

Ludmila Bakhireva, MD, PhD, MPH

Professor (with tenure)

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EDUCATION:

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
• Birmingham Children's Hospital, Department of Pediatrics, Birmingham, UK (visiting scholar)	--	1998	Pediatrics
• Omsk State Medical Academy, Russia	M.D. with distinction	1999	Medicine
• Boston University School of Public Health, Boston, MA	M.P.H.	2001	Public Health
• University of California, San Diego /San Diego State University, CA	Ph.D.	2007	Public Health (Epidemiology)
• Harvard University, Cambridge, MA	--	2017	Negotiation & Leadership

POSITIONS AND EMPLOYMENT:

2007-present	Assistant Professor (2007-2012), Associate Professor with tenure (2012-2018), Professor (2018-present) College of Pharmacy (primary appointment) and Department of Family and Community Medicine, School of Medicine and Division of Epidemiology & Biostatistics, Department of Internal Medicine University of New Mexico, Albuquerque, NM
2008- 2012	Adjunct scientist, Lovelace Clinic Foundation
2003-2007	Research Associate-II/Epidemiologist, Division of Dysmorphology and Teratology, Department of Pediatrics, University of California, San Diego, CA
2003-2004	Lecturer, Department of Epidemiology and Biostatistics, Graduate School of Public Health, San Diego State University, CA
2001-2003	Teaching Associate, Graduate School of Public Health, San Diego State University, CA
2001-2004	Research Specialist/Data Analyst, Naval Health Research Center, San Diego, CA
2000-2001	Research Associate, Boston University School of Public Health, Boston, MA

HONORS AND AWARDS:

2017	University of New Mexico College of Pharmacy <i>William M. Hadley Distinguished Scholar Award</i>
2015	University of New Mexico Faculty <i>Research Excellence Award in Population Science</i>
2011	University of New Mexico <i>Regents' Lecturer award</i>
2011	Teratology Society <i>F. Clarke Fraser New Investigator Award</i>

- 2006 Awarded participation in the Second Annual NICHD-IHDCYH Summer Institute in Reproductive and Perinatology, National Institute of Child Health & Human Development, NIH
- 2004 *New Investigator Award*, North American Menopause Association
- 2004 San Diego Epidemiology Exchange Presentation Award, San Diego, CA

TEACHING:

Note: At UNM College of Pharmacy the term "Instructor of Record" is equivalent to a Course Director

Pharm D Professional Courses:

Pharm 728 (Pharmacoepidemiology & Literature Evaluation).

Role: Instructor of Record (2008-2012, 2018-present); Block coordinator (2013-2016)

Pharm 764/766 (Public Health Issues for Pharmacists); Role: Co-Instructor/ Guest lecturer

Pharm 798 (Problems in Pharmacy); Role: Instructor of Record

Pharm 718L (Pharmaceutical Care Lab III); Role: Guest lecturer

Pharm 709 (Introduction to Pharmacy Practice); Role: Guest lecturer

Pharm 828 (Pharmacoepidemiology & Research Design); Role: Instructor of Record

Graduate/Pharmacy Resident Courses:

Pharm 547 (Research Design & Methods); Role: Instructor of Record (2010-present)

Pharm 545 (Pharmacoeconomics); Role: Guest lecturer

PhPr 591 (Graduate Seminar); Role: Instructor of Record (on rotating basis) / Co-Instructor

Statistical Computing for Residents; Role: Course Director/Co-Director

Pharm 599 (Master's Thesis); Role: Instructor of Record

Pharm 597 (Research Problems in Pharmaceutical Sciences); Role: Instructor of Record

Pharm 598 (Topics in Pharmaceutical Sciences); Role: Instructor of Record

Pharm 699 (Dissertation); Role: Instructor of Record

MENTORING ACTIVITIES: (last names of mentees are underlined)

Undergraduate, pharmacy, and medical students:

Primary mentor, UNM Undergraduate Pipeline Network Summer Rotation (Amy Garcia): 2012

Chair, College of Pharmacy Summer Research Fellowship (Pree Sarangarm): 2009-2012

Preceptor, Research Rotation: (Anne Davis): March 2009

Chair, College of Pharmacy Summer Research Fellowship (Linda Gutierrez): 2010

Faculty advisor, Research rotation: (Melissa Polasek): 2012

Chair, College of Pharmacy Summer Research Fellowship: (Christine Kreitinger): 2013-2014

Primary research mentor to a medical student (Malia Ashley): 2015-2019

Primary research mentor to a medical student (Jocelyn Wu): 2017-2018

Primary research mentor to a pharmacy student (Aydan Sparks): 2019-present

Primary research mentor to a pharmacy student (Adrianna Sanchez): 2020-present

Primary research mentor to an undergraduate student (Laura Stacy): 2019-2020

Master students:

Chair, Master's Committee (Pallavi Jaiswal): 2008-2009

Chair, Master's Committee (Sizhu Liu): 2009 – 2011

Thesis Committee member (Yubin Zhao): 2011 – 2013

Chair, Master's Committee (Mahek Garg): 2011-2013 (graduated with distinction)

Chair, Master's Committee (Shikhar Shrestha): 2013-2015

Chair, Master's Committee (Adriana Bautista): 2014-2017 (supported by the NIH R15 grant; graduated with distinction)

Chair, Master's Committee (Ambroshia Murrietta): 2014-2017 (part-time student)

Chair, Master's Committee (Adam Henrie, PharmD): 2017-2018
Chair, Master's Committee (Alexa Argyres, PharmD): 2018-2020

PhD students:

Dissertation Committee member (Rupali Naik): 2008 – 2010
Primary advisor, PhD Research Rotation (Bonnie Young): 2008-2010
Dissertation Committee member (Luis Robles, MS): 2011- 2013
Member, qualifying exam committee (Melissa Roberts): 2011
Member, qualifying exam committee (Vishvas Garg): 2012
Member, qualifying exam committee (Khalid Al Moikel): 2012
Member, qualifying exam committee (Rasha Arabyat): 2014
Member, qualifying exam committee (Akshay Kharat): 2014
Member, qualifying exam committee (Yuebin Zhao): 2014
Dissertation Committee member (Akshay Kharat): 2014-2017
PhD Research Rotation (Cheng Chen): Fall, 2014
Chair, Dissertation Committee (Shikhar Shrestha); 2015 –2019, graduated with distinction

Residents, Fellows:

Co-mentor to a Maternal Fetal Medicine fellow (Dr. Matthew Brennon): 2012-2013
Co-mentor to a Maternal Fetal Medicine fellow (Dr. Steffen Brown): 2012-2014
Co-mentor to a Pharmacy resident (Dr. Joseph Llewellyn): 2013-2014
Primary mentor to a Maternal Fetal Medicine fellow (Dr. Bradley Holbrook): 2014-2017
Co-mentor to a Neonatology fellow (Dr. Asma Qamruddin): 2017-2020
Primary mentor to a Maternal Fetal Medicine fellow (Dr. Jose Perez Yordan): 2018-2020
Primary mentor to a postdoctoral fellow (Dr. Kathryn Beauchamp), College of Pharmacy, Dept of Pharmacy Practice and Administrative Sciences: 2018-2020
Research mentor to an OB/GYN resident (Malia Ashley): 2020-present
Primary mentor to a Maternal Fetal Medicine fellow (Dr. Sarah Smiley): 2019-present

Junior faculty & hospital pharmacists:

Primary mentor, Dr. Ajna Hamidovic, tenure-track Assistant Professor, UNM College of Pharmacy
Research mentor, Dr. Amy Bachyrycz, Assistant Professor (clinical educator), UNM College of Pharmacy
Primary mentor, Dr. Pree Sarangarm, Adjunct Assistant Professor, UNM College of Pharmacy; Associate Director of the UNM Pharmacy Residency program
Research mentor, Dr. Nicole Yonke, Assistant Professor, Department of Family Community Medicine, UNM
Research mentor, Dr. Keenan Ryan, Infectious Disease Pharmacist, University of New Mexico Hospital
Research mentor, Dr. Cheyenne Newsome, Clinical Assistant Professor, Washington State University
Research mentor, Dr. Jessie Maxwell, Assistant Professor, Dept of Pediatrics, Division of Neonatology, UNM
Research mentor, Dr. Sharon Ruyak, Assistant Professor, College of Nursing, UNM

Awards received by mentees (names of mentored students are underlined):

1. Bonnie Young, W Rayburn, S Phelan, J Dalen, Preeyaporn Sarangarm, Pallavi Jaiswal, C Schesser, K Forzani, J Cox, E Flores, J Vergara-Blake, LN Bakhireva. "*Lack of Inquiry about Safety of Medications in Pregnancy among Latinas: SMART Study Results.*" Poster presentation at the 2009 University of New Mexico's College of Pharmacy Research Retreat. **Graduate Student Award for Best Poster.**
2. Preeyaporn Sarangarm, W Rayburn, S Phelan, Bonnie Young, Pallavi Jaiswal, K Forzani, J Cox, E Flores, Ju Vergara-Blake, C Schesser, LN Bakhireva. "*The Use of Preferred and Non-preferred OTC Analgesic/Antipyretic Medications During Pregnancy: Results from the SMART Study.*" Poster presentation at the 2009 University of New Mexico's College of Pharmacy Research Retreat. **College of Pharmacy Annual Student Research Award.**
3. Sizhu Liu, Bonnie Young, M Dodd, L Georgopoulos, LN Bakhireva. "*Prevalence and Predictors of Multivitamin Use among Pregnant Women in New Mexico.*" Poster presentation at the UNM College of Pharmacy Research Day. April 14th, 2011. **First Place Award for the Best Graduate Student Poster.**

4. Khalid F. Al Moaikel, LN Bakhireva. “*Interactive Effects between Moderate Alcohol Consumption and Tobacco Use on Cardiovascular Events*”. Poster presentation at the UNM College of Pharmacy Research Day. April 14th, 2011. **Second Place Award for the Best Graduate Student Poster.**
5. Linda Gutierrez, Bonnie Young, Preeyaporn Sarangarm, Sizhu Liu, S Phelan, W Rayburn, LN Bakhireva. “*Complementary and Alternative Medicine Products and Adverse Pregnancy Outcomes.*” Poster presentation at the UNM College of Pharmacy Research Day. April 14th, 2011. **Second Place Award for the Best Pharmacy Student Poster.**
6. Robles L, Bakhireva L, Nawarskas J. Predictors of Receiving and Adhering to Hypertension Therapeutic and Lifestyle Modification Management. Poster presentation: ISPOR Annual International Meeting (2012). **Finalist ribbon for the best student poster presentation.**
7. Garg M, Leeman L, Cano S, Wolhert E, Goff C, Rayburn WF, Bakhireva LN. Agreement Between Self-Report, Maternal and Newborn Urine Toxicology Screens for Drug Use During Pregnancy. Poster presentation at the UNM CoP 7th Annual Research and Scholarship Day (2012). **First place for the best poster** in the PPAS graduate student category.
8. Garcia A, Bakhireva LN. Detection of Hazardous Alcohol Use in Pregnancy. Poster presentation at the UNM CoP 7th Annual Research and Scholarship Day (2012). **Second place for the best poster** in the undergraduate student category.
9. Garg M, Kharat A, Gutierrez H, Wohler E, Stephens E, Savage DD. Effect of Concomitant Drug Use on Adverse Perinatal Outcomes in Opioid-Maintenance Women (2013). **First place for the best poster** in the PPAS graduate student category.
10. Zhao Y, Borrego M, Raisch D, Bakhireva L, Georgopoulos L. Predictors of Smoking Cessation Attempts and Success among Smokers in the Behavioral Risk Factor Surveillance System (2013). **Second place for the best poster** in the PPAS graduate student category.
11. Berry M, Sarangarm D, Schmitt C, Gutierrez H, Shrestha S, Savage DD, Bakhireva LN. Feasibility of Confirming Alcohol Consumption from Banked Dry Blood Spot Cards. Poster Presentation: Teratology Society 54th Annual Meeting; Bellevue, WA, 2014. **Teratology Society travel award**
12. Murrietta A, Roberts M, Bakhireva LN. Social Support, Ethnicity, and Physical Activity during Pregnancy: Information from the 2009 BRFSS. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. **First place for the best poster** in the PPAS graduate student category.
13. Shrestha S, Backrycz A, Shah D, Tinker D, Bakhireva LN. Nutritional Imbalance in Pregnant Women on Opioid Maintenance Therapy. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. **Second place for the best poster** in the PPAS graduate student category.
14. Holbrook BD, Bishop S, Williams S, Cano S, Davies S, Bakhireva LN, Savage DD. Altered Expression of Placental Proteins Related to Angiogenesis in Pregnancies Exposed to Alcohol. Podium presentation. 2016 Teratology Society Annual Meeting. San Antonio, TX. **Teratology Society travel award**
15. Henrie A, Shrestha S, Bakhireva LN. Characteristics Associated with Meeting Physical Activity Recommendations in 2015 BRFSS Survey Participants Diagnosed with Prediabetes. Poster presentation at the UNM CoP 2017 Annual Research and Scholarship Day. **First place for the best poster** in the PPAS graduate student category.
16. Rafi J, Bakhireva LN*, Roberts M* (* equal contribution as co-mentors). The association between the severity of obstructive lung disease and health-related early retirement using the health retirement survey data. Poster presentation at the UNM CoP 2017 Annual Research and Scholarship Day. **Second place for the best poster** in the PPAS graduate student category.
17. Shrestha S, Sharkis J, Miranda-Shorabji T, Davies L, Garrison L, Williams L, Miranda R, & Bakhireva LN. Regional Differences and Correlated of Prevalence of Prenatal Alcohol Exposure in Texas as Assessed by PEth in Newborn Dry Blood Spots. Platform Presentation: 2017 Annual Meeting of the Fetal Alcohol Spectrum Disorder Study Group, June 24 2017, Denver, CO. Travel award to FASD-Study Group Satellite meeting.

18. Shrestha S, Lowe J, Cano S, Moss N, Aragon C, Stephen J, Bakhireva L. Association Between Moderate Alcohol Use in Pregnancy and Impaired Self-Regulation in Infants at 6 Months. New Mexico Public Health Association Annual Conference 2018. **Second place in the Student Poster Competition**

19. Kabella D., Flynn L, Cano S, Lowe JR, Bakhireva LN, Stephen JM. Reduced heart rate variability in associated with MEG spectral power in 6-month-old infants with prenatal alcohol exposure. Poster presentation 21st International Conference on Biomagnetism, Philadelphia, PA, August 26-30, 2018. – **Student Travel Award Winner**

PROFESSIONAL MEMBERSHIPS:

- 2004 - present Teratology Society

- 2004 - present Research Society on Alcoholism (RSA)

- 2007 - present Organization of Teratology Information Specialists (OTIS)

- 2007 - present Society of Pediatric and Perinatal Epidemiologic Research (SPER)

- 2009 – 2015 International Society for Pharmacoepidemiology (ISPE)

- 2009 – 2010 American Association of Colleges of Pharmacy (ACCP)

- 2008 – 2009 International Society for Pharmacoeconomics and Outcomes Research (ISPOR)

- 2007- 2009 American College of Clinical Pharmacy (ACCP)

- 2005 North American Menopause Society (NAMS)

SERVICE:

- Peer reviewer for the following selected journals:
- Pediatrics*
- Pharmacoepidemiology and Drug Safety*
- Journal of Obstetrics and Gynaecology*
- Alcoholism: Clinical and Experimental Res*
- Drug and Alcohol Dependence*
- Birth Defects Research Part A: Clinical and Molecular Teratology*
- Alcohol - An International Biomedical Journal*
- The International Journal of Alcohol and Drug Research*
- Reproductive Toxicology*
- Maternal and Child Health*
- American Journal of Public Health*
- Archives of Women’s Mental Health*
- American Journal of Respiratory and Critical Care Medicine*
- American Journal of Preventive Medicine*
- Annals of Allergy, Asthma & Immunology journal*
- Expert Review of Respiratory Medicine journal*
- Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy*
- Pediatric and Perinatal Epidemiology*
- American Journal of Epidemiology*
- Journal of Asthma*
- Journal of Immigrant and Minority Health*
- Science Translational Medicine*
- Substance Use and Misuse*
- Journal of Psychopharmacology*
- Journal of Early Human Development*

Neurotoxicology & Teratology journal

Service on the National Committees:

2008-2012	Teratology Society <i>Education Committee</i> (4-year term): 2008-09: member; 2009-10: Secretary ; 2010-11: Committee Chair , 2011-12: Past Chair
2011	Abstract reviewer, Society of Pediatric and Perinatal Epidemiologic Research (SPER) Reviewed and scored abstracts for the 2011 SPER annual meeting
2011-2014	Teratology Society <i>F. Clarke Fraser and Service Awards Committee</i> (3-year term): 2011-12: Secretary; 2012-13: Chair , 2013-14: Past Chair
2013-2016	Councilor (Board Member) , Teratology Society (3-year <u>elected official</u> term)
2013-2014	Teratology Society 2014 Program Committee, member
2014 -present	Texas FASD Surveillance and Epidemiology Workgroup
2014-2015	Teratology Society, Council liaison to the Awards Committee
2015-2016	Teratology Society, Council liaison to the Communications Working Group
2016- 2017	Teratology Society, Student Affairs Committee (SAG), member
2014	Co-Chair (with Dr. Sarah Obican), March of Dimes Symposium, Teratology Society 54 th Annual Meeting, Bellevue, WA
2015-present	Member of the Surveillance and Epidemiology Working Group (SEWG), Texas FASD Collaborative.
2016-2017	Chair , Research Society on Alcoholism/Teratology Society Joint Committee to Coordinate Scientific Exchange at the 2017 Annual Meeting
2017	Co-Chair (with Dr. John Rogers), Public Affairs Symposium, Teratology Society 57th Annual Meeting, Denver, CO
2017	Co-Chair (with Dr. Jeff Wozniak), Teratology Society, OTIS, and DNTS Exchange Symposium, Teratology Society 57th Annual Meeting, Denver, CO
2017-present	Member, Teratology Society Publications Committee (3-year term)
2017	Chair , Symposium "Issue Panel: Opioid Epidemic in New Mexico, the Role of Pharmacists". Western Pharmacoeconomics and Outcomes Research Conference, Albuquerque, NM
2017	Member of the Executive Committee , Western Pharmacoeconomics and Outcomes Research Conference, Albuquerque, NM
2018-2019	Teratology Society, Member of the Nominations Committee
2019- present	Co-Chair , HEALThy Brain and Child Development (HBCD) Exposure Assessment Working Group

- 2019- present Member, HEALTHy Brain and Child Development (HBCD) Pregnancy and Postpartum Women Literature Review Working Group
- 2019- present Member, HEALTHy Brain and Child Development (HBCD) Study Recruitment and Retention Working Group
- 2019-present Member, HEALTHy Brain and Child Development (HBCD) 5-STAR Consortium Administrative Working Group
- 2019-present Member, HEALTHy Brain and Child Development (HBCD) 5-STAR Consortium Study Design Working Group
- 2019- present Member, New Mexico NAS / NOWS Coordination Working Group

Reviewer for NIH Study Sections:

- October, 2014 Ad hoc reviewer, NIH Special Emphasis Panel/Scientific Review Group ZRG1 PSE-B (59)R
- June, 2015 Ad hoc reviewer, NIH Child Psychopathology and Developmental Disabilities Study Section (2015/10 CPDD)
- February, 2016 Ad hoc reviewer, NIH Child Psychopathology and Developmental Disabilities Study Section (CPDD)
- February, 2017 Ad hoc reviewer, NIH Child Psychopathology and Developmental Disabilities Study Section (CPDD)
- April, 2018 Reviewer, NICHD Special Emphasis Panel “Opioid Use Disorders in Pregnancy”
- October, 2018 Ad hoc reviewer, NIH Child Psychopathology and Developmental Disabilities Study Section (CPDD)
- July, 2019 Reviewer, NICHD Special Emphasis Panel in response to the RFA HD-19-025, HEAL Initiative: Antenatal OPIOID Exposure Longitudinal Study Consortium (PL1)
- June, 2020 Ad hoc reviewer, Behavioral Genetics and Epidemiology Study Section (BGES)

Service, University of New Mexico (UNM):

- 2008 – 2019 Member, New Mexico Alcohol Research Center
- 2008 –2018 UNM Health Sciences Center Environmental Health Signature Program (EHSP), Member, Epidemiology and Exposure Assessment cluster
Member of the Steering Committee (2010-2013)
- 2008 – 2009 UNM Signature Program for Child Health Research (SPCH),
Member of the *ad hoc* review committee for SPCH pilot research grants
- 2011-2012 Member, Working Group to develop a new CTSC Seminar Series
- 2012-2014 Member, CTSC Faculty Mentor Development Group
- 2016-present Member, CTSC Multidisciplinary Advisory Group to KL2 Scholars

2016	Reviewer, UNM HSC Research Excellence Awards Committee
2016 – 2017	Member, UNM-HSC Office of Research Working Group: Strategic Planning for Opioid Prevention Research
2018 – 2019	Member, Search Committee: Dean, College of Population Health
2019 – present	Co-Director, UNM-HSC Brain and Behavioral Health (BBHI) Institute
2019-2020	Member, Evaluation Committee, A/E Professional Design Services for UNM HSC Substance Use & Brain Injury Facility Expansion Project (RFP-2165-20)
2019- present	Member, UNM-HSC Research Strategic Planning Committee (RSPC)
2019- present	Member, UNM-HSC Center Directors Committee

Service, University of New Mexico College of Pharmacy (CoP):

2008 – 2015	Member, College of Pharmacy Research & Scholarship Committee
2009 – 2010	Leader, College of Pharmacy Working Group to assess Pharm.D. students' interest in the joint degree programs
2009	Member, Department of Pharmacy Practice Search Committee for department administrator
2010-2012	Member, Department of Pharmacy Practice Search Committee for a faculty position (Pharmacy Administration)
2010-2011	Member, Department of Pharmaceutical Sciences Search Committee for a faculty position (Toxicology)
2012 – 2018	Chair , CoP Graduate and Postdoctoral Affairs Committee
2012 – present	Member, Promotion & Tenure Committee
2014 - 2015	Member, Department of Pharmaceutical Sciences Search Committee for a research faculty position (Director of the Environmental Health Program)
2016	Member, Department of Pharmacy Practice and Administrative Sciences Search Committee for a pharmacoepemiology faculty position
2016	Member, Department of Pharmacy Practice and Administrative Sciences for a HEOR faculty position
2019 – present	Member, Graduate Affairs Committee
2019- present	Member, COP Search Committee
2019- present	Member, Research Strategic Planning Committee (RSPC)
2019- present	Member, Center Directors Committee

Pharmacoeconomics, Epidemiology, Pharmaceutical Policy, and Outcomes Research (PEPPOR) graduate program committees:

2008 – 2013	Chair , PEPPOR Web site sub-committee
2008 – 2013	Member, PEPPOR Curriculum committee
2008 – 2018	Member, PEPPOR Admissions committee
2016	Chair , PEPPOR Task Force to develop guidelines for PhD preliminary and qualifying exams

CONTRACTS AND GRANTS:

Current grants/contracts:

3 R01 AA021771-08S1-supplement	Bakhireva/Ruyak	09/15/2020 – 08/31/2021
<i>“The effect of the COVID-19 pandemic on alcohol use and psycho-somatic health in pregnant and postpartum women with intersecting vulnerabilities”</i>		
The purpose of this administrative supplement to the ENRICH-2 cohort is to evaluate the effect of COVID-19 on adverse maternal and infant outcomes, including a) <i>psychosocial outcomes and alcohol use</i> , assessed as COVID-19 stress related to exposures and symptoms, COVID-19 pandemic adjustment, emotion regulation, mother-infant attachment, and alcohol consumption; b) <i>physiologic outcomes</i> assessed as heart rate variability and sleep patterns, evaluated by wearable electronics – an approach particularly novel in the current social distancing environment.		
Role: Principal Investigator		Year 1 cost: \$134,896
2 R01 AA021771-06	Bakhireva (P.I.)	09/20/2018-08/31/2023
NIH/NIAAA		
<i>“ENRICH-2: Stress Reactivity and Self-Regulation in Infants with Prenatal Alcohol Exposure”</i>		
The goal of this competing renewal project is to continue the focus on young children with moderate PAE and to evaluate PAE effects on infant stress reactivity and regulation and the mechanisms underpinning altered HPA axis and ANS functioning, including <i>changes in biological, electrophysiological, and behavioral indices of stress reactivity</i> in 240 maternal-infant pairs		
Role: PI (40%)		Total cost: \$3,336,298
1 UG1DA049468-01	K. Page (P.I.)	06/01/2019-05/31/2024
NIH/NIDA		
<i>New Mexico Clinical Trials Node: clinical research and practice to address substance use in diverse, rural and underserved populations</i>		
This application establishes a <u>Southwest Node of the NIDA Clinical Trials Network (NIDA-CTN)</u> .		
Role: Co-Investigator		Total direct cost: \$2,494,823
1 UG1DA049468-01-supplement	K. Page (PI)/ Site P.I.: L. Leeman	06/1/2019-05/31/2024
<i>Site for Protocol “CTN-0080: Medication treatment for Opioid-dependent expecting Mothers (MOMs)”</i>		
The trial will assess the impact of different formulations of buprenorphine: BUP-XR, compared to BUP-SL- for treatment of opioid use disorder in pregnant women on maternal-infant outcomes.		
Role: Significant Contributor		Total direct: \$1,950,000
1R34DA050237	Bakhireva (Contact P.I.)/Leeman/Stephen	09/30/2019 – 03/29/2021
NIH/NIDA		
<i>“6/6 Planning for the HEALTHy Early Development Study”</i>		

This application is awarded as part of the NIH's Helping to End Addiction Long-term (HEAL) initiative for the developmental/feasibility state of the national HEALthy Brain and Child Development Study (HEALthy BCD). The grant funds pilot research studies of the 5-STAR (linked applications between UCSD, Emory, OSU, Case Western Reserve, and UNM) Consortium as well as planning/feasibility activities at the national level.

Role: Contact PI (20%)

Total cost: \$542,462

R21 HD090733

Bakhireva (**Contact P.I.**)/Miranda (MPI)

04/01/2018 - 03/31/2020

NIH/NICHD

"Epigenetic Markers for Neonatal Abstinence Syndrome: Mechanistic Insights from an Established Birth Cohort"

The goal of this project is to better understand epigenetic factors contributing to NAS variability by examining intra-cellular (leukocytes) and extra-cellular (plasma) miRNAs that differentiate infants with NAS and without NAS. Additionally, the project will examine the extent to which this miRNA composite signature of cell and tissue adaptation predict the severity of NAS in a well-characterized prospective pre-birth cohort.

Role: Contact PI (15% effort)

Total costs: \$425,413

1C06OD028370-01

Larson (P.I.)

09/19/2019-05/31/2024

"Biomedical Research Facility"

The purpose of this construction grant is to develop and establish the Interdisciplinary Substance Use and Brain Injury (ISUBI) Core Facility at UNM-HSC.

Role: Co-Investigator

Total cost: \$8,125,000

NIH Loan Repayment Program

Beauchamp (P.I.)

07/01/2019 - 06/30/2021

NIH/NCATS

"Neurodevelopmental Outcomes Associated with Prenatal Opioid Maintenance Therapy, Prenatal Stress, and Maternal Mental Health"

Role: Mentor (no salary support)

UL1 TR001449 CTSC Pilot grant (CTSC006-7) Ruyak (**P.I.**)

10/01/2019 to 09/30/2020

"The relationship between prenatal opioid use and altered immune and serotonin factors in human placenta".

Role: Co-Investigator

Total cost: \$25,000

3R34DA050343-01S2

Croff/Morris (**M.P.I.s**)

09/30/2019 – 03/31/2021

"Understanding the effects of COVID-19 on maternal substance use"

Recipient: Oklahoma State University Center for Health Sciences

The goal of this administrative supplement to the HBCD 5-STAR Consortium (linked applications between UCSD, Emory, Oklahoma State University, Case Western Reserve, and UNM) to evaluate the effect of COVID-19 on pregnant and postpartum women with a history of substance use disorders.

Role: Consultant

Total project cost: \$100,000

Pending:

1 R44 DA053148-01

Patel (P.I.)

09/01/2020 - 08/31/2023

"Pre-symptomatic detection of neonatal opioid withdrawal syndrome (NOWS) severity by novel isothermal PCR-based miRNA assessment"

This is a SBIR application between FYR Diagnostics, UNM-HSC, and Texas A&M. Building on our preliminary data from the R21 project, this project aims to finalize the miRNA-based diagnostic test to differentiate infants with severe NOWS from those with no/mild NOWS shortly after birth before symptoms of withdrawal develop.

Role: UNM subaward PI

Total Direct Costs: \$1,596,975

Completed grants/contracts:

Contract Bakhireva (P.I.) 10/08/2019 – 08/31/2020
New Mexico Department of Health (OCCS# DOH 20-46)
“Expansion of NM Pharmacists and Pharmacy Technician Naloxone Training Project”
The purpose of this contract is to design and develop “Consider New Mexico” training materials, train the trainers, conduct in-person naloxone trainings with community pharmacists and technicians in 25 pharmacies in New Mexico, maintain a CPE on-line training course and accreditation for pharmacists, and conduct program evaluation of the Consider intervention approach.
Role: Principal Investigator Total cost: \$60,000

Contract Bakhireva (P.I.) 04/29/2019-08/31/2019
New Mexico Department of Health
“Consider New Mexico: Pharmacist and Pharmacy Technician Naloxone Training”
The purpose of this contract is to design and develop “Consider New Mexico” training materials, train the trainers, conduct in-person naloxone trainings with community pharmacists and technicians in 30 pharmacies in New Mexico, develop a CPE on-line training course for pharmacists, and conduct program evaluation of the Consider intervention approach.
Role: Principal Investigator Total cost: \$122,380

1 R01 AA021771 Bakhireva (Contact P.I.)/Stephen (MPI) 07/15/13-06/30/18
NIH/NIAAA (NCE through 06/30/19)
“Early Indices of Atypical Neurodevelopment Associated with Fetal Alcohol Exposure”
The goal of this project is to assess utilize a prospective cohort design to determine whether ethanol biomarkers have utility for predicting information processing deficits, as assessed by neurobehavioral and functional neuroimaging techniques, in children at 6 and 20 months of age. Total cost: \$3,160,518
Role: Contact PI
Impact score: 1.0 (percentile: 1st)

1 P50 AA022534 Savage (Center P.I.) 08/05/14-06/30/19
NIH/NIAAA
“Fetal ethanol-induced behavioral deficits: Mechanisms, diagnosis and Intervention” Total cost: \$8.1 million
Component 7 (R01-equivalent) Bakhireva/Perrone-Bizzozero (MPIs)
“MircoRNAs as novel biomarkers of alcohol use in pregnancy” Total direct cost: \$895,462 (Component 7)
Role: Multi PI on Component 7 (11% effort)

UL1 TR001449-04 CTSC Admin Supplement Larson (CTSC P.I.) 09/15/2018-03/31/2019
Bakhireva/ (Project Director)
NIH/NCATS
Administrative Supplements to Enhance Network Capacity: Collaborative Opportunities for the CTSA Program
“Multi-state Initiative to Increase Engagement of Pharmacist in Naloxone Dispensing Activities”
The overarching objective of this multi-CTSA collaboration is to develop, pilot test, and subsequently disseminate a sustainable model to increase the dispensing of naloxone by community pharmacists to patients at risk of opioid overdose and their caregivers.
Role: Project Director (25% effort) Total cost: \$298,963

Contract Bakhireva (UNM P.I.) 08/01/14 – 06/30/18
Organization of Teratology Information Specialists (OTIS), contract with the UCB Biosciences Inc through the University of California, San Diego (UCSD) “OTIS Research Studies”.
Role: UNM P.I. (5% effort) Total cost: \$84,800

T32 (AA014127) Valenzuela (P.I.) 08/01/13-07/31/18
The objective of this NIH/NIAAA training program is to provide Ph.D. and MD/PhD students with multidisciplinary training that will prepare them for a successful future career in alcohol research.

Role: Faculty advisor (no salary support)

1 R15 AA022242-01 Bakhireva (**Contact P.I.**)/Lewis 09/01/13-08/31/16
NIH/NIAAA

"Interactive Effect of Environmental Exposures and Alcohol in the Navajo Birth Cohort"

The goal of this study is to estimate the prevalence of prenatal alcohol exposure through meconium screening in the NBC study and to examine the interaction between environmental toxicants and prenatal alcohol exposures. Total cost: \$421,922

Role: Contact PI (15% effort)

Impact score: 11.0

Intramural project (UNM CoP discretionary funds) Bakhireva (Leader) 2015-2017

POINt-Rx Program (Prevention of Opioid Overdose by New Mexico Pharmacists)

The goals of this program are to utilize the collaborative partnership to investigate barriers and facilitators to successful pharmacy-based opioid overdose prevention in both rural and urban areas; to research the most effective strategies for increasing access to Narcan® and reduce health disparities through pharmacy-based prescribing.

Role: Leader

1UL1TR001449-01 Bakhireva (**Pilot Project P.I.**)/Larson (CTSC PI) 04/01/16-03/31/17
NIH/NCATS

"Altered expression of angiogenesis-related proteins in placenta as a prognostic biomarker of altered brain development"

Role: PI on a Pilot Project

Total cost: \$40,000

Contract Bakhireva (**P.I.**) 01/01/15 - 03/31/16

Texas Office of Prevention of Developmental Disabilities, Texas Department of Health

"Feasibility of Estimating Prenatal Alcohol Exposure from Residual Newborn Screening Specimens"

Role: UNM P.I. (5% effort)

Total cost: \$24,000

Contract Bakhireva (**P.I.**) 1/15/16 - 12/31/16

Texas Department of State Health Services (DSHS), subcontract through Texas A&M University HSC

"Fetal Alcohol Spectrum Disorders"

Role: UNM P.I. (5% effort)

Total cost: \$56,000

Intramural project (UNM CoP discretionary funds) Bakhireva/Bachyrytz (**Co-PIs**) 2014-2016

University of New Mexico

"Data Registry for the New Mexico Pharmacist Association Naloxone Prescription Authority Program"

Role: Co-PI/Mentor (in-kind contribution)

1 P50 AA022534 Savage (Center P.I.) 08/05/14-06/30/15
NIH/NIAAA

"Fetal ethanol-induced behavioral deficits: Mechanisms, diagnosis and Intervention" Total cost: \$8.1 million

Component 8A (R03-equivalent) Bakhireva (**Component P.I.**)

"Ultrasound Markers of Fetal Alcohol Exposure"

Role: PI on Component 8A (8% effort)

Total direct cost: \$160,000 (Component 8A)

CTSC Pilot Bakhireva/Sarangam (**Co-PIs**) 10/01/13-09/31/14

CTSC Pilot and Collaborative Research Program, University of New Mexico, Innovation Award

"Stability of Phoshatidylethanol (PEth) in Dry Blood Spot Samples"

The goal of this project is to ascertain stability of PEth in dry blood spot samples collected from patients admitted with alcohol intoxication to the UNM Emergency Department.

Role: Co-P.I. (no salary support)

Total cost: \$24,436

Contract Bakhireva (**UNM P.I.**) 09/01/10 - 07/31/14
Organization of Teratology Information Specialists (OTIS), subcontract through the University of California, San Diego (UCSD) "OTIS Research Studies".
Role: UNM P.I. (no salary support) Total cost: \$75,000

1R03AA020170-01 Bakhireva (**P.I.**) 09/01/10-08/31/12
NIH/NIAAA (no cost extension through 02/28/13)
"Utility of Phosphatidylethanol for Identification of Fetal Alcohol Exposure"
The goal of this project is to establish sensitivity and specificity of a novel ethanol biomarker, phosphatidylethanol (PEth), for identification of prenatal alcohol exposure in dried blood spot samples obtained from newborns during routine Newborn Screen testing within 48 hours after delivery.
Role: P.I. (13.5% effort) Total direct cost: \$50,000
Total cost: \$75,500

1 P20 AA017608 Savage (Center P.I.) 07/01/10-06/31/13
Bakhireva (**P.I. of Component 10**, ("R21-level" funding))
NIH/NIAAA P20 New Mexico Alcohol Research Center (NMARC)
"Diagnostic and Prognostic Utility of Direct Ethanol Metabolites in Fetal Alcohol Spectrum Disorders"
Role: P.I. of Component 10 (10% effort)
Direct annual cost: Year 1: \$60,000; Year 2: \$83,912; Year 3: \$82,912
Total cost: \$340,238

Foundation grant Bakhireva (**P.I.**) 06/01/09-05/31/11
ABMRF/The Foundation of Alcohol Research (no cost extension through 05/31/12)
"Traditional and Novel Biomarkers in Identification of Moderate Prenatal Alcohol Exposure"
The goal of this project is to establish validity of direct ethanol metabolites in identification of moderate alcohol exposure in pregnancy.
Role: P.I. (10% effort) Total cost: \$100,000

NIH/NICHD Bakhireva (**P.I.**) 09/23/10-09/31/11
National Children's Study (NCS) formative research (Round # 3, Project #BIO-01-B)
Contract No: HHSN267200700031C ("R21-level" funding)
"Analysis of environmental chemicals in dried blood spots collected during routine newborn screening"
The goal of this formative research project is to establish feasibility and to develop a protocol for collection of an additional dried blood spot card from newborns during the routine newborn screening which can be used for analysis of prenatal exposures, including substance use.
Role: P.I. (10% effort) Total cost: \$88,054

CTSC pilot/BBHI Bakhireva (**P.I.**) 08/01/11-07/31/12
University of New Mexico Brain and Behavioral Health Institute (BBHI) / CTSC
"Biomarkers, Neurodevelopment, and Growth Study"
The purpose of this pilot grant is to assess prognostic utility of ethanol biomarkers, measured in a newborn child, in predicting future neurodevelopmental outcomes at four months of age.
Role: P.I. (no salary support) Total cost: \$14,019

CTSC pilot Bakhireva/Perrone-Bizzozero (**Co-P.I.s**) 10/01/11-09/31/12
CTSC Pilot and Collaborative Research Program, University of New Mexico, Linking Technology application
"Serum microRNAs as biomarkers of maternal alcohol consumption".
The goal of this project is to identify signatures of circulating microRNAs in maternal blood that predict alcohol exposure using serological samples from an established cohort of pregnant women at UNM.
Role: Co-P.I. (equal contribution with Dr. Perrone-Bizzozero) Total cost: \$23,749

NIH/NICHD Savage (P.I.) 09/23/10-09/31/11
National Children's Study (NCS) formative research (Round # 3, Project #RT-02-B)
Contract No: 267200700031C ("R21-level" funding)
"Development of a single, cost effective procedure for rapid collection of placental tissue through high throughput assay studies"
The goal of this formative research project is to establish a protocol for collection and banking of placental tissue which can be suitable for future proteomics and genomics studies within the NCS cohort and beyond.
Role: Co-Investigator. (10% effort) Total cost: \$156,782

1UL1RR031977 Bakhireva (P.I.) 07/01/10-03/31/11
NIH/NCRR, The University of New Mexico, Clinical and Translational Science Center (CTSC)
"Maternal and Newborn Biomarkers of Prenatal Alcohol Exposure".
The purpose of this pilot grant-in-aid is to provide CTSC infrastructure support, including services provided by the CTSC research newborn nurses, Bioinformatics Core, and Core Laboratory for Dr. Bakhireva's cohort of polysubstance-using pregnant women and their newborns.
Role: P.I. (no salary support) Total cost: \$3,200

5U24 AA-0148-15 Jones (P.I.) 09/01/07-08/31/10
NIH/NIAAA
"Collaborative Initiative on Fetal Alcohol Spectrum Disorders: Dysmorphology Core."
The main goal of this project is to provide a consistent evaluation of children prenatally exposed to alcohol and unexposed comparison subjects and to fully delineate the physical features of children affected by FASD.
Role: Co-investigator (5% effort: 09/01/07-07/31/09; 15% effort: 08/01/09-present)
Annual direct cost: \$99,606 UNM subcontract: \$17,400

Intramural grant Bakhireva (P.I.) 08/01/09-07/31/10
University of New Mexico Health Sciences Center
Environmental Health Signature Program (EHSP) pilot grant
"Risk Factors of Lead Exposure among Socially Disadvantaged Pregnant Women in New Mexico and Adverse Perinatal Outcomes"
Role: P.I. Total cost: \$13,750

Intramural grant Bakhireva/Young (co-P.I.s) 2009-2010
University of New Mexico Signature Program in Child Health Research.
"Acculturation and Risk Factors for Adverse Perinatal Outcomes among Pregnant Immigrants in New Mexico"
The goal of this pilot project is to evaluate the effect of acculturation and other social factors with respect to adverse perinatal outcomes among pregnant immigrants in New Mexico.
Role: co-P.I./mentor Total cost: \$4,000

CTSC pilot Bakhireva (P.I.) 12/01/09-06/30/10
NIH/University of New Mexico Clinical and Translational Science Center (CTSC) 5M01RR000997-35 Sub-Project ID: 6500
"Validity of Biomarkers of Alcohol Exposure among Illicit Drug-Using Pregnant Women in New Mexico"
Role: P.I. Total cost: \$15,000

Intramural grant Bakhireva/Gutierrez (co-P.I.s) 06/01/10-08/31/10
University of New Mexico College of Pharmacy Pappiani's Circle Fund.
"Safety of Complementary and Alternative Medicine Products During Pregnancy".
The goal of this prospective study is to ascertain prevalence of use and safety profile of complementary and alternative therapy when used in pregnancy. Total cost: \$5,500
Role: co-P.I./mentor

U01 AA-0148-35 Chambers (P.I.) 09/01/07-07/31/09

NIH/NIAAA

“Collaborative Initiative on Fetal Alcohol Spectrum Disorders: Spectrum of and Nutritional Risk Factors for FASD in Russia and Ukraine.”

The main goals of this prospective study with a clinical trial component is to more fully delineate the complete range of FASD expression and to test the potential benefit of maternal second and third trimester supplementation with micronutrients that may help ameliorate negative outcomes of prenatal alcohol exposure.

Role: Co-investigator (15% effort)

Annual direct cost: \$605,633

UNM subcontract: \$17,400

Intramural grant

Bakhireva/Young (co-P.I.s)

2008-2009

University of New Mexico Signature Program in Child Health Research.

“Barriers towards Adequate Treatment of Chronic Maternal Disorders during Pregnancy and the Effect of Under-treatment on Adverse Neonatal Outcomes”.

The goal of this multi-center prospective study of pregnant women in New Mexico is to ascertain patient- and provider-determined barriers toward adequate treatment of chronic disorders in pregnancy and the effect of poorly controlled maternal conditions on adverse perinatal outcomes.

Role: co-P.I./mentor

Total cost: \$4,000

Intramural grant

Bakhireva/Sarangarm (co-P.I.s)

2008-2009

University of New Mexico College of Pharmacy Pappiani’s Circle Fund.

“The Use of Over-The-Counter Medications and Perception of Teratogenicity in Pregnant Women”.

The goal of this prospective study is to examine utilization of over-the-counter (OTC) medications among pregnant women in New Mexico and to determine patients’ perception about teratogenicity of OTC medications when used in pregnancy.

Role: co-P.I./mentor

Total cost: \$5,500

Foundation grant

Bakhireva (P.I.)

02/01/08-01/31/09

The American College of Clinical Pharmacy (ACCP), Investigator Development Research Award

“The Role of Statins in Prevention of Osteoporosis-related Fractures.”

The primary goal of this study is to examine the role of lipid-lowering therapy in prevention of osteoporosis-related fractures using a large HMO database.

Role: P.I.

Total cost: \$20,000

Intramural grant

Bakhireva (P.I.)

03/01/08-02/28/09

University of New Mexico Health Sciences Center Research Allocation Committee (RAC)

“The Role of Statins in Prevention of Osteoporosis-related Fractures.”

Role: P.I.

Total cost: \$10,000

5U01 AA14835-03

Chambers (P.I.)

09/30/03-08/31/07

NIH/NIAAA

“Collaborative Initiative on Fetal Alcohol Spectrum Disorders: Risk Factors for FASD in the Moscow region”

This study investigates the pregnancy outcomes in women in the Moscow region who report moderate to heavy alcohol consumption during pregnancy.

Role: Program Manager (60% effort)

5U24 AA14835-05

Jones (P.I.)

09/30/03-08/31/07

NIH/NIAAA

“Collaborative Initiative on Fetal Alcohol Spectrum Disorders: Dysmorphology Core.”

The main goal of this project is to provide a consistent evaluation of children prenatally exposed to alcohol and unexposed comparison subjects.

Role: Program Manager (40% effort)

Intellectual Property

U.S. Provisional Application No. 62/864,578 titled "Signature miRNA to predict neonatal opioid withdrawal syndrome" filed Jun 21, 2019.

PUBLICATIONS (peer-reviewed manuscripts):

Peer-reviewed review articles:

1. **Bakhireva LN**, Schatz M, Chambers CD. Effect of Maternal Asthma and Gestational Asthma Therapy on Fetal Growth (Review). *Journal of Asthma*. 2007; 44(2):71-76.
2. **Bakhireva LN**, Savage DD. Biomarkers of Fetal Alcohol Exposure and Fetal Alcohol Effects (Review). *Alc Res Health*. 2011; 34:56-63.
3. Garrison L, Morley S, Chambers CD, **Bakhireva LN**. Forty Years of Assessing Neurodevelopmental Effects of Prenatal Alcohol Exposure in Infants: What Have We Learned? Review. *Alcohol Clin Exp Res* 2019;43(8):1632-1642

Original research manuscripts:

4. Kuperman B, Matey V, Fisher R, Ervin E, Warburton M, **Bakhireva L**, Lehman C. Parasites of the African clawed frog, *Xenopus laevis*, in Southern California. *Journal of Comparative Parasitology*. 2003;71:229-232.
5. **Bakhireva LN**, Abebe Y, Brodine S, Kraft H, Shaffer R, Boyer C. HIV/AIDS Knowledge and Risk Factors in Ethiopian Military Personnel. *Mil Med*. 2004; 169(3):221-6.
6. **Bakhireva LN**, Barrett-Connor E, Kritz-Silverstein D, Morton D. Modifiable Predictors of Bone Loss in Older Men: The Rancho Bernardo Study. *Am J Prev Med*. 2004;26(5):436-42.
7. **Bakhireva LN**, Barrett-Connor EL, Laughlin GA, Kritz-Silverstein D. Differences in association of bone mineral density with coronary calcification in men and women: the Rancho Bernardo Study. *Menopause*. 2005; 12(6): 691-8.
8. **Bakhireva LN**, Jones KL, Schatz M, Johnson D, Chambers CD, The Organization Of Teratology Information Services Research Group. Asthma medication use in pregnancy and fetal growth. *J Allergy Clin Immunol*. 2005;116(3):503-9.
9. Chambers CC, Kavteladze L, Joutchenko L, **Bakhireva LN**, Jones KL. Alcohol consumption patterns among pregnant women in the Moscow region of the Russian Federation. *Alcohol*. 2006;38(3):133-7.
10. Jones KL, Robinson LK, **Bakhireva LN**, Marintcheva G, Storojev V, Strahova A, Sergeevskaya S, Budantseva S, Mattson SN, Riley EP, Chambers CD. Accuracy of the diagnosis of physical features of fetal alcohol syndrome by pediatricians after specialized training. *Pediatrics*. 2006;118(6):1734-8.
11. Arenson A.D., **Bakhireva L.**, Chambers T., Deximo C., Foroud T., Jacobson J., Jacobson S., Jones K.L., Mattson S., May P., Moore E., Ogle K., Riley E., Robinson L., Rogers J., Streissguth A., Tavares M., Urbanski J., Yezerets H., Stewart C.A. Implementation of a Distributed Architecture for Managing Collection and Dissemination of Data for Fetal Alcohol Spectrum Disorders Research. *Lecture Notes in Computer Science*. 2007: 4360:33-44.
12. **Bakhireva LN**, Jones KL, Schatz M, Klonoff-Cohen H, Johnson D, Slymen D, Chambers CD, The Organization Of Teratology Information Services Research Group. Safety of Leukotriene Receptor Antagonists in Pregnancy. *J Allergy Clin Immunol*. 2007:199(3):618-25.

13. **Bakhireva LN**, Schatz M, Jones KL, Tucker CM, Slymen DJ, Klonoff-Cohen HS, Gresham L, Johnson D, Chambers CD, OTIS Collaborative Research Group. Fetal Sex and Maternal Asthma Control in Pregnancy. *J Asthma*. 2008; 45:403-7.
14. **Bakhireva LN**, Laughlin GA, Bettencourt, R, Barrett-Connor E. Does Osteoprotegerin or RANKL Mediate the Association Between Bone and Coronary Artery Calcification? *J Clin Endocrin Metab*. 2008; 93(5):2009-12.
15. **Bakhireva LN**, Schatz M, Jones KL, Chambers CD, OTIS Collaborative Research Group. Asthma Control During Pregnancy and the Risk of Preterm Delivery or Impaired Fetal Growth. *Ann Allergy Asthma Immunol*. 2008;101:137-43
16. Jones KL, Hoyme HE, Robinson LK, Del Campo M, Manning MA, **Bakhireva LN**, Prewitt LM, Chambers CD. Developmental pathogenesis of short palpebral fissure length in children with fetal alcohol syndrome. *Birth Defects Res A Clin Mol Teratol*. 2009; 85:695-9
17. Kfir M, Yevtushok L, Onishchenko S, Wertelecki W, **Bakhireva LN**, Chambers CD, Jones KL, Hull AD. Can Prenatal Ultrasound Detect the Effects of *in utero* Alcohol Exposure? A pilot study. *Ultrasound Obstet Gynecol*. 2009; 33:683-9.
18. BE Benson, DA Spyker, WG Troutman, WA Watson, **LN Bakhireva**. Amlodipine Toxicity in Children Less than 6 Years of Age: A Dose-response Analysis Using National Poison Data System (NPDS) Data. *The Journal of Emergency Medicine*. 2010;39:186-93.
19. **Bakhireva LN**, Young BN, Dalen J, Phelan ST, Rayburn WF. Periconceptional Binge Drinking and Acculturation among Pregnant Latinas in New Mexico. *Alcohol*. 2009;43:475-81.
20. Arenson A.D., **Bakhireva L.N.**, Chambers C.D., Deximo C.A., Foroud T., Jacobson J.L., et al. Implementation of a Shared Data Repository and Common Data Dictionary for Fetal Alcohol Spectrum Disorders Research. *Alcohol*. 2010;44:643-7
21. **Bakhireva LN**, Shainline MR, Carter S, Robinson S, Beaton S, Nawarskas J, Gunter M. Synergistic Effect of HMG-CoA Reductase Inhibitors ("statins") and Postmenopausal Hormone Therapy in Prevention of Skeletal Fractures in Elderly Women. *Pharmacotherapy*. 2010; 30:879-87.
22. **Bakhireva LN**, Young BN, Dalen J, Phelan ST, Rayburn WF. Patient Utilization of Information Sources about Safety of Medications During Pregnancy. *J Reprod Med*. 2011;56:339-43.
23. **Bakhireva LN**, Wilsnack SC, Kristjanson A, Yevtushok L, Onishenko S, Wertelecki W, Chambers CD. Paternal Drinking, Intimate Relationship Quality, and Alcohol Consumption in Pregnant Ukrainian Women. *J Stud Alcohol Drugs*. 2011;72:536-44.
24. Sarangarm P, Young BN, Rayburn, WF, Jaiswal P, Dodd M, Phelan ST, **Bakhireva LN**. Agreement between self-report and prescription data in medical records for pregnant women. *Birth Def Res Part A*. 2012;94:153-61.
25. **Bakhireva LN**, Cano S, Rayburn WF, Savich RD, Leeman L, Anton RF, Savage DD. Advanced Gestational Age Increases serum Carbohydrate-Deficient Transferrin Levels in Abstinent Pregnant Women. *Alcohol Alcohol*. 2012 47(6):683-7

26. **Bakhireva LN**, Savich RD, Leeman L, Raisch D, Savage DD, Goff CD, Cano S, Moya D, Wafer M, Annett RD. Feasibility, Acceptability, and Cost of Alcohol Screening in Dried Blood Spots Collected during Routine Newborn Screening. In: Kasten CH. The National Children's Study. *Am J Med Genet A* 2012 Oct;158A(10):2385-90
27. Savage DD, Rosenberg MJ, Gregory C, **Bakhireva LN**, Savich RD, Annett RD. Development of a Simple, Cost Effective Procedure for the Rapid Collection of Placental Tissue for High Throughput Screening Assay Studies. In: Kasten CH. The National Children's Study. *Am J Med Genet A* 2012 Oct;158A(10):2385-90
28. **Bakhireva LN**, Rowland A, Young BN, Cano S, Phelan ST, Rayburn WF, Lewis J. Sources of Potential Lead Exposure among Pregnant Women in New Mexico. *Matern Child Health J.* 2013;17:172-9
29. **Bakhireva LN**, Savich RD, Raisch DW, Cano S, Annett RD, Leeman L, Garg M, Goff C, Savage DD. The Feasibility and Cost of Neonatal Screening for Prenatal Alcohol Exposure by Measuring Phosphatidylethanol in Dried Blood Spots. *Alcohol Clin Exp Res.* 2013 37:1008-15
30. Chambers CD, Johnson D, Xu R, Luo Y, Louik C, Mitchell AA, Schatz M, Jones KL, the OTIS Collaborative Research Group* (***Bakhireva L** listed as a OTIS Research Group co-author in the manuscript). Risks and Safety of Pandemic H1N1 Influenza Vaccine in Pregnancy: Birth Defects, spontaneous abortion, Preterm Delivery, and Small for Gestational Age Infants. *Vaccine* 2013;31(44):5026-32.
31. **Bakhireva LN**, Leeman L, Savich RD, Cano S, Gutierrez H, Savage DD, Rayburn WF. The Validity of Phosphatidylethanol in Dried Blood Spots of Newborns for the Identification of Prenatal Alcohol Exposure. *Alcohol Clin Exp Res.* 2014;38:1078-85.
32. Kreitinger C, Gutierrez H, Hamidovic A, Schmitt C, Sarangarm P, Rayburn WF, Leeman L, **Bakhireva LN**. The Effect of Prenatal Alcohol Co-Exposure on Neonatal Abstinence Syndrome in Infants Born to Mothers in Opioid Maintenance Treatment. *J Matern Fetal Neonatal Med.* 2015 Mar 23:1-6. [Epub ahead of print]
33. **Bakhireva LN**, Lowe JR, Gutierrez HL, Stephen JM. Ethanol, Neurodevelopment, Infant and Child Health (ENRICH) Prospective Cohort: Study Design Considerations. *Advances in Pediatric Research.* 2015; 2:10. <http://www.apr-journal.com/archives/360>
34. Garrison L, Leeman L, Savich, RD, Gutierrez H, Rayburn WF, **Bakhireva LN**. Fetal Growth Outcomes in a Cohort of Polydrug- and Opioid-Dependent Patients. *J Reprod Med,* 2016;61:311-319.*
*Selected as Feature Article of July-August 2016 issue;
35. Gutierrez HL, Hund L, Shrestha S, Rayburn WF, Leeman L, Savage DD, **Bakhireva LN**. Ethylglucuronide in Maternal Hair as a Biomarker of Prenatal Alcohol Exposure. *Alcohol.* 2015; 49:617-23 NIHMSID 709961
36. Garg M, Garrison L, Leeman L, Hamidovic A, Borrego M, Rayburn WF, **Bakhireva LN**. Validity of Self-Reported Drug Use Information among Pregnant Women. *Maternal and Child Health Journal.* 2016 Jan;20(1):41-7.
37. Newsome C, Ryan K, **Bakhireva LN**, Sarangarm P. Stat Pharm: Cultivating Statistical Knowledge in Resident Research. *Am J Health Syst Pharm.* 2016 Apr 1;73(7):434-5
38. **Bakhireva LN**, Berry M, Gutierrez HL, Shrestha S, Schmitt C, Sarangarm D. Stability of Phosphatidylethanol In Dry Blood Spot Cards. *Alcohol and Alcoholism.* 2016 May;51(3):275-80

39. Gardiner AS, Gutierrez HL, Luo L, Davies S, Savage DD, **Bakhireva LN***, Perrone-Bizzozero NI*. Alcohol Use During Pregnancy is Associated with Specific Alterations in microRNA Levels in Maternal Serum. *Alcohol Clin Exp Res*. 2016 Apr;40(4):826-37
*Equal contribution as senior co-authors
40. Bachyrycz A, Shrestha S, Bleske B, Tinker D, **Bakhireva LN**. Opioid Overdose Prevention Through Pharmacy-based Naloxone Prescription Program: Innovations in Healthcare Delivery. *Subst Abus*. 2016 38:55-60
41. Chambers CD, Johnson DL, Xu R, Luo YJ, Louik C, Mitchell AA, Schatz M, Jones KL; OTIS Collaborative Research Group* (***Bakhireva L** listed as an OTIS Collaborative Research Group co-author in the manuscript). Safety of the 2010-11, 2011-12, 2012-13, and 2013-14 seasonal influenza vaccines in pregnancy: Birth defects, spontaneous abortion, preterm delivery, and small for gestational age infants, a study from the cohort arm of VAMPSS. *Vaccine*. 2016 Aug 17;34(37):4443-9.
42. Brown SA, Hall R, Hund L, Gutierrez HL, Hurley T, Holbrook BD, **Bakhireva LN**. A Novel Approach to Prenatal Measurement of the Fetal Frontal Lobe Using Three Dimensional Sonography. *Journal of Reproductive Medicine*. 2017; 62(2).
43. Shrestha S, Jimenez E, Garrison L, Pribis P, Raisch DW, Stephen JM, **Bakhireva LN**. Dietary Intake among Opioid Dependent and Alcohol Using Pregnant Women. *Subst Use Misuse*. 2017 Feb 22:1-10. [Epub ahead of print]
44. Arabyat A, Raisch DW, **Bakhireva L**. Influenza Vaccination for Patients with Chronic Obstructive Pulmonary Disease: Implications for Pharmacists. *Res Social Adm Pharm*. 2017 Feb 24 . [Epub ahead of print]
45. **Bakhireva LN**, Sharkis J, Shrestha S, Miranda-Sohrabji, Williams S, Miranda RC. Prevalence of Prenatal Alcohol Exposure in the State of Texas as Assessed by Phosphatidylethanol in Newborn Dried Blood Spot Specimens. *Alcohol Clin Exp Res*. 2017;41(5):1004-1011.
46. Page K, Leeman L, Bishop S, Cano S, **Bakhireva LN**. Hepatitis C Cascade of Care Among Pregnant Women on Opioid Agonist Pharmacotherapy Attending a Comprehensive Prenatal Program. *Matern Child Health J*. 2017;22:1778-1783.
47. **Bakhireva LN**, Garrison L, Shrestha S, Sharkis J, Miranda R, Rogers K. Challenges of Diagnosing Fetal Alcohol Spectrum Disorders in Foster and Adopted Children. *Alcohol*. 2018 Mar;67:37-43
48. Lowe J, Qeadan F, Leeman L, Shrestha S, Stephen J, **Bakhireva LN**. The Effect of Prenatal Substance Use and Maternal Contingent Responsiveness on Infant Affect. *Early Hum Dev*2017;115:51-59
49. **Bakhireva LN**, Bautista A, Cano S, Shrestha S, Bachyrycz A, Cruz T. Barriers and Facilitators to Dispensing of Intranasal Naloxone by Pharmacists. *Subst Abus*. 2017;1-11
50. Newsome C, Ryan KL, **Bakhireva LN**, Sarangarm P. Breadth of Statistical Training among Pharmacy Residency Programs across the US. *Hospital Pharmacy*. 2017; 53(2).
51. Stephen JM, Flynn L, Kabella D, Schendel M, Cano S, Savage DD, Rayburn WF, Leeman LM, Lowe J, **Bakhireva LN**. Hypersynchrony in MEG spectral power in prospectively-identified 6-month-old infants prenatally exposed to alcohol. *NeuroImage: Clin*. 2018; 17: 826–834.

52. **Bakhireva LN**, Lowe J, Garrison L, Cano S, Leyva Y, Qeadan F, Stephen JM. Role of Caregiver-Reported Outcomes in Identification of Children with Prenatal Alcohol Exposure during the First Year of Life. *Pediatric Res.* 2018; 84(3): 362-370.
53. **Bakhireva LN**, Shrestha S, Garrison L, Leeman L, Rayburn WF, Stephen JM. Prevalence of Alcohol Use in Pregnant Women with Substance Use Disorder. *Drug Alcohol Depend.* 2018;187:305-310.
54. **Bakhireva LN**, Kane M, Bearer C, Bautista A, Jones J, Garrison L, Begay MG, Ozechowski T, Lewis J. Prenatal Alcohol Exposure Prevalence as Measured by Direct Ethanol Metabolites in Meconium in a Native American Tribe of the Southwest. *Birth Defects Res.* 2018;1-9.
55. **Bakhireva LN**, Holbrook B, Shrestha S, Leyva Y, Ashley M, Cano S, Lowe J, Stephen JM, Leeman L. Association between Prenatal Opioid Exposure, Neonatal Opioid Withdrawal Syndrome, and Neurodevelopmental and Behavioral Outcomes at 5-8-months of Age. *Early Hum Dev.* 2018; 128:69-76.
56. Henrie AM, Sather MS, **Bakhireva LN**, Nawarskas JJ, Boardman KD, Huang GD. Impact of Department of Veterans Affairs Cooperative Studies Program Clinical Trials on Practice Guidelines for High Blood Pressure Management. *Contemp Clin Trials Commun.* 2019 Mar; 13: 100313
57. Holbrook BD, Davies S, Cano S, Shrestha S, Jantzie LL, **Bakhireva LN**,[†] Savage DD[†] Altered expression of angiogenesis-related proteins in human placenta as a consequence of maternal drinking during pregnancy. *Birth Defects Res.* 2019; 111(12):749-759.
[†]Equally contributing senior co-authors
58. Chambers CD, Johnson DL, Xu R, Luo Y, Lopez-Jimenez J, Adams MP, Braddock SR, Robinson LK, Vaux K, Lyons Jones K, OTIS Collaborative Research Group* (**Bakhireva L** listed as an OTIS Collaborative Research Group co-author in the manuscript). Birth outcomes in women who have taken adalimumab in pregnancy: A prospective cohort study. *PloS One.* 2019 Oct 18;14(10):e0223603
59. Chambers CD, Johnson D, Xu R, Luo Y, Jones KL; OTIS Collaborative Research Group* (**Bakhireva L** listed as an OTIS Collaborative Research Group co-author in the manuscript). Oseltamivir use in pregnancy: Risk of birth defects, preterm delivery, and small for gestational age infants. *Birth Defects Res.* 2019 Nov 15;111(19):1487-1493.
60. Yonke N, Jimenez EY, Leeman L, Leyva Y, Ortega A, **Bakhireva LN**. Breastfeeding Motivators and Barriers in Women Receiving Medications for Opioid Use Disorder. *Breastfeeding Medicine.* Breastfeed Med. 2019 Nov 6. doi: 10.1089/bfm.2019.0122. [Epub ahead of print]
61. Stephen JM, Shrestha S, Jimenez EY, Williams SM, Ortega, Cano S, Leeman L, **Bakhireva LN**. *Disparities in Breastfeeding Outcomes Among Women with Opioid Use Disorder.* Acta Paediatr 2020 May;109(5):1064-1066.
62. Jantzie LL, Maxwell JR, Newville JC, Yellowhair TR, Kitase Y, Madurai N, Ramachandra S, **Bakhireva LN**, Northington FJ, Gerner G, Tekes A, Milio LA, Brigman JL, Robinson S, Allan A. *Prenatal Opioid Exposure: The Next Neonatal Neuroinflammatory Disease.* Brain Behav Immun. 2019 Nov 22. pii: S0889-1591(19)30875-X. doi: 10.1016/j.bbi.2019.11.007. [Epub ahead of print]
63. **Bakhireva LN**. *Growing Potential and Remaining Uncertainties in Assessing Prenatal Alcohol Exposure in Dry Blood Spots.* Pediatr Res. 2020 Aug;88(2):159-160. doi: 10.1038/s41390-020-0936-0.

64. Beauchamp KG, Lowe J, Schrader RM, Shrestha S, Aragon C, Moss N, Stephen JM, **Bakhireva LN**. Self-regulation and emotional reactivity in infants with prenatal exposure to opioids and alcohol. *Early Hum Dev*, 2020 Sep;148:105119. Epub 2020 Jul 2.
65. **Bakhireva LN**, Nebeker C, Ossorio P, Angal J, Thomason M, Croff JM. Inclusion of American Indians and Alaskan Natives in Large National Studies: Ethical Considerations and Implications for Biospecimen Collection in the HEALThy Brain and Child Development Study. *Adv Res Sci*. In press.
66. Croff JM, Bogdan R, Johnson SB, **Bakhireva LN**. Early Environmental Exposures and Contaminants: A Design Framework for Biospecimen Collection & Analysis for a Prospective National Birth Cohort. Consensus manuscript. *Adv Res Sci*. In press.
67. Beasley LO, Ciciolla L, Jespersen JE, Chiaf AL, Schmidt M, Shreffler KM, Breslin FJ, **Bakhireva LN**, Sanjuan PM, Stephen JM, Coles CD, Chambers CD, Kable JA, Leeman L, Singer LT, Zellner J, Morris AM, Croff JM. Understanding Best Practices in Engaging Pregnant and Postpartum Women At Risk of Substance Use in Longitudinal Research Studies. *Adv Res Sci*. In press
68. **Bakhireva LN**, Leeman L, Roberts M, Rodriguez D, Jacobson S. You Didn't Drink during Pregnancy, Did You? Commentary. *Alc Clin Exp Res*. In press.

Other publications/ creative work:

69. Sarangarm P, D'Angio R, **Bakhireva LN**. Introduction to Statistical Computing for Residents. A 80-page educational booklet with examples, data dictionary and additional electronic resources (practice database), step-by-step instructions in IBM SPSS software with screen shots, practical examples, in-class exercises, and practice assignments. Currently in its 9th edition (revised and updated every year since 2009).
70. **Bakhireva LN** on behalf of the Teratology Society Public Affairs Committee. "To Drink or Not to Drink During Pregnancy: An Update". Healthy Pregnancy: Experts Speak Out. Available at: <http://www.teratology.org/>. Posted August 18, 2014.
71. **Bakhireva LN** and CTSC working group. University of New Mexico CTSC Faculty Mentor Development Program. Video on Informal Mentoring as a part of the Prezi teaching module "Benefits of Informal Mentoring". Available at: <https://youtu.be/GEu8Wm4jwTM>. Published Nov 8th, 2013
72. Curran C on behalf of the Teratology Society Public Affairs Committee (**LN Bakhireva** – co-author). "Member Experts Share Acetaminophen Answers. FAQs on Acetaminophen Use During Pregnancy." Healthy Pregnancy: Experts Speak Out. Available at: <http://www.teratology.org/>. Posted August 18, 2014.
73. **Bakhireva LN**, Cruz T. Collaboration to Enhance Naloxone Distribution in Rural and Underserved Areas (CONsiDER). NIH/NCATS Updates; Nov 13th, 2019. <https://ncats.nih.gov/ctsa/projects/ruralhealth/CONsiDER>

In the News:

74. "Cascade of Care", Michael Haederle, February 26, 2018, <http://hscnews.unm.edu/news/cascade-of-care>
75. "Diagnosing the Tiniest Victims of the Opioid Epidemic", Christina B. Summers, September 13, 2018. <http://hscnews.unm.edu/news/diagnosing-the-tiniest-victims-of-the-opioid-epidemic>
76. "UNM Addressing Opioid Epidemic", Cindy Foster, December 4, 2018. <http://hscnews.unm.edu/news/unm-college-of-pharmacy-leading-a-three-state-coalition-to-address-opioid-epidemic-by-focusing-on-community-pharmacies-in-ruralunderserved-areas>

77. "HSC Promotion Research Video", April 2019.
78. "*The Need to be SURE*", Michael Haederle, April 24, 2019. <http://hscnews.unm.edu/news/the-need-to-be-sure>
79. "*Consider New Mexico: Strategies to reduce opioid Overdose Risks and Educational Outreach in Increase Naloxone Distribution.*" Kkob Radio Interview, May 5th, 2019.
Podcast: post.futurimedia.com/kkobam/playlist/unm-health-hour-5-5-2019-2437.html?smc=13
80. "The Hidden Victims of Substance Use Disorder. UNM Researchers Join Large National Study of Children Exposed to Opioid Drugs Before Birth". Michael Haederle. September 26, 2019.
<http://hscnews.unm.edu/news/the-hidden-victims-of-substance-use-disorder>

PAPERS PRESENTED AT THE SCIENTIFIC MEETINGS/PUBLISHED ABSTRACTS:

International presentations:

1. Thomas AG, **Bakhireva LN**, Brodine SK, Shaffer RA. "Prevalence of Male Circumcision and Its Association With HIV and Sexually Transmitted Infections in a U.S. Navy Population". XV International AIDS Conference. Poster presentation. Bangkok, Thailand, 2004.
2. **Bakhireva LN**, Jones KL, Johnson DL, Macaraeg GR, Chambers CD, the OTIS Research Group. "The Effect of β 2-agonists and Inhaled Corticosteroids Used to Treat Asthma in Pregnancy on Fetal Growth". Teratology Society Annual Meeting. Platform presentation. Vancouver, Canada, 2004. Published: *Birth Defects Res A Clin Mol Teratol* 2004; 70 (5).
3. **Bakhireva LN**, Jones KL, Robinson LK, Riley EP, Mattson SN, Marintcheva G, Chambers CD. "Effective Training of Pediatricians to Diagnose Features of the Fetal Alcohol Syndrome in a Russian Sample". Research Society of Alcoholism Meeting. Platform presentation. Vancouver, Canada, 2004. Published: *Alcohol Clin Exp Res* 2004; 28:42A-42A
4. **Bakhireva LN**, Laughlin GA, Bettencourt R, Barrett-Connor. "Role of Osteoprotegerin and RANKL in Bone and Vascular Calcification". Poster presentation: International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 13th Annual International Meeting. Toronto, Canada, 2008. Published: *Value in Health*. 2008;11:A187-A187
5. **Bakhireva LN**, Gutierrez H, Stephens E, Goff C, Savich RD, Savage DD, Leeman L, Rayburn WF. Methods to Assess Alcohol Use During Pregnancy: Self-Report and Biomarkers. Platform presentation at the 24th European Network of Teratology Information Services (ENTIS), Amsterdam, Netherlands, 2013. Published: *Reproductive Toxicology*. 2013; 37:77-87.
6. J. M. Stephen, L. Flynn, C. Clifford, J. VanMeter, S. Cano, L. Garrison, J. Lowe, **L. N. Bakhireva**. Alterations in resting MEG spectral power in infants prenatally exposed to alcohol. The 20th International Conference on Biomagnetism (BIOMAG2016), October 1-6, 2016; Seoul, Korea.
7. **Bakhireva LN**, Mallawaarachchi I, Shrestha S, Qeadan F, Cano S, Bishop S, Leeman L, Rayburn W, Stephen J, Lowe J. Quality of Maternal Interaction Ameliorates the Effects of Prenatal Alcohol and/or Opioid Exposures on Infant's Emotional Regulation at 6 Month of Age. Platform presentation. FASD International Conference. March 1-4, 2017. Vancouver, Canada.
8. **Bakhireva LN**, Miranda R. MicroRNAs in Peripheral Blood and Umbilical Cord Blood as Biomarkers of Prenatal Exposure to Substances of Abuse and Brain Health. Poster Presentation: XIII European Meeting on Glial Cells in Health and Disease. July 8 – 11, 2017. Edinburgh, UK.

National presentations:

9. **Bakhireva LN**, Barrett-Connor EL, Laughlin GA, Kritz-Silverstein D. "Estrogen Therapy Modifies the Association of Bone Mineral Density with Coronary Artery Calcification in Asymptomatic Postmenopausal Women". 15th Annual Meeting of the North American Menopause Association". Platform presentation. Washington, DC, 2004. Published: *Menopause* 2004; 11(6).
10. **Bakhireva LN**, Jones KL, Chambers CD, OTIS Collaborative Research Group. "Safety of Leukotriene Receptor Antagonists in Pregnancy". Teratology Society Annual Meeting. Platform presentation. Tucson, AZ, 2006. Published: *Birth Defects Res A Clin Mol Teratol* 2006; 76: 314-314
11. Jones KL, Hoyme EH, Robinson LK, del Campo M, **Bakhireva L**, Chambers CD. "Developmental Pathogenesis of Short Palpebral Fissure Length: Correlation of Palpebral Fissure Length and OFC in Children with Normal and Abnormal Brain Development". David W. Smith Workshop on Malformations and Morphogenesis. Lake Arrowhead, CA, 2006.

12. Kfir M, Hull A, Yevtushok L, Onishchenko S, Wertelecki W, **Bakhireva L**, Chambers C, Jones K. "Evaluation of Early Markers of Prenatal Alcohol Exposure". American Institute of Ultrasound in Medicine Annual Convention. Platform presentation. New York City, NY, 2007
13. Jones KL, Hull AD, **Bakhireva LN**, Werteleski WW, Yevtushok L, Sosynuk Z, Shevchenko S, Zharko L, Onischenko S, Drapkina I, Chambers CD. "Fetal Ultrasound Measures as Predictors of Alcohol-Related Physical Features in the Newborn: Preliminary Results". Teratology Society/ OTIS Annual Meeting. Platform presentation. Pittsburg, PA, 2007. Published: *Birth Defects Res A Clin Mol Teratol* 2007;79:373-373
14. **Bakhireva LN**, Schatz M, Jones KL, Tucker CM, Johnson D, Klonoff-Cohen HS, Chambers CD, OTIS Collaborative Research Group. "Evaluation of Disease Severity and Control in Drug Safety Studies". Teratology Society/ OTIS Annual Meeting. Platform presentation. Pittsburg, PA, 2007. Published: *Birth Defects Res A Clin Mol Teratol* 2007;79:445-445
15. **Bakhireva LN**, Tucker CM, Schatz M, Jones KL, Slymen DJ, Klonoff-Cohen HS, Gresham L, Johnson D, Chambers CD, OTIS Collaborative Research Group. Platform presentation: "Asthma Exacerbations During Pregnancy: The Role of Fetal Sex". Teratology Society Annual meeting. Monterey, CA, 2008 Published: *Birth Defects Res A Clin Mol Teratol* 2008; 82;298-298
16. Chambers CD, **Bakhireva LN**. "Predictors of Binge Drinking During Pregnancy Among Women in Ukraine". Poster presentation. American Public Health Association (APHA) meeting. San Diego, CA, 2008.
17. Shainline MR, Robinson SB, Gunter MJ, Carter S, Beaton SJ, Nawarskas J, **Bakhireva LN**. "Sex-Specific Differences In The Protective Effect Of Statins On Skeletal Fractures". Poster presentation: The 2009 HMO Research Network Annual meeting. Danville, PA
18. **Bakhireva LN**, Young B, Phelan S, Rowland A, Sarangarm P, Rayburn WF. "Knowledge and Attitudes towards Medication Use in Pregnancy among Pregnant Women Recruited into the SMART Study in New Mexico". Poster presentation: 2009 Teratology Society Annual Meeting. Rio Grande, Puerto Rico, Published: *Birth Defects Res A Clin Mol Teratol* 2009; 85; 438
19. Young B, Rayburn W, Phelan S, Dalen J, Sarangarm P, Jaiswal P, Schesser C, Forzani K, Cox J, Flores E, Vergara-Blake J, **Bakhireva L**. "Lack of Inquiry about Safety of Medications in Pregnancy Among Latinas: SMART Study Results." Poster presentation: 2009 Teratology Society Annual Meeting. Rio Grande, Puerto Rico, Published: *Birth Defects Res A Clin Mol Teratol* 2009; 85; 419
20. Sarangarm P, Rayburn W, Phelan S, Young BN, Jaiswal P, **Bakhireva LN**. "The Use of Over-the-Counter Medications During Pregnancy Among Immigrants in New Mexico: Results from the SMART Study". Platform presentation: 2009 Organization of Teratology Information Services (OTIS) Annual Meeting. Rio Grande, Puerto Rico Published: *Birth Defects Res A Clin Mol Teratol* 2009; 85; 495
21. **Bakhireva LN**, Young B, Phelan S, Dalen J, Rayburn W. "Periconceptional Risky Drinking and Acculturation among Pregnant Latinas in New Mexico." Poster presentation: 2009 Research Society of Alcoholism Annual Meeting San Antonio, TX. Published: *Alcohol Clin Exp Res* 2009; 33(6):136A
22. Chambers CD, Yevtushok L, **Bakhireva LN**, Prewitt L, Wertelecki WW, Jones KL. "Correlation of Prenatal Alcohol Dose with Physical Features of FASD in Infants Born to Women in Ukraine". San Antonio, TX Poster presentation: 2009 Research Society of Alcoholism Annual Meeting. Published: *Alcohol Clin Exp Res* 2009; 33(6):39A
23. **Bakhireva L**, Shainline MR, Carter S, Robinson SB, Beaton SJ, Nawarskas J, Gunter MJ. "Synergistic Effect of Statins and Postmenopausal Hormone Therapy in Prevention of Skeletal Fractures". Poster presentation: 2009 International Society of Pharmacoepidemiology Annual meeting. Providence, RI. Published: *Pharmacoepidemiology and Drug Safety*. 2009;18:S127-S128
24. P Sarangarm, S Liu, BN Young, A Davis, ST Phelan, J Nawarskas, WF Rayburn, **LN Bakhireva**. "Perception of Teratogenicity among Pregnant Women with Asthma or Diabetes Mellitus". 2010 Teratology Society Annual Meeting. Louisville, KY Published: *Birth Defects Res A Clin Mol Teratol* 2010; 88(5):365.

25. **LN Bakhireva**, P Sarangarm, S Liu, BN Young, A Davis, J Cox, ST Phelan, WF Rayburn, "Prevalence and Predictors of Complementary and Alternative Medicine Products Use among Pregnant Women in New Mexico". Poster presentation: 2010 Teratology Society Annual Meeting. Louisville, KY Published: *Birth Defects Res A Clin Mol Teratol* 2010; 88(5):397.
26. **LN Bakhireva**, BN Young, AS Rowland, J Vergara-Blake, S Cano, E Flores, S Liu, WF Rayburn, ST Phelan. "Risk factors of lead exposure among socially disadvantaged pregnant women in New Mexico". Poster presentation at the Society for Pediatric and Perinatal Epidemiologic Research (SPER) 23rd Annual meeting. June 22, 2010, Seattle, Washington.
27. **L.N. Bakhireva**; B.N. Young; R.D. Savich; S. Zozaya Price; S. Garcia-Cherino; S. Chavez; P. Trujillo Lewis; D.D. Savage; W.F. Rayburn. Methadone Treatment and Illicit Drug Use Do Not Affect Traditional Ethanol Biomarkers Among Pregnant Women. Poster presentation: 2010 Research Society of Alcoholism Annual Meeting. San Antonio, TX Published: *Alcohol Clin Exp Res* 2010; 34(6):101A
28. **L.N. Bakhireva**; B.N. Young; R.D. Savish; S. Zozaya Price, S. Garcia-Cherino, S. Chavez, P. Trujillo Lewis, S.T. Phelan, W.F. Rayburn. Initiation of Prenatal Care Among Patients with a History of Alcohol and Other Substance Use Disorders. Poster presentation: 2010 Research Society of Alcoholism Annual Meeting. San Antonio, TX Published: *Alcohol Clin Exp Res* 2010; 34(6):102A
29. Jaiswal P, Sarangarm P, Young B, Khan N, Dodd M, Phelan S, Rayburn W, **Bakhireva L**. Validity of Self-report with Respect to Prescription Medications among Pregnant women. Poster presentation at the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 15th Annual Meeting (2010). Atlanta, GA
30. **Bakhireva LN**. Difficulties Diagnosing Fetal Alcohol Spectrum Disorders and Confirming Maternal and Fetal Alcohol Exposure: An Epidemiologist's Perspective. Platform presentation: 2011 Teratology Society Annual Meeting. San Diego, CA Published: *Birth Defects Res A Clin Mol Teratol*; 2011; 91:305-310.
31. Naik R, Borrego M, Dodd M, Raisch D, Khan N, **Bakhireva L**, Gupchup G, Cunico L. Impact of the Medicare Part D Coverage Gap on Prescription Drug Utilization and Medication Adherence. Poster presentation at the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 16th Annual Meeting (2011). Baltimore, MD
32. Young BN, Cano S, Price S, Chavez S, Liu S, Savich RD, Annett RD, Savage DD, Rayburn WF, **Bakhireva LN**. The Effect of Alcohol Consumption on Perceived Stress in Pregnant Women on Opiate Maintenance Therapy. Poster presentation: 2011 Research Society of Alcoholism Annual Meeting. Atlanta, GA Published: *Alcohol Clin Exp Res* 2011; 35(6):114A
33. **Bakhireva LN**, Cano S, Artyushkova K, Price S, Chavez S, Mohan SS, Brown LA, Gauthier TW, Savich RD, Rayburn WF, Savage DD. Validity of Ethanol Biomarkers for Identification of Moderate, Intermittent Alcohol Consumption in Polysubstance-using Pregnant Women. Poster presentation: 2011 Research Society of Alcoholism Annual Meeting. Atlanta, GA Published: *Alcohol Clin Exp Res* 2011; 35(6):173A.
34. **Bakhireva LN**, Savich RD, Leeman L, Raisch D, Savage DD, Goff CD, Cano S, Moya D, Wafer M, Annett RD. Feasibility, Acceptability, and Cost of Alcohol Screening in Dried Blood Spots Collected during Routine Newborn Screening. Poster presentation: 2011 Teratology Society Annual Meeting. San Diego, CA. Published: *Birth Defects Res A Clin Mol Teratol*; 2011; 91
35. **LN Bakhireva**; RD Savich; S Cano, C Goff; RD Annett; WF Rayburn; DD Savage. Validity and Feasibility of Neonatal Screening for Prenatal Alcohol Exposure by Measuring Phosphatidylethanol in Dried Blood Spots of a Newborn. Poster presentation: 2011 Research Society of Alcoholism Annual Meeting. Atlanta, GA Published: *Alcohol Clin Exp Res* 2012; 36(6):43A (abstract 0129)
36. SS Mohan, TW Gauthier, M Zavareh, S Cano, LS Brown, **LN Bakhireva**. Fatty Acid Ethyl Esters Show Significant Correlation with In Utero Alcohol Exposure. Poster presentation: 2011 Research Society of Alcoholism Annual Meeting. Atlanta, GA Published: *Alcohol Clin Exp Res* 2012; 36(6):43A (abstract 0131)
37. S Cano; L Robles; WF Rayburn; RD Savich; M Garg; RF Anton; E. Leonard; DD Savage; **LN Bakhireva**. Advanced Gestational Age Increases Serum Carbohydrate Deficient Transferrin Levels in Abstinent

- Pregnant Women. Poster presentation: 2011 Research Society of Alcoholism Annual Meeting. Baltimore, MD Published: *Alcohol Clin Exp Res* 2012; 36(6):44A (abstract 0133)
38. Garg M, Leeman L, Cano S, Wolhert E, Goff C, Rayburn WF, **Bakhireva LN**. Agreement Between Self-Report, Maternal and Newborn Urine Toxicology Screens for Drug Use During Pregnancy. Platform presentation: 2012 Teratology Society Annual Meeting. Tucson, AZ Published: *Birth Defects Res A Clin Mol Teratol*; 2012; 94 (5):329 (abstract 38).
 39. Garg M, Kharat A, Gutierrez H, Wohlert E, Stephens E, Savage D, Leeman L, **Bakhireva L**. The Effect of Concomitant Drug Use on Adverse Perinatal Outcomes in Opioid-Maintenance Patients. Poster presentation: 2013 Teratology Society Annual Meeting. Orlando, FL Published: *Birth Defects Res A Clin Mol Teratol*; 2013; 97 (5):336.
 40. Gardiner AS, **Bakhireva LN**, Rayburn WF, Leeman L, Cano S, Garg M, Savage DD, Perrone-Bizzozero NI. Serum MiRNAs as Novel Biomarkers of Alcohol Consumption in Human Pregnancy. Poster presentation: 2013 Research Society of Alcoholism Annual Meeting. New York, NY Published: *Alcohol Clin Exp Res* 2013; 37:165A
 41. Brennan M, Brown S, Garg M, Savage DD, Rayburn WF, **Bakhireva LN**. Prenatal Ultrasound and Ethanol Biomarkers for Early Identification of Prenatal Alcohol Exposure. Platform presentation: 2013 American Institute of Ultrasound in Medicine (AIUM) Annual Conference. New York, NY
 42. **Bakhireva LN**, Gutierrez H, Stephens E, Goff C, Savich RD, Savage DD, Leeman L, Rayburn WF. Validity of Maternal Alcohol Screening Questionnaires vs. Ethanol Biomarkers. Platform presentation: 2013 Teratology Society Annual Meeting. Orlando, FL Published: *Birth Defects Res A Clin Mol Teratol*; 2013; 97(5):321.
 43. Kreitinger C, Gutierrez H, Hamidovic A, Sarangarm P, Wohlert E, Stephens E, Leeman L, **Bakhireva LN**. Effect of Prenatal Alcohol Co-Exposure and Other Factors on Neonatal Abstinence Syndrome in Infants Born to Opioid-Dependent Mothers. Poster presentation: 2013 *American College of Clinical Pharmacy (ACCP)* annual meeting. Albuquerque, NM Published: *Pharmacotherapy*. 2013; 33(10):e182-e332.
 44. Berry M, Sarangarm D, Schmitt C, Gutierrez H, Shrestha S, Savage DD, **Bakhireva LN**. Feasibility of Confirming Alcohol Consumption from Banked Dry Blood Spot Cards. Poster Presentation: Teratology Society 54th Annual Meeting; Bellevue, WA, 2014. Published: *Birth Defects Research (Part A)*. 2014;100:431.
 45. **Bakhireva LN**, Sarangarm D, Berry M, Gutierrez HL, Shrestha S, Schmitt C, Savage DD. Stability of Phosphatidylethanol in Dry Blood Spot Cards. Poster Presentation: 37th Annual Scientific Meeting of the Research Society on Alcoholism. Bellevue, WA Published: *Alcohol Clin Exp Res* 2014;38:34A (abstract: 0133).
 46. Davis S, Gardiner AS, Gutierrez H, **Bakhireva LN**, Perrone-Bizzozero NI, Savage DD. Impact of Maternal Drinking During Pregnancy on the Levels of Serum MicroRNAs in Rats and Humans. Poster Presentation: 37th Annual Scientific Meeting of the Research Society on Alcoholism. Bellevue, WA Published: *Alcohol Clin Exp Res* 2014;38:34A (abstract: 0131).
 47. Gutierrez HL, Rayburn WF, Savage DD, **Bakhireva LN**. Validity of Ethyl Glucuronide in Maternal Hair as a Biomarker of Prenatal Alcohol Exposure. Poster Presentation: 37th Annual Scientific Meeting of the Research Society on Alcoholism. Bellevue, WA Published: *Alcohol Clin Exp Res* 2014;38:32A (abstract: 01).
 48. Rogers K, Garrison L, Shrestha S, Sharkis J, Davies L, Miranda R, **Bakhireva LN**. Fetal Alcohol Spectrum Disorder Surveillance Data in Northwest Texas. Poster Presentation: 38th Annual Scientific Meeting of the Research Society on Alcoholism. San Antonio, TX Published: *Alcohol Clin Exp Res* 2015; Vol. 39, No. 6 (abstract 138).
 49. Bautista A, Lewis J, Schmitt C, Gutierrez HL, Cajero M, Bearer C, Kane MA, Jones JW, Li F, **Bakhireva LN**. Prevalence of Prenatal Alcohol Exposure in the Navajo Birth Cohort as Assessed by Self-report and

Meconium Biomarkers. Poster Presentation: 38th Annual Scientific Meeting of the Research Society on Alcoholism. San Antonio, TX Published: *Alcohol Clin Exp Res* 2015; Vol. 39, No. 6 (abstract 860).

50. Gardiner AS, Gutierrez H, Luo L, Savies S, Savage DD, Bakhireva L, Perrone-Bizzozero NI. Alterations in microRNAs in Maternal Serum by Alcohol Use During Pregnancy Suggest Biomarker Potential of These Small RNAs. Poster Presentation: 38th Annual Scientific Meeting of the Research Society on Alcoholism. San Antonio, TX Published: *Alcohol Clin Exp Res* 2015; Vol. 39, No. 6 (abstract 128).
51. Shrestha S, Gutierrez HL, Garrison L, Pribis P, Stephen JM, **Bakhireva LN**. Nutritional imbalance in pregnant woman on opioid maintenance therapy. Poster presentation at the 28th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research. 2015 Denver, Colorado
52. Bachyrycz A, Shrestha S, Shah D, Tinker D, **Bakhireva LN**. Naloxone Pharmacist Prescriptive Authority Program: Early Successes with Prescribing Naloxone Rescue Kits in New Mexico. Poster presentation. 2016 American College of Clinical Pharmacy (ACCP) annual meeting. San Francisco, CA.
53. Stephen JM, Flynn L, Van Meter J, Lowe J, **Bakhireva LN**. Effects of Opioid Maintenance Therapy on Infant Brain Development. Podium presentation. 2016 Teratology Society Annual Meeting. San Antonio, TX.
54. Holbrook BD, Bishop S, Williams S, Cano S, Davies S, **Bakhireva LN***, Savage DD*. Altered Expression of Placental Proteins Related to Angiogenesis in Pregnancies Exposed to Alcohol. Podium presentation. 2016 Teratology Society Annual Meeting. San Antonio, TX. *equally contributing senior co-authors
55. Shrestha S, Jimenez EY, Stephen JM, **Bakhireva LN**. Folate, Iron and Choline Intake in Pregnant Women with Substance Use Disorders. Podium presentation. 2016 Teratology Society Annual Meeting. San Antonio, TX.
56. S Cano; I Mallawaarachchi; S Bishop; L Leeman; W Rayburn; D Savage; J Stephen; **L Bakhireva**. Phosphatidylethanol in Newborn Blood Spots as a Biomarker of Prenatal Alcohol Exposure: What is a Cut-Off? Poster Presentation. Research Society on Alcoholism Annual Meeting. New Orleans, LA June 25-29, 2016
57. S Bishop, S Williams, L Garrison, J Sharkis, L Davies, R Miranda, **LN Bakhireva**. Feasibility of Estimating Prenatal Alcohol Exposure from Residual Newborn Screening Specimens. Platform Presentation. FASD Study Group & Research Society on Alcoholism Annual Meetings. New Orleans, LA. June 25-29, 2016
58. JM Stephen, L Flynn, C Clifford, J VanMeter, S Cano, L Garrison, J Lowe, **LN Bakhireva**. Alterations in Resting MEG Spectral Power in Infants Prenatally Exposed to Alcohol. Research Society on Alcoholism Annual Meeting. New Orleans, LA June 25-29, 2016
59. Bishop S, Cano C, Leeman L, Page K, **LN Bakhireva**. Hepatitis C Cascade of Care among Opioid-dependent Pregnant Women. Poster presentation. American Public Health Association 2016 Annual Meeting. October 31 - November 02, 2016. Denver, CO
60. Bautista A, Cano S, Shrestha S, Bachyrycz A, Cruz TH, **Bakhireva LN**. Barriers and Facilitators to Pharmacist Prescriptive Authority for Naloxone. Podium presentation. American Public Health Association 2016 Annual Meeting. October 31 - November 02, 2016. Denver, CO
61. **Bakhireva LN**, Bautista A, Bachyrycz A, Shrestha S, Cano C, Cruz T. Predictors to Intranasal Naloxone Dispensing by New Mexico Community Pharmacists. Poster presentation. Collaborative Perspectives on Addiction Annual Meeting. March 24-25, Albuquerque, NM
62. **Bakhireva, LN**. Introduction: Methodological challenges of evaluating the effect of multiple exposures. Platform presentation. Platform presentation. Teratology Society, OTIS, and DNTS Exchange Symposium, Teratology Society 57th Annual Meeting, June 24-27, 2017, Denver, CO
63. Cano S, Garrison L, Lowe J, Leeman L, Rayburn WF, Stephen JM, **Bakhireva LN**. Neurodevelopmental Indices of Prenatal Alcohol Exposure Observed in 6-Month-Old Infants. Poster Presentation: 40th Annual Scientific Meeting of the Research Society on Alcoholism. Denver, CO. Published: *Alcohol Clin Exp Res* 2017; vol 41, issue S1, abstract 161

64. Shrestha S, Williams S, Miranda R, **Bakhireva LN**. Regional Differences and Correlates of Prevalence of Prenatal Alcohol Exposure in Texas Assessed by PEth in Newborn Dry Blood Spots. Platform Presentation: Teratology Society 57th Annual Meeting, June 24-27, 2017, Denver, CO
65. Shrestha S, Sharkis J, Miranda-Shorabji T, Davies L, Garrison L, Williams L, Miranda R, & **Bakhireva LN**. Regional Differences and Correlated of Prevalence of Prenatal Alcohol Exposure in Texas as Assessed by PEth in Newborn Dry Blood Spots. Platform Presentation: 2017 Annual Meeting of the Fetal Alcohol Spectrum Disorder Study Group, Research Society on Alcoholism, June 24 2017, Denver, CO.
66. A. Bautista, J. Lewis, J.W. Jones, L. Garrison, C. Bearer, M.A. Kane, **L.N. Bakhireva**. Analysis of Meconium Metabolites FAEE, ETG, ETS in the Native American Tribal Community of the Southwest. Poster Presentation: 40th Annual Scientific Meeting of the Research Society on Alcoholism. Denver, CO. Published: *Alcohol Clin Exp Res* 2017; vol 41, issue S1, abstract 807
67. E. Y. Jimenez, N. Yonke, L. Leeman, S. Shrestha, S. Cano, L. Garrison, S. Williams, J. Stephen, **L. Bakhireva**. Disparities in Breastfeeding Outcomes Between Women Undergoing Medication-Assisted Treatment (MAT) for Substance Use Disorder (SUD) and Abstaining Controls. Poster Presentation. Experimental Biology Conference. Chicago, IL. Published: *FASEB J* 2017; vol 31, no. 1 supplement, p. 650.16
68. J.M. Stephen, L. Flynn, D. Kabella, S. Cano, D. Savage, W. Rayburn, L. Leeman, J.R. Lowe, **L.N. Bakhireva**. Altered MU Rhythm Reactivity in 6-Month-Old Infants Prenatally Exposed to Alcohol and Opioid Maintenance Therapy. Poster Presentation: 40th Annual Scientific Meeting of the Research Society on Alcoholism. Denver, CO. Published: *Alcohol Clin Exp Res* 2017; vol 41, issue S1, abstract 806
69. Davies, S, B.D. Holbrook, S. Bishop, S. Williams, S. Cano, L.N. Bakhireva and D.D. Savage. Altered Expression of Angiogenesis-Related Proteins in Human Placenta As A Consequence of Maternal Drinking During Pregnancy. Poster Presentation. Research Society on Alcoholism 2017 Meeting. Denver, CO
70. M. Ashley, B. Holbrook, S. Cano, J. Lowe, J M. Stephen, F Qeadan, Y Leyva, W Rayburn, L Leeman, LN. Bakhireva. Effect of Neonatal Abstinence Syndrome on Neurodevelopmental Outcomes at Six Months of Age in Infants Born to Women on Medication-Assisted Treatment for Opioid Use Disorder. Poster Presentation. Teratology Society Annual Meeting June 24-27, 2017. Denver, CO
71. Newsome C, Ryan K, Sarangarm P, **Bakhireva L**. National survey of pharmacy residencies' statistical training practices. American Association of Health-System Pharmacists 2017 Midyear Clinical Meeting. Orlando, FL.
72. Stephen JM, Flynn L, Kabella D, Cano S, Lowe JR, **Bakhireva LN**. Alpha Asymmetry and the Association with Positive and Negative Affect in 6-Month-old Infants with Prenatal Alcohol Exposure. Poster Presentation: 41th Annual Scientific Meeting of the Research Society on Alcoholism. June, 2018. San Diego, CA.
73. **Bakhireva LN**, Leyva Y, Qeadan F, Shrestha S, Cano S, Flynn L, Kabella D, Lowe J, Stephen JM. Effect of Light-to-Moderate Prenatal Alcohol Exposure on Infant Growth Trajectory During the First 6 Months of Life. Poster Presentation: 41th Annual Scientific Meeting of the Research Society on Alcoholism. June, 2018. San Diego, CA.
74. Gardiner AS, Davies S, Caldwell KK, Allan AM, Savage DD, Cano S, Garrison L, **Bakhireva LN**, Perrone-Bizzozero NI. 2018. Using Data from Animal Models of Prenatal Alcohol Exposure to Inform Circulating microRNA Studies of Pregnant Women who Consume Alcohol. Poster Presentation: 41th Annual Scientific Meeting of the Research Society on Alcoholism. June, 2018. San Diego, CA.
75. Williams S, Shrestha S, Garrison L, Leeman L, Rayburn W, Stephen JM, **Bakhireva LN**. Prevalence of Alcohol Use in Pregnant Women with Substance Use Disorder. Poster Presentation: 41st Annual Scientific Meeting of the Research Society on Alcoholism. San Diego, CA. Published: *Alcohol Clin Exp Res* 2018; vol 42, issue S1, abstract 491

76. Garrison L*, Ortega A*, Baca A, Cano S, Jimenez E, Yonke N, Leeman L, **Bakhireva LN**. Removing Barriers to Breastfeeding in Opioid Using Women: RIBBON Study. Society for Pediatric Epidemiological Research Annual Meeting, Baltimore, MD, June 19, 2018.
77. Garrison L*, Parshall C*, Williams S, Ortega A, Cano S, Jimenez E, Stephen JM, **Bakhireva LN**. Feeding Difficulties in 20-Month-Old Children with Prenatal Alcohol Exposure (PAE) Compared to Children Without PAE. Society for Pediatric Epidemiological Research Annual Meeting, Baltimore, MD, June 19, 2018.
78. JM Stephen, L. Flynn, D Kabella, S Cano, JR Lowe, **LN Bakhireva**. Alpha asymmetry and the association with positive and negative affect in 6-month-old infants with prenatal alcohol exposure. Poster presentation 21st International Conference on Biomagnetism, Philadelphia, PA, August 26-30, 2018.
79. Maxwell J, Yellowhair TR, Newville J, Shrock CL, Allan AM, **Bakhireva LN**, Nortington FJ, Robinson S, Jantzie LL. Prenatal opioid exposure results in decreased myelination and facilitates a proinflammatory microenvironment in offspring. Society for Neuroscience 48th Annual Meeting. November 2018. San Diego, CA.
80. Qamruddin A, Lowe J, Murray-Krezan C, **Bakhireva LN**, Stephens J, Rieger R, Cano S. Impact of Maternal Verbal Scaffolding on Language and Cognitive Development in Toddlers with Prenatal Polysubstance Exposure. Poster Presentation: 2019 Western Medical Research Conference. January 25, 2019. Carmel, CA.
81. Rodriguez D, Stopka T, Palombi L, Cruz T, Blue H, Chui K, Green T, Bachyrycz A, Rhyne R, **Bakhireva LN**. A multi-state Collaboration to Enhance Pharmacy-based Naloxone Dispensing in Rural and Underserved Areas (CONSiDER). Abstract accepted for poster presentation in American Pharmacist Association 2019 Annual Meeting, Seattle, WA, March 22-25.
82. Shrestha S, **Bakhireva LN**. Healthcare Utilization in Infants Diagnosed with Neonatal Abstinence Syndrome. Abstract accepted for poster presentation in American Pharmacist Association 2019 Annual Meeting, Seattle, WA, March 22-25.
83. Qamruddin A, Lowe J, Murray-Krezan C, **Bakhireva LN**, Stephens J, Rieger R, Cano S. Impact of Maternal Verbal Scaffolding on Language and Cognitive Development in Toddlers with Prenatal Polysubstance Exposure and Unexposed Controls. Abstract accepted for poster presentation in The Pediatric Academic Societies (PAS) 2019 Meeting. April 27-30, 2019. Baltimore, MD.
84. **Bakhireva LN**, Leyva Y, Shrestha S, Leeman L, Stephen JM, Page K. Prevalence of Marijuana Use in Pregnant Women with Concurrent Opioid Use Disorder or Alcohol Use in Pregnancy: Results from the ENRICH Cohort. Platform presentation at the College on Problems on Drug Dependence (CPDD) 81st annual meeting; San Antonio, TX; June 15-19, 2019
85. Beauchamp KG, Shrestha S, Garrison LM, Lowe J, Stephen J, **Bakhireva LN**. The Effects of Prenatal on Postnatal Maternal Psychological Well-Being in Substance Using Populations. Platform presentation at the 59th Annual Meeting of the Teratology Society; June 22-26, 2019; San Diego, CA.
86. Shrestha S, Rodriguez D, Leeman L, Stephen JM, **Bakhireva LN**. Utility of Maternal and Infant Phosphatidylethanol in Assessing Late Pregnancy Alcohol Exposure. Abstract accepted for poster presentation in Research Society on Alcoholism 2019 Annual Scientific Meeting, Minneapolis, MN, June 22-26.
87. Mahnke AH, Leeman L, Luo L, Abdelfattah A, Shrestha S, Miranda RC, **Bakhireva LN**. Neonatal Cord Blood miRNAs as Biomarkers of Neonatal Opioid Withdrawal Syndrome. Platform presentation at the 59th Annual Meeting of the Teratology Society; June 22-26, 2019; San Diego, CA.

88. J.M. Stephen, D. Kabella, L. Flynn, S. Cano, R. Rieger, J. Lowe, L. Leeman, **L.N. Bakhireva**. Neurophysiological measures at 6 months of age predict Bayley performance in 20-month-old infants exposed to alcohol prenatally. *Alcoholism: Clinical and Experimental Research (ACER) v43s1: RSA 2019 Meeting Abstract*, 48A
89. Carmody M, Murray-Krezan C, Shrestha S, Jacobson S, **Bakhireva LN**. Differential Sensitivity of Measures of Self-Reported Binge Drinking during Pregnancy. Meeting abstract 445367. Poster presentation at the APHA's 2019 Annual Meeting and Exp; Nov. 2 - Nov. 6, 2019. Philadelphia, PA.
90. Sparks A, Beauchamp K, Herman M, Salisbury A, **Bakhireva LN**. Prevalence of psychiatric disorders and associated selective serotonin reuptake inhibitor, serotonin-norepinephrine reuptake inhibitor, and hydroxyzine use in pregnant women with opioid use disorder. ASHP Mid-year Annual Meeting. December 9th, 2019. Las Vegas, NV
91. Ruyak S, **Bakhireva L.**, Milligan E, Noor S, Enriquez-Martinez L, Rodriguez D, Sun M. *Functional Responses of Human Placental Tissue to Opioids: TLR4 Signaling*. Western Institute of Nursing Research, 20/20 and Beyond: Envisioning the Future of Nursing Research, Practice, and Education. Portland, Oregon. April 15-18, 2020.
92. JR Maxwell, S Ruyak, **M Roberts**, Xingya Ma, K Beauchamp, D Rodriguez, L Enriquez Marquez, **LN Bakhireva**. *Moderate Prenatal Alcohol Exposure, Maternal Stress and Infant Behavioral Reactivity and Regulation*. Poster presentation at Research Society on Alcoholism 43rd Annual Scientific Meeting, June 20-24, 2020.
93. D Rodriguez, M Roberts, X Ma, L Enriquez Marquez, L Stacy, S Ruyak, K G Beauchamp, P Maclean, **L N Bakhireva**. *Maternal Distress, Social Support, and Alcohol Use in Pregnancy*. Poster presentation at Research Society on Alcoholism 43rd Annual Scientific Meeting, June 20-24, 2020.
94. E.R. Solomon, E. Milligan, D. Rodriguez, **L.N. Bakhireva**, A.A. Allan. *Effect of Prenatal Alcohol Exposure on Programming of Fetal HPA Axis by Measuring Key Stress Markers in Human Placenta and Umbilical Cord Blood*. Poster presentation at Research Society on Alcoholism 43rd Annual Scientific Meeting, June 20-24, 2020.
95. JR Maxwell, **M Roberts**, Xingya Ma, D Rodriguez, L Enriquez Marquez, **LN Bakhireva**, J Stephen. *Moderate Prenatal Alcohol Exposure and Infant Biobehavioral Measures Following Birth*. Poster presentation at the Society's for Birth Defects Research and Prevention 60th Annual (virtual) Meeting. June 27-July 1, 2020.
96. LN Bakhireva, S Ruyak, M Roberts, D. Rodriguez, L Leeman, J Stephen, J Maxwell. *Multi-modal Assessment of Stress-Reactivity and Self-regulation in the Newborn Period in a Prospective Cohort Study of Moderate Alcohol Exposure*. Platform presentation at the Society's for Birth Defects Research and Prevention 60th Annual (virtual) Meeting. June 27-July 1, 2020.
97. Lana Beasley, Amanda Morris, Jens Jespersen, Mallory Schmidt, Ashleigh Chiaf, **Ludmila Bakhireva**, Julia Stephen, Claire Coles, Julie Kable, Christina Chambers, Lynn Singer, Julie Croff. A Qualitative Approach to Understanding Familial Changes Among High and Low Risk Mothers During COVID-19. Platform presentation at 2021 SRCD Virtual Biennial Meeting symposium "Understanding the Impact of COVID-19 on Parenting Young Children: Research Collaborations and International Perspectives"; April 7-9, 2021.
98. *Chiaf, A.L., Croff, J.M., Morris, A.S., Beasley, L.O., Jespersen, J.E., Schmidt, M., Bakhireva, L.N., Stephen, J.M., Coles, C.D., Kable, J.A., Chambers, C.D., & Singer, L.T. (2021, April). Maternal Health Behaviors due to Childcare and Schooling Changes in Response to COVID-19. 2021 Biennial Meeting of the Society for Research in Child Development (poster presentation)*

99. Beasley, L.O., Morris, A.S., Jespersen, J.E., Schmidt, M., Chiaf, A.L., **Bakhireva, L.N.**, Stephen, J.M., Coles, C.D., Kable, J.A., Chambers, C.D., Singer, L.T., & Croff, J.M. (2021, April). A Qualitative Approach to Understanding Familial Changes Among High and Low Risk Mothers During COVID-19. A.M. Platform presentation at the symposium, *Understanding the Impact of COVID-19 on Parenting Young Children: Research Collaborations and International Perspectives*, conducted at the 2021 Biennial Meeting of the Society for Research in Child Development. April 7-9, 2021.

Regional, state, local presentations:

100. **Bakhireva L**, Barrett-Connor E, Kritz-Silverstein D, Morton D. “*Predictors of Bone Mineral Density Change in Men: the Rancho Bernardo Study*”. Platform presentation. San Diego Epidemiology Research Exchange. University of California, San Diego. April 25th, 2003.
101. **Bakhireva LN**, Barrett-Connor EL, Laughlin GA, Kritz-Silverstein D. “*Is Osteoporosis Associated with Coronary Artery Calcification?*”. San Diego Epidemiology Research Exchange. Platform presentation. San Diego, CA, 2004.
102. Young B, Rayburn WF, Phelan S, Dalen J, Sarangarm P, Jaiswal P, Schesser C, Forzani K, Cox J, Flores E, Vergara-Blake J, **Bakhireva LN**. “*Lack of Inquiry about Safety of Medications in Pregnancy among Latinas: SMART Study Results.*” Poster presentation: 2009 New Mexico Public Health Association (NMPHS) Annual Meeting.
103. Young BN, Cano S, Price S, Gregory-Goff C, Savich RD, Savage SS, Rayburn WF, **Bakhireva LN**. Methods to Evaluate Validity of Ethanol Biomarkers in Pregnant Women and Newborns. Platform presentation at the Texas Research Society of Alcoholism annual meeting. February, 2011
104. Bautista A, **Bakhireva LN**. Socioeconomic and Racial/Ethnic Disparities in Mental Health-Related Quality of Life among Cancer Patients in New Mexico. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. Albuquerque, NM
105. Omeh A, Roberts M, **Bakhireva LN**. An Association between Depression and Risky Sexual Behavior among High School Students in the United States. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. Albuquerque, NM
106. Chen C, Roberts M, **Bakhireva LN**. Preliminary results for an Association between Alcohol Consumption and Cognitive Function in Elderly Patients with Diabetes. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. Albuquerque, NM
107. Shrestha S, Bachyrycz A, Shah D, Tinker D, **Bakhireva LN**. Pharmacist Naloxone Prescriptive authority: Analysis of Naloxone Prescription in Urban and Rural New Mexico. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. Albuquerque, NM
108. Shrestha S, **Bakhireva LN**. The Association between Depressive Disorders and Health-Related Modifiable Risk Factors in Patients with Diabetes. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. Albuquerque, NM
109. Murrietta A, Roberts M, **Bakhireva LN**. Social Support, ethnicity, and Physical Activity during Pregnancy: Information from the 2009 BRFSS. Poster presentation at the UNM CoP 2015 Annual Research and Scholarship Day. Albuquerque, NM
110. A. Bautista, **LN. Bakhireva**, S. Cano, S. Shrestha, A. Bachyrycz, T. Cruz. Pharmacists Role in Preventive Healthcare Services Including Measures to Address Opioid Abuse Epidemic. Platform presentation; New Mexico Public Health Association Annual Conference. April 5-6, 2017. Albuquerque, NM
111. **Bakhireva LN**, Bautista A, Cano S, Shrestha S, Bachyrycz A, Cruz TH. Barriers and Facilitators to Dispensing of Intranasal Naloxone by Pharmacists in New Mexico. Western Pharmacoeconomics and Outcomes Research Conference. Platform presentation. October 5-6, 2017. Albuquerque, NM
112. Shrestha S, **Bakhireva LN**. Assessment of Pharmacists Perceived Barriers and Facilitators to Naloxone Dispensing in New Mexico Using Rank Algorithms. Western Pharmacoeconomics and Outcomes Research Conference. Poster presentation. October 5-6, 2017. Albuquerque, NM

INVITED PRESENTATIONS (Invited speaker at the local, national, and international meetings):

International invited presentations:

- 10/17/11 The 37th International Medical Advisory Group (IMAG) conference hosted by the Alcohol Beverage Medical Research Foundation (ABMRF).
"Improved Detection of Maternal Drinking During Pregnancy". Montreal, Canada.
- 04/10/13 The 24th European Network of Teratology Information Services (ENTIS)
"Methods to Assess Alcohol Use During Pregnancy: Self-Report and Biomarkers"
Amsterdam, Netherlands, 2013.

National invited presentations:

- 06/25/11 24th International Conference of the Organization of Teratology Information Specialists (OTIS).
Platform presentation *"Biomarkers of Fetal Alcohol Exposure and Fetal Alcohol Effects"*. San Diego, CA
- 06/26/11 Teratology Society F. Clarke Fraser New Investigator Award and Platform Presentation:
"Difficulties Diagnosing Fetal Alcohol Spectrum Disorders and Confirming Maternal and Fetal Alcohol Exposure: An Epidemiologist's Perspective". San Diego, CA
- 03/27/14 University of California, San Diego; Epidemiology Department Research Seminar
"Biomarkers of Prenatal Alcohol Exposure: Promises and Challenges".
- 05/31/2017 University of Rochester, MotherToBaby UR School of Medicine Seminar
"Early Indices of Prenatal Alcohol Exposure: Results from ENRICH Prospective Birth Cohort in New Mexico"
- 11/17/2017 Brown University Pediatrics Pediatric Research Colloquium/Grant Rounds
"Can Supportive Parental Strategies Ameliorate the Effect of Prenatal Alcohol and/or Opioid Exposures on Infant Affect: Results from ENRICH Cohort in New Mexico"
- 05/20 NIH HEALTHy Brain and Child Development (HBCD) Meeting
"Biospecimen Working Group Report"
- 11/17/20 NIH HEALTHy Brain and Child Development (HBCD) Fall PI Meeting
Chambers, Bakhireva, Coles, Croff, Singer
"Planning for the HEALTHy Early Development Study"

Regional, local invited presentations:

- 01/2009 University of New Mexico Signature Program for Child Health Research, 3x5x5 event.
Platform presentation *"Quality of Intimate Relationships, Paternal Drinking Habits, and Acculturation as Predictors of Maternal Drinking in Pregnancy"*
- 09/23/09 University of New Mexico College of Pharmacy, Dean's Speakers Series.
Oral presentation *"The Clinical and Ethical Dilemma: Treat or Not to Treat During Pregnancy"*.

- 11/04/09 University of New Mexico Psychiatry Department, Seminar Series for Psychiatry Residents. Oral presentation "*The Management of Depression During Pregnancy*".
- 11/09/09 University of New Mexico College of Pharmacy. Presentation at the Department of Pharmaceutical Sciences seminar, entitled "*Search for an Ideal Biomarker of Prenatal Alcohol Exposure*".
- 01/27/10 University of New Mexico College of Pharmacy. Presentation at the Department of Pharmacy Practice seminar, entitled "*Biomarkers of Alcohol Exposure in Pregnant Women*"
- 02/01/10 University of New Mexico Department of Internal Medicine. Presentation at the Division of Epidemiology seminar, entitled "*Can we accurately assess moderate alcohol consumption?*"
- 04/17/11 University of New Mexico College of Pharmacy, Pharmacology and Toxicology Seminar Series. "*Assessment of environmental exposures in pregnant women and their newborn children: New Mexico studies*".
- 07/15/14 University of New Mexico Department of Pediatrics, Hot Topics Presentation "*Identification of Prenatal Alcohol Exposure in the Newborns: Beyond Meconium Testing*"
- 09/29/14 University of New Mexico Department of Pharmaceutical Sciences Seminar "*UNM Studies on Validity of Direct Ethanol Metabolites*"
- 10/01/15 New Mexico FASD Research & Outreach Day "*Alcohol Use During Pregnancy: Much Higher Prevalence Than Previously Thought?*"
- 10/05/15 New Mexico Society of Health-System Pharmacist, 2015 Balloon Fiesta Symposium "*Study Design Considerations in Clinical Pharmacy*"
- 12/14/2017 University of New Mexico College of Pharmacy PPAS Seminar "*Preventing and Reducing Opioid Overdose: Striving for Research and Service Excellence at the UNM College of Pharmacy*"
- 02/2019 UNM College of Pharmacy, Department of Pharmaceutical Sciences Research Seminar "*Tackling the Opioid Epidemic with Clinical and Translational Research in New Mexico*"
- 02/28/19 New Mexico Department of Health Quarterly Epidemiology Meeting "*Prenatal Opioid Exposure, NOWS, and Neurodevelopmental Outcomes Later in Life: Results from the ENRICH-1 Study*"
- 02/28/19 New Mexico Department of Health Quarterly Epidemiology Meeting. "*A Novel Approach to Enhance Pharmacy-Based Naloxone Distribution in Rural and Underserved Areas: Results from the CONSiDER Study*"
- 03/19/19 SAMHSA and HRSA Visit to UNM-HSC "*Addressing Opioid Crisis through Translational Research in Vulnerable Populations*"
- 05/2019 UNM Department of Obstetrics & Gynecology, Maternal-Fetal Medicine Seminar "*Fetal and infant Outcomes Associated with Prenatal Alcohol and Opioid Exposures*"
- 05/21/19 UNM-HSC Clinical and Translational Sciences Center Executive Planning Meeting "*HEAL Initiative: HEALthy Brain and Child Development Study (HEALthy BCD)*"

- 07/09/19 UNM-HSC Clinical and Translational Sciences Center: NIH Site Visit
"Recent Innovations"
- 08/28/19 2019 Congressional and Legislative Staff Academy, University of New Mexico
"Brain and Behavioral Health Institute"
- 02/20 UNM-HSC Clinical and Translational Sciences Center, Seminar
"The SURE Center, BBHI, and Ongoing Studies"
- 03/20 UNM College of Pharmacy, Research Day
"The Substance Use Research & Education (SURE) Center"
- 05/20 College of Pharmacy, Department of Pharmacy Practice and Administrative Sciences, Faculty Meeting
"Overview of BBHI and SURE Center Activities & Engagement of the CoP Faculty"