Meeting, Saint Louis, MO: September, 2009.

Convergence of Genetic Findings for Nicotine Dependence, Lung Cancer and COPD. Grand Rounds Presentation at Washington University, November, 2009.

Improving Treatment Outcomes Using a Personalized Medicine Approach: Examples from Nicotine Dependence Treatment. ACNP Meeting, Hollywood, Florida: December, 2009.

Challenges and Lesson in Collaboration and Data Harmonization. Pre-conference Workshop to Society for Research on Nicotine and Tobacco Meeting, Baltimore, MD: February 2010.

Genetics of Nicotine Dependence. German Society of Human Genetics Meeting, Hamburg, Germany: March, 2010.

Clinical Implications of Research on Genetics of Drug Addictions. American Society of Addiction Medicine Meeting. San Francisco, CA: April, 2010.

The CHRNA5-A3 Region on Chromosome 15q24-25. American Thoracic Society International Conference. New Orleans, LA: May, 2010.

Genetics of Nicotine Dependence and the Convergence with Lung Cancer and Chronic Obstructive Pulmonary Disease. CPDD Presidential Symposium. Scottsdale, AZ: June, 2010.

Meta-analysis of genome-wide association studies of alcohol dependence. World Congress on Psychiatric Genetics, Athens, Greece: October, 2010.

Human genetic studies of the nicotinic receptors and the relationship with addiction and psychiatric illness. Symposium at International Congress for Schizophrenia Research. Colorado Springs, CO: April 2011.

Addiction – Insights from Genetic Studies. Annual Meeting of the College on Problems of Drug Dependence Satellite “NIDA: Fundamental Genetics in Drug Abuse and Addiction”. Hollywood, FL: June 2011.

Genetic Contributions to Nicotine Dependence and Lung Cancer. 14th World Conference on Lung Cancer. Amsterdam, The Netherlands: July, 2011.

Genetics of nicotine addiction. NIDA/NIAAA Satellite Symposium at the World Congress on Psychiatric Genetics. Washington, DC: September, 2011.

Opportunities for Study of Gene-environment in Cancer. NCI Gene Environment Think Tank. Bethesda, MD: January 2012.

Smoking Cessation: Interplay of Genes and Treatments. SRNT Meeting. Houston, Texas: March 2012.

Genetics of Addiction - What the Future Brings. USC School of Medicine Grand Rounds. Pasadena, California: April 2012.

Smoking Cessation. International Lung Cancer Consortium: TRICL Meeting. Milan, Italy: May 2012.

The Interplay of Environment and Genes in Smoking Behaviors: Keystone Lecture. Raleigh-Durham, NC: January 2013.

Bench to Bedside: Translation of Basic, Pre-clinical and -omics-based Discovery to Prevention and Treatment of Smoking and Smoking Related Disease: SRNT Symposium. Boston, MA: March 2013.

Ch15 and Smoking Cessation: ILCCO Meeting. New York, NY: May, 2013

Nicotine Dependence and Other Substances: NIDA Genetics Consortium Meeting. Rockville, MD: May, 2013.

T3 Research – Using Genomic and Behavioral Techniques to Enhance Outcomes in Substance Abuse and Addiction: National Council Meeting. Saint Louis, MO: May 2013.

Translation of Genetic Findings for Tobacco Use Into Clinical Care: INSERM Conference. Paris, France: June, 2013.

Return of Results in Genetics: Integration with Clinical Care: World Congress of Psychiatric Genetics. Boston, MA: October, 2013.

Curtailling Smoking Addiction: Ongoing Challenges: Thoracic Oncology Meeting. New York, NY: November, 2013.

Gaps in Genomics: SRNT Meeting. Seattle, Washington: February, 2014.

How Genetic Risk for Nicotine Dependence Translates into Successful Smoking Cessation: IBANGS Meeting. Chicago, IL: May, 2014.

Common, low frequency, and rare coding variants in CHRNA5 contribute to nicotine dependence in European and African Ancestry Populations: SRNT Europe Meeting. Santiago de Compostela, Spain: September, 2014.

Curtailling Smoking Addiction: How Do We “slay the deadly beast?”: Perspectives in Thoracic Oncology Meeting. New York, NY, November, 2014.

Human Addiction Genetics: The Jackson Laboratory Short Course on the Genetics of Addiction Meeting. Bar Harbor, ME, August, 2015.

Genetics of Addiction from Model Organisms to Human, from Base Pairs to Behavior: American Society of Human Genetics Meeting. Baltimore, Maryland, October, 2015.

The Role of CHRNA5 in Nicotine Dependence, Smoking Cessation and Lung Cancer. World Congress of Psychiatric Genetics: October, 2015.

Slaying the dragon – How to improve smoking cessation. 27th Annual Cancer Symposium. Cape Girardeau, Missouri: November 2015.

Curtailling Smoking Addiction: How Do We “slay the deadly beast?”: Perspectives in Thoracic Oncology Meeting. New York, NY, November, 2015.

Biomarkers of Addiction. 3rd Inserm-NIDA-NIAA Workshop. Paris, France, November, 2015.

New Issues in Understanding & Addressing Tobacco Use & Mental Illness symposium. Atlanta, Georgia, May, 2016.

Genetics of Addiction. Bar Harbor, ME, September, 2016.

Active Research:

9/29/89 – 8/31/19 NIAAA U10 AA08401
Collaborative Study on the Genetics of Alcoholism (COGA)
Co-National Principal Investigator: **Laura Bierut, M.D.**

Washington University Principal Investigator: **Laura Bierut, M.D.**
Current Year Total Costs WU: \$1,162,460
Total WU costs for past 5 years: \$8,141,741

4/1/14 – 3/31/18 NIDA R01 DA036583
Nicotine Dependence to Smoking Cessation: Sequencing Common and Rare Variants.
Principal Investigator: **Laura Bierut, M.D.**
Current Year Total Costs: \$741,579

9/30/14-7/31/19 NIDA R01 DA038076
Genetically Informed Smoking Cessation Trial
Principal Investigator: Li-Shiun Chen, M.D.
Role: Co-Investigator

9/1/14-8/31/17 NIDA R01 DA039455
Implications of Social Media Content and Engagement for Alcohol and Marijuana Use
Principal Investigator: Patricia Cavazos-Rehg, Ph.D.
Role: Co-Investigator

8/2/01-6/30/20 NCI P30 CA091842
Cancer Center Support Grant
Principal Investigator: Timothy Eberlein, M.D.
Role: Co-Leader, Prevention and Control Program

7/1/03 – 5/31/18 NIMH U24 MH68457
NIMH Center for Collaborative Genetic Studies – Data Analysis Core
Principal Investigator: John Rice, Ph.D.
Role: Co-Investigator

12/1/16 – 11/30/19 NIDA R01 DA042195
Smoking, Suicide and Mental Health: Using Policy Change to Probe Casuality.
Principal Investigator: Richard Grucza, M.D.
Role: Co-Investigator

7/1/13 – 6/30/17 NIDA R01 DA035825
Utilizing Interaction to Identify Novel Genetic Factors for Nicotine Dependence
Principal Investigator: Dana Hancock, Ph.D.
PI of Subcontract: **Laura Bierut, M.D.**
Current Year Total Costs WU: \$169,970

7/15/14-6/30/19 NIDA R01 DA038632
Enhancing Discovery of HIV Host Genetics Using Drug Abuse and Other Interactions
Principal Investigator: Eric Johnson, Ph.D.
PI of Subcontract: **Laura Bierut, M.D.**
Current Year Total Costs WU: \$16,697

8/16/16-5/31/21 R01 DA042090
Integrating Epigenomics in Human Brain and Genomics of Nicotine Dependence

Principal Investigator: Dan Hancock, Ph.D.
PI of Subcontract: **Laura Bierut, M.D.**
Current Year Total Costs WU: \$

Other Research Support:

- 10/04 NIDA
Genome Wide Association of Nicotine Dependence (NICSNP)
Principal Investigator: **Laura Bierut, M.D.**
Support for a large scale genome wide association study in collaboration with Perlegen Sciences.
NIDA Support: \$2,200,000
- 2/05 Center for Inherited Disease Research
Case Control Candidate Gene Study of Addiction
Principal Investigator: **Laura Bierut, M.D.**
Support for genotyping 1108 samples with 1536 SNPs
- 10/06 Center for Inherited Disease Research
Fine Mapping of Genes Associated With Nicotine Dependence
Principal Investigator: **Laura Bierut, M.D.**
Support for genotyping 1929 samples with 1536 SNPs
- 1/07 Center for Inherited Disease Research
A Replication Study for a Genome Wide Association Study of Nicotine Dependence
Principal Investigator: **Laura Bierut, M.D.**
Support for genotyping 3000 samples with 1536 SNPs
- 3/10 Center for Inherited Disease Research X01 HG005274
The Genetic Architecture of Smoking and Smoking Cessation
Principal Investigator: **Laura Bierut, M.D.**
Support for genotyping 3,499 samples for 2.5 million SNPs
- 4/11 Center for Inherited Disease Research X01 HG006629
Sequencing and Analysis of Targeted Genetic Regions Associated with Smoking
Principal Investigator: **Laura Bierut, M.D.**
Support for custom targeted sequencing on 3,000 samples

Completed Research as Principal Investigator or Subcontract Principal Investigator:

- 4/15/09 – 2/28/15 NIDA R01 DA025888
Genetics Study of Nicotine Dependence in African Americans
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$4,689,347
- 9/1/09 – 8/31/14 NIDA R21/R33 DA027486
Genome-wide Association Study of Heroin Abuse: a Multiethnic Study
Principal Investigator: Eric Johnson, Ph.D.
PI of Subcontract: **Laura Bierut, M.D.**
Total Costs of Subcontract: \$323,558

8/1/09 – 7/31/14 NIH/NIDA R01DA026911
Human Genetic Variation in Smoking and Addiction Risk
Co- Investigator: **Laura Bierut, MD**

12/01/00 – 6/30/14 NCI P01 CA089392
The Collaborative Genetic Study of Nicotine Dependence
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$16,701,932

9/15/08 – 6/30/14 NIDA R01 DA026141
Genome-wide Association Study of HIV-1 Host Genetics among Injection Drug
Users
Principal Investigator: Eric Johnson, Ph.D.
PI of Subcontract: **Laura Bierut, M.D.**,
Total Costs of Subcontract: \$273,442

7/9/10- 6/30/14 NCI U19 CA148127
Transdisciplinary Research in Cancer of the Lung
Principal Investigator: Chris Amos, Ph.D.
PI of Subcontract: **Laura Bierut, M.D.**
Total Costs of Subcontract: \$108,803

7/25/07 – 6/30/12 NIDA K02 DA021237
Human Genetics of Addiction: A Study of Common and Specific Factors
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$566,975

8/6/07 – 5/31/12 NHGRI U01 HG004422
Study of Addiction: Genetics and Environment
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$1,150,413

5/1/07 – 2/28/12 NIDA R01 DA19963
Case Control Candidate Gene Study of Addiction
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$1,194,622

1/1/06 – 12/31/07 Washington University Center for Genome Sciences
Sequence Variants in the Muscarinic Acetylcholine Receptor M2 (CHRM2)
Gene and Their Effect on Risk for Alcohol Dependence and Major Depression
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$50,000

7/1/06 – 6/30/07 Siteman Cancer Center
Genetic Factors in Nicotine Dependence in an African American Population
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$40,000

7/1/06 – 6/30/07 Barnes-Jewish Hospital Foundation
Collaborative Study on the Genetics of Alcoholism

Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$24,512

9/1/00 – 6/30/06 NIDA R01 DA013423
Family Study of Cocaine Dependence
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$2,227,789

9/30/99 – 7/31/05 NIAAA R01 AA012557
Novel Phenotypes for the Genetic Analysis of Alcoholism
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$1,390,300

12/1/96 – 11/30/01 NIAAA K08/K23 AA000231
Genetics of Alcoholism and Depression
Principal Investigator: **Laura Bierut, M.D.**
Total Costs: \$725,150

Clinical Title and Responsibilities:

1994 – 2002 Co-Director of the Outpatient Psychiatry Clinic: Administer the 3rd year psychiatric resident outpatient clinic at Barnes Jewish Hospital

2002 – 2004 Director, Outpatient Psychiatry Clinic, Barnes-Jewish Hospital

2004 –present Attending, Outpatient Psychiatry Clinic, Barnes-Jewish Hospital

Teaching Title and Responsibilities:

1998 – 2004 Director of Pre-clinical Medical Student Curriculum in Psychiatry

1998 – 2004 Course master & Major Lecturer: “Diseases of the Nervous System – Psychiatry” – 2nd Year Medical Students

1998 – present Lecturer: “Diseases of the Nervous System - Psychiatry” - 2nd Year Medical Students

1994 – 2004 Curriculum for Outpatient Psychiatry Residents: Attending psychiatry residency outpatient rotation. (12-month full time rotation in psychiatry clinic)

2004 –present Lecturer: “Neuroscience Clinical Lecture: Addiction”-1st Year Medical Students

BIBLIOGRAPHY (Peer-reviewed):

1. Little PF, Treisman R, **Bierut LJ**, Seed B, Maniatis T. Plasmid vectors for the rapid isolation and transcriptional analysis of human beta-globin alleles. Molecular Biology and Medicine 1:473-488, 1983. PMID: 6094959.

2. Khan A, Mirolo MH, Lai H, Claypoole K, **Bierut L**, Malik R, Bhang J. ECT and TRH: Cholinergic involvement in a cognitive deficit state. Psychopharmacology Bulletin 29(3):345-352, 1993. PMID: 8121962.
3. Khan A, Mirolo MH, Hughes D, **Bierut L**. Electroconvulsive therapy. Psychiatric Clinics of North America 16:497-513, 1993. PMID: 8515234.
4. Barr CL, Kennedy JL, Pakstis AJ, Wetterberg L, Sjogren B, **Bierut L**, Wadelius C, Wahlstrom J, Martinsson T, Giuffra L, Gelernter J, Hallmayer J, Moises HW, Kurth J, Cavalli-Sforza LL, Kidd KK. Progress in a genome scan for linkage in schizophrenia in a large Swedish kindred. American Journal of Medical Genetics (Neuropsychiatric Genetics) 54(1):51-58, 1994. PMID: 7909991.
5. Rice JP, Goate A, Williams JT, **Bierut L**, Dorr D, Wu W, Shears S, Simpson S, Gopalakrishnan G, Edenberg HJ, Foroud T, Nurnberger J Jr, Gershon ES, Detera-Wadleigh SD, Goldin LR, Guroff JJ, McMahon FJ, Simpson S, MacKinnon D, McInnis M, Stine OC, DePaulo JR, Blehar MC, Reich T. Initial genome scan of the NIMH Genetics Initiative bipolar pedigrees: Chromosomes 1, 6, 8, 10 and 12. American Journal of Medical Genetics (Neuropsychiatric Genetics) 74(3):247-253, 1997. PMID: 9184306.
6. Nurnberger JI Jr, DePaulo JR, Gershon ES, Reich T, Blehar MC, Edenberg HJ, Foroud T, Miller M, Bowman E, Mayeda A, Rau NL, Smiley C, Conneally PM, McMahon F, Meyers D, Simpson S, McInnis M, Stine OC, Detera-Wadleigh S, Goldin L, Guroff J, Maxwell E, Kazuba D, Gejman PV, Badner J, Sanders A, Rice J, **Bierut L**, Goate A. Genomic survey of bipolar illness in the NIMH Genetics Initiative pedigrees: A preliminary report. American Journal of Medical Genetics (Neuropsychiatric Genetics) 74:227-237, 1997. PMID: 9184304.
7. Madden PA, Bucholz KK, Dinwiddie SH, Slutske WS, **Bierut LJ**, Statham DJ, Dunne MP, Martin NG, Heath AC. Research Report. Nicotine withdrawal in women. Addiction 92(7):889-902, 1997. PMID: 9293047.
8. Heath AC, Bucholz KK, Madden PA, Dinwiddie SH, Slutske WS, **Bierut LJ**, Statham DJ, Dunne MP, Whitfield JB, Martin NG. Genetic and environmental contributions to alcohol dependence risk in a national twin sample: consistency of findings in women and men. Psychological Medicine 27(6):1381-1396, 1997. PMID: 9403910.
9. **Bierut LJ**, Dinwiddie SH, Begleiter H, Crowe RR, Hesselbrock V, Nurnberger JI Jr, Porjesz B, Schuckit MA, Reich T. Familial transmission of substance dependence: alcohol, marijuana, cocaine, and habitual smoking: a report from the Collaborative Study on the Genetics of Alcoholism. Archives of General Psychiatry, 5(11):982-988, 1998. Erratum in: Archives of General Psychiatry 59(2): 153, 2002. PMID: 9819066.
10. Statham DJ, Heath AC, Madden PA, Bucholz KK, **Bierut L**, Dinwiddie SH, Slutske WS, Dunne MP, Martin NG. Suicidal behavior: An epidemiological and genetic study. Psychological Medicine 28(4):839-855, 1998. PMID: 9723140.
11. Hudziak JJ, Heath AC, Madden PA, Reich W, Bucholz KK, Slutske W, **Bierut LJ**, Neuman RJ, Todd RD. Latent class and factor analysis of DSM-IV ADHD: a twin study of female adolescents. Journal of the American Academy of Child & Adolescent Psychiatry 37(8):848-857, 1998. PMID: 9695447.

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