CURRICULUM VITAE

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Education

Ph.D.:	Bioinformatics University of Michigan Ann Arbor, Michigan, 2006~2010
M.S.:	Bioinformatics Indiana University Bloomington, Indiana, 2004~2006
B.S.:	Life Science Pohang University of Science and Technology (POSTECH) Pohang, Korea, 1994~2001

Work/research Experience

Feb.2001 to Oct.2002	Research Scientist Bioinformatics team, ISTECH Inc., Korea
Jun.2003 to Jun.2004	Part-time Research Scientist Bioinformatics team, ISTECH Inc., Korea
Feb. 2013 to Apr. 2013	ORISE Visiting Research Fellow US Food and Drug Administration (FDA), Silver Spring, Maryland
Jul. 2010 to Jan. 2015	Post-doctoral Research Fellow University of Michigan, Ann Arbor
Jan. 2015 to current	Assistant Professor University of North Dakota
Apr. 2017 to current	Research Without Compensation (WOC) Scientist Department of Veterans Affairs (VA), Fargo Hospital
Mar. 2018 to current	Adjunct Research Assistant Professor University of Michigan, Ann Arbor

Research Interests

Computational modeling of diabetic neuropathy
High-throughput omics data analysis
Biomedical literature mining
Systems pharmacology modeling of drug adverse event

Honors and Awards

2011-2014	Juvenile Diabetes Research Foundation Postdoctoral Fellowship Recipient
2010	Rackham Spotlight University of Michigan, Ann Arbor, Michigan
2009-2010	Rackham Pre-Doctoral Fellowship University of Michigan, Ann Arbor, Michigan
2007-2009	Program for Neurology Research and Discovery Scholarship University of Michigan, Ann Arbor, Michigan
2006-2007	Rackham Graduate Fellowship University of Michigan, Ann Arbor, Michigan
2004-2006	Graduate Assistantship Indiana University, Bloomington, Indiana
2001	B.S. graduation with *Honors* POSTECH, Pohang, Korea
1994-2001	6 times of academic excellence award recipient POSTECH, Pohang, Korea

Memberships in Professional Societies

May. 2008 to current	International Society for Computational Biology (ISCB), member
Mar. 2015 to current	American Diabetes Association (ADA), professional member
Feb. 2016 to current	American Society for Pharmacology and Experimental Therapeutics (ASPET), member
Apr. 2017 to current	North Dakota Academy of Sciences (NDAS), member

Review and Referee Work

Editorial Board

Aug. 2015 to current	Review Editor at Frontiers in Cellular and Infection Microbiology
Feb. 2018 to current	Associate Editor at BMC Complementary and Alternative Medicine

Ad-hoc reviewer for journal

2014 Conference of Technologies and Applications of Artificial Intelligence, Acta Psychiatrica Scandinavica, Advances and Applications in Bioinformatics and Chemistry, Bioinformatics, BMC Bioinformatics, BMC Complementary and Alternative Medicines, BMC Endocrine Disorders, BMC Neurology, Computational Biology and Chemistry, Computer Methods and Programs in Biomedicine, Diabetes Therapy, Drug Discovery Today, European Journal of Pharmacology, Evidence-Based Complementary and Alternative Medicine, Frontiers in Cellular and Infection Microbiology, Journal of Diabetes and Complications, Journal of Functional Foods, Journal of Molecular Endocrinology, Journal of Pain Research, Pharmacogenomics, PLOS One, Research Square, Scientific Reports

Ad-hoc reviewer for grants

2016	Diabetic Complications Consortium pilot grant
2016	Department of Defense (DoD) Peer Reviewed Medical Research Program (PRMRP) preliminary reviewer
2016 ~	Early Career Reviewer (ECR) program at the Center for Scientific Review (CSR)
2017	National Science Foundation (NSF) reviewer
2017	DoD PRMRP review panel
2018	DoD PRMPR preliminary reviewer
2018	National Institute of Health CNNT Study Section

Teaching Activities

Courses

Sep. 2004 to Dec. 2004	INFO692, Graduate Capstone Project for Bioinformatics (Associate Instructor, Indiana University)
Jan. 2005 to Apr. 2005	INFO590, Introduction to genomics for non-biology students (Associate Instructor, Indiana University)
Sep. 2005 to Dec. 2005	BIOL519, Bioinformatics Theory and Application (Associate Instructor, Indiana University)
Jan. 2008 to Apr. 2008	BIOINFO 800.006-008, Introduction to Bioinformatics (Graduate Student Instructor, University of Michigan)
Aug. 2016 to Dec. 2016	BMB540, Foundations of Bioinformatics for Biomedical and Biology Graduate Students (University of North Dakota)
Aug. 2017 to Dec. 2017	BIMD514, Bioinformatics (University of North Dakota)

Patient-Centered Learning (PCL) Facilitation

Jan. 2017 to Mar. 2017	PCL Block 3 Facilitation – Class of 2021 (M.D.)
Jan. 2018 to Mar. 2018	PCL Block 3 Facilitation – Class of 2022 (M.D.)

Advising – Post-doctoral fellows

Nov. 2016 to current	Dr. Kai Guo University of North Dakota, Biomedical Sciences
Nov. 2016 to Dec. 2017	Dr. Guillermo de Anda Jauregui (Current: National Institute of Genomic Medicine, Mexico)

Advising – Students

May. 2015 to current	Brett A. McGregor Co-chair of Faculty Advisory Committee (FAC) University of North Dakota, Biomedical Sciences
Nov. 2015 to current	Peter Halcrow (member of FAC) University of North Dakota, Biomedical Sciences
Oct. 2015 to May. 2016	Dakota Krout (advisor) University of North Dakota, Computer Sciences undergraduate

May 2016 to current	Larson Danes (advisor for co-op) University of North Dakota, Computer Sciences undergraduate
Jun. 2016 to current	Derick Thompson (member of FAC) University of North Dakota, Biomedical Sciences
Jun. 2016 to current	Derick Thompson (member of FAC) University of North Dakota, Biomedical Sciences
Jun. 2017 to current	Leo Lakpa (member of FAC) University of North Dakota, Biomedical Sciences
Sep. 2017 to current	Smruthi Rudraraju (member of FAC) University of North Dakota, Biomedical Sciences

Grant

Ongoing

- NIDDK 2R24082841 (PI: Eva Feldman, U of Michigan)
  Role: Co-investigator Total: $214,414 (UND) (4/2017-7/2019)
  Title: Integrated systems biology approach to diabetic microvascular complications
- COBRE Epigenomics and Development and Disease, Pilot Grant
  Role: Co-PI Total: $30,000 (10/2017-05/2019)
  Title: Epigenetic modification of microglial phenotype in Parkinson's Disease
- UND Health Challenge Seed Program (MPIs: Dhasarathy, Hur & Scheidegger)
  Role: Co-PI Total: $50,000 (UND) (2/2018-10/2018)
  Title: Transcription proteins and mRNA splicing: a novel molecular mechanism influencing cancer progression
- NINDS 2R01NS065957-05A1 (PI: Susan Masino, Trinity University)
  Role: Co-investigator Total: $598,686 (UND) (06/2018-04/2022)
  Title: Ketogenic diet and adenosine: epigenetics and Antiepileptogenesis
- UND Post-doctoral Pilot Funding Program (MPIs: Brissette, Dhasarathy & Hur)
  Role: Co-PI Total: $120,000 (UND) (7/2018-6/2020)
  Title: Exploring epithelial-to-mesenchymal transitions in lyme arthritis through a systems approach
- UND Post-doctoral Pilot Funding Program (MPIs: Porter & Hur)
  Role: Co-PI Total: $120,000 (UND) (1/2019-12/2021)
  Title: Alpha-Synuclein-mediated Epigenomic Modification of Microglial Neuroinflammatory Profiles during the Progression of Parkinson's Disease from Early to Advanced Stages

Completed

- Diabetic Complication Consortium (DiaComp), Pilot & Feasibility Grant
  Role: Project PI Total: $89,537 (10/2015-01/2017)
  Title: Comparative Transcriptomics to Identify Key Gene Networks of Diabetic Neuropathy
- Juvenile Diabetes Research Foundation (JDRF), Postdoctoral Research Fellowship
  Role: Project PI Total: $136,620 (03/2011-06/2014)
  Title: Cross-tissue transcriptomics predict diabetic complications
- UND COBRE Epigenomics and Development and Disease, Pilot Grant

Role: Project PI Total: $42,347 (06/2015-05/2016)
Title: RNA-Seq and Comparative Transcriptomics to Identify Key Gene Networks of Diabetic Peripheral Neuropathy

- NIEHS R01ES022030 (PI: Joyce Ohm, Roswell Park Comprehensive Cancer Center)
  Role: Co-investigator Total: $1,552,500 (09/2012-05/2017)
  Title: Environmental toxins and stem cell epigenomic remodeling
- UND Neuroscience COBRE Pilot Grant
  Role: Project PI Total: $40,000 (09/2016-05/2017)
  Title: Cross-center validation study for epigenetic changes associated with epileptogenesis
- UND Post-doctoral Pilot Funding Program
  Role: PI Total: $120,000 (7/2016-06/2018)
  Title: Epigenetics for anti-epileptogenic therapy
  Note: Salary and benefits support for a post-doctoral associate in the lab for two years

Conference Organization

- International Conference of Biological Ontologies (ICBO) 2017 Vaccines and Drug Ontology Studies (VDOS). Sep.13-15, 2017. Newcastle Upon Tyne, UK. (Co-organizer)
- International Conference of Biological Ontologies (ICBO) 2018 Vaccines and Drug Ontology Studies (VDOS) workshop. Aug. 7-10, 2018. Corvallis, Oregon. (Co-organizer)

Bibliography

Peer Reviewed Publications (*: equal contribution, $^{\$}$: (co-)corresponding authorship)

Diabetes and Its Complications

1. de Anda-Jáuregui G, Guo K, McGregor B, Feldman EL and **Hur J$^{\$}$**. Changes in pathway connectivity induced by disease and therapeutic treatment: a study of diabetic neuropathy and pioglitazone. ***BMC Systems Biology***. (*In press*)
2. McGregor BA, Eid S, Murdock B, Guo K, de Anda-Jáuregui G, Porter J, Feldman EL, and **Hur J$^{\$}$**. Transcriptional signature of diabetic peripheral neuropathy conserved across human and mouse. ***Scientific Reports.*** 2018 Dec 5;8(1):17678. doi: 10.1038/s41598-018-36098-5. [PMID: 30518872]
3. Cho KH, Cho EH, **Hur J**, and Shin D. Association of sleep duration and obesity according to sex and age in Korean Adults: Results from the Korea National Health and Nutrition Examination Survey 2007–2015. ***Journal of Korean Biomedical Sciences.*** (*In press*)
4. Shin D*, **Hur J***, Cho KH, and Cho E. Trends of self-reported sleep duration in Korean Adults: Results from the Korea National Health and Nutrition Examination Survey 2007–2015. ***Sleep Medicine.*** https://doi.org/10.1016/j.sleep.2018.08.008 [PMID: 30308449]
5. Hinder LM, Murdock BJ, Park M, Bender DE, O'Brien PD, Rumora AE, **Hur J**, and Feldman EL. Transcriptional networks of progressive diabetic peripheral neuropathy in the db/db mouse model of type 2 diabetes: An inflammatory story. ***Experimental Neurology***. 2018 Jul;305:33-43. doi: 10.1016/j.expneurol.2018.03.011. [PMID: 29550371]
6. Cho EH, Shin DY, Cho KH, and **Hur J$^{\$}$**. Prevalences and management of diabetes and pre-diabetes among Korean teenagers and young adults: Results from the Korean National Health and Nutrition Examination Survey 2005-2014. ***Journal of Korean***

Medical Sciences. 2017 Dec;32(12):1984-1990. doi: 10.3346/jkms.2017.32.12.1984. [PMID: 29115080]

7. Hinder LM*, Park M*, Rumora AE*, **Hur J**, Eichinger F, Pennathur S, Kretzler M, Brosius FC, and Feldman EL. Comparative RNA-Seq Transcriptome Analyses Provide New Insights into Diabetic Neuropathy and Nephropathy. ***Journal of Cellular and Molecular Medicine***, 2017 Mar 8. doi: 10.1111/jcmm.13136. [PMID: 28272773]
8. Lee KJ, **Hur J**, Yang KS, Lee MK, and Lee SJ. Acute biophysical responses and the psychological effects of different types of forests in patients with metabolic syndrome. ***Environment & Behavior***, 2017 Mar 31. Doe: 10.1177/0013916517700957 [PMID: indexing in process] [Full text]
9. **Hur J**, Cho EH, Baek KH, and Lee KJ. Prediction of Gestational Diabetes Mellitus by Unconjugated Estriol Levels in Maternal Serum. ***International Journal of Medical Sciences***, 2017 Feb 7;14(2):123-127. doi: 10.7150/ijms.17321. [PMID: 28260987]
10. Sas KM, Kayampilly P, Byun J, Nair V, Hinder LM, **Hur J**, Zhang H, Lin C, Qi NR, Michailidis G, Groop PH, Darshi M, Sharma K, Schelling JR, Sedor JR, Pop-Busui R, Weinberg JM, Soleimanpour SA, Abcouwer SF, Gardner TW, Burant CF, Feldman EL, Kretzler M, Brosius FC, and Pennathur S. Tissue-specific metabolic reprogramming drives nutrient flux in diabetic complications. ***Journal of Clinical Investigation***, 2016 Sep 22;1(15):e86976 [PMID: 27699244]
11. **Hur J**$, O'Brien PD, Nair V, Hinder LM, McGregor BA, Jagadish HV, Kretzler M, Brosius FC, and Feldman EL$. Transcriptional networks of murine diabetic peripheral neuropathy and nephropathy: Common and distinct gene expression patterns. ***Diabetologia***, 2016 Mar 21 [PMID: 27000313]
12. O'Brien PD, **Hur J**, Robell NJ, Hayes JM, Sakowski SA, and Feldman EL. Gender-specific differences in diabetic neuropathy in BTBR ob/ob mice. ***Journal of Diabetic Complications***, 2015 Oct 3. doi: 10.1016/j.jdiacomp.2015.09.018. [PMID: 26525588]
13. **Hur J***, Dauch JR*, Hinder ML, Hayes JM, Backus C, Sakowski SA, and Feldman EL. The Metabolic Syndrome and Microvascular Complications in a Murine Model of Type 2 Diabetes. ***Diabetes***, 2015 [PMID: 25979075]
14. O'Brien PD, **Hur J**, Hayes JM, Lindblad CN, and Feldman EL. BTBR ob/ob mice as a novel diabetic neuropathy model: Neurological characterization and gene expression analyses. ***Neurobiology of Disease***, 2014 Oct 30;73C:348-355. [PMID: 25447227]
15. **Hur J**, Sullivan KA, Callaghan BC, Pop-Busui R, and Feldman EL. Identification of factors associated with sural nerve regeneration and degeneration in diabetic neuropathy, ***Diabetes Care***, 2013, 2013 Dec;36(12):4043-9. [PMID: 24101696]
16. Sims-Robinson C, **Hur J**, Hayes JM, Dauch JR, Keller PJ, Brooks SV, and Feldman EL. The role of oxidative stress in nervous system aging. ***PLoS One***, 2013 Jul 2;8(7):e68011. doi: 10.1371/journal.pone.0068011. Print 2013. [PMID: 23844146]
17. Han J, Back SH, **Hur J**, Lin YH, Gildersleeve R, Shan J, et al. ER-stress-induced transcriptional regulation increases protein synthesis leading to cell death. ***Nature Cell Biology***, 2013 May;15(5):481-90 [PMID: 23624402]
18. Callaghan BC, **Hur J**, and Feldman EF. Diabetic Neuropathy: One disease or two?, ***Current Opinions in Neurology,*** 2012, 25**:**536-541 [PMID: 22892951]
19. Sims-Robinson C, Zhao S, **Hur J**, and Feldman EL. Central nervous system endoplasmic reticulum stress in a murine model of type 2 diabetes, ***Diabetologia***, 2012, **55:**2276-2284. [PMID: 22581041]

20. **Hur J**, Sullivan KA, Pande M, Hong Y, Sima AAF, Jagadish HV, Kretzler M, and Feldman EL. The identification of gene expression profiles predictive of human diabetic neuropathy, ***Brain***, 2011, Nov;134(Pt 11):3222-35 [PMID: 21926103]
21. Pande M, **Hur J**, Hong Y, Backus C, Hayes JM, Oh SS, Kretzler M, and Feldman EL. Transcriptional profiling of diabetic neuropathy in the BKS db/db mouse, a model of type 2 diabetes, ***Diabetes***, 2011 [PMID: 21617178]
22. Kim MK, **Hur J**, Lee SY, Kim YL, Park KS, Park SW, and Lee KJ. Maternal obesity and associated risk of adverse pregnancy outcomes in women with hyperglycemia, ***Korean Journal of Obstetrics and Gynecology***, 2011;54(10):591-598, doi: 10.5468/KJOG.2011.54.10.591 [Full text]
23. Lee S, **Hur J**, Lee KJ. Pregnancy outcome and relationship between maternal weight gain and fetal birth weight in Korean pregnant women with hyperglycemia, ***Journal of Women's Medicine,*** 2011;4(2):35-40, doi: 10.5468/jwm.2011.4.2.35 [Full text]
24. **Hur J,** Sullivan KA, Schuyler AD, Hong Y, Pande M, States DJ, Jagadish HV, Feldman EL. Literature-based discovery of diabetes- and ROS-related targets, ***BMC Medical Genomics***, 2010 [PMID: 20979611]

Literature Mining and Bioinformatics Tools

25. **Hur J**$, Ozgur A, and He Y. Ontology-based NLP literature mining and analysis of adverse drug reactions associated with neuropathy-inducing drugs. ***Journal of Biomedical Semantics*** 2018 Jun 7;9(1):17. doi: 10.1186/s13326-018-0185-x. [PMID: 29880031]
26. **Hur J**$, Ozgur A, He Y. Ontology-based literature mining of E. coli vaccine-associated gene interaction networks. ***Journal of Biomedical Semantics***, 2017 Mar 14;8(1):12. doi: 10.1186/s13326-017-0122-4. [PMID: 28288685]
27. Ozgur A*, **Hur J***, and He Y. The Interaction Network Ontology-supported modeling and mining of complex interactions represented with multiple keywords in biomedical literature. ***BioData Mining***, 2016 Dec 19;9:41. doi: 10.1186/s13040-016-0118-0. [PMID: 28031747]
28. Guo A, Racz R, **Hur J**, Lin Yu, Xiang Z, Zhao L, Rinder J, Jiang G, Zhu Q, and He Y. Ontology-based collection, representation and analysis of drug-associated neuropathy adverse events. ***Journal of Biomedical Semantics***, 2016 May 21;7:29. doi: 10.1186/s13326-016-0069-x. [PMID: 27213033]
29. Karadeniz I, **Hur J**$, He Y$, and Özgür A$. Literature Mining and Ontology based Analysis of Host-Brucella Gene-Gene Interaction Network. ***Frontiers Research Topics Microbiology***, 2015 Dec 9;6:1386. doi: 10.3389 [PMID: 26696993]
30. Chan WKB, Zhang H, Yang J, Brender JR, **Hur J**, Ozgur A, and Zhang Y. GLASS: a comprehensive database for experimentally-validated GPCR-ligand associations. ***Bioinformatics***, 2015 May 13. Pii: btv302 [PMID: 25971743]
31. **Hur J***, Ozgur A*, Xiang Z, and He Y. Development and Application of an Interaction Network Ontology (INO) for Literature Mining of Vaccine-associated Gene-Gene Interactions. ***Journal of Biomedical Semantics***, 2015 Jan 6;6:2. [PMID: 25785184]
32. He Y, Racz R, Sayers S, Lin Y, Todd T, **Hur J**, Li X, Patel M, Zhao B, Chung M, Ostrow J, Sylora A, Dungarani P, Ulysse G, Kochhar K, Vidri B, Strait K, Jourdian GW, and Xiang Z. Updates on the VIOLIN Vaccine Database and Analysis System. ***Nucleic Acids Research***, 2014 Jan 1; 42(1): D1124-32 [PMID: 24259431]

33. **Hur J***, Ozgur A*, Xiang Z, and He Y. Identification of fever and vaccine-associated gene interaction networks using ontology-based literature mining. ***Journal of Biomedical Semantics***, 2012, 3:18. [PMID: 23256563]
34. **Hur J**, Xiang Z, Feldman EL, and He Y. Ontology-based Brucella vaccine literature indexing and systematic analysis of gene-vaccine association network. ***BMC Immunology***, 2011 [PMID: 21871085]
35. **Hur J,** Schuyler AD, States DJ, Feldman EL. SciMiner: Web-based literature mining tool for target identification and functional enrichment analysis. ***Bioinformatics,*** 25(6):838-40, 2009. [PMID: 19188191]
36. **Hur J,** Wild D. PubChemSR: A search and retrieval tool for PubChem. ***Chemistry Central Journal***, 2:11, 2008. [PMID: 18482452]
37. Lee S, **Hur J,** Kim Y. A graph-theoretic modeling on GO space for biological interpretation of gene clusters. ***Bioinformatics***, 20(3):381-388, 2004. [PMID: 14960465]

Systems Pharmacology & Cheminformatics

1. de Anda-Jáuregui G, McGregor B, Guo K, and **Hur J$**. A network pharmacology approach for the identification of common mechanisms of drug-induced peripheral neuropathy. ***CPT-Pharmacometrics & Systems Pharmagology*** (*In press*)
2. de Anda-Jáuregui G, Guo K, McGregor B, and **Hur J$**. Exploration of the Anti-Inflammatory Drug Space Through Network Pharmacology: Applications for Drug Repurposing. ***Frontiers in Physiology.*** 2018 Mar 1;9:151. doi.org/10.3389/fphys.2018.00151 [PMID: 29545755]
3. **Hur J$**, Danes L, Hsieh JH, Krout D, McGregor BA, and Auerbach SS. Tox21 Enricher: Web-based Chemical and Functional Enrichment Analysis Tool for Tox21 Toxicity Screening Platform. ***Molecular Informatics***. 2018 Jan 29. doi: 10.1002/minf.201700129. [PMID: 29377626]
4. Messinis D, Melas IN, **Hur J**, Varshney N, Alexopoulos LG, and Bai J.P.F., Translational systems pharmacology-based predictive assessment of drug-induced cardiomyopathy. ***CPT: systems pharmacology & pharmacometrics*** 2018 Jan 17. doi: 10.1002/psp4.12272. [PMID: 29341478]
5. Bai JPF, Melas IN, **Hur J**, and Ellen YG. Advances in omics for informed pharmaceutical R&D. ***Expert Opinion on Drug Discovery*** (2017): 1-4. https://doi.org/10.1080/17460441.2018.1394839 [Full text]
6. Sakellaropoulos T, **Hur J**, Melas IN, Guo EY, Alexopoulos L, and Bai JPF. Precision medicine: Computational approaches for better patient care from bedside to benchtop. ***Advances in Protein Chemistry and Structural Biology***, 102, 147-179, doi:10.1016/bs.apcsb.2015.09.005 (2016). [PMID: 26827605]
7. **Hur J$**, Zhao CS, and Bai JPF$. Systems Pharmacological Analysis of Drugs Inducing Stevens–Johnson Syndrome and Toxic Epidermal Necrolysis. ***Chemical Research in Toxicology***, 2015 May 18;28(5):927-34. doi: 10.1021/tx5005248. [PMID: 25811541]
8. **Hur J**, Guo A, Loh W, Feldman EL, and Bai JPF. Integrated systems pharmacology analysis of clinical drug-induced peripheral neuropathy. ***Clinical Pharmacology and Therapeutics: Pharmacometrics and Systems Pharmacology***, 2014 May 14;3:e114. doi: 10.1038/psp.2014.11. [PMID: 24827872]
9. **Hur J***, Liu Z*, Tong W, Laaksonen R, and Bai JPF. Drug-Induced Rhabdomyolysis: from systems pharmacology network analysis to biochemical flux analysis. ***Chemical***

Research in Toxicology, 2014 [PMID: 24422454]

Bioinformatics Approaches to Other Disease Models

10. de Anda-Jáuregui G, Espinal-Enriquez J, **Hur J**, Alcala-Corona SA, Ruiz-Azuara L, and Hernandez-Lemus E. Identification of Casiopeina II-gly secondary targets through a systems pharmacology approach. ***Comput Biol Chem***, 2018 Nov 23;78:127-132. doi: 10.1016/j.compbiolchem.2018.11.021. [PMID: 30504090]
11. Tank EM*, Figueroa-Romero C*, Hinder LM, Bedi K, Archbold HC, Li X, Weskamp K, Safren N, Paez-Colasante X, Pacut C, Thummas S, Paulsen MT, Guo K, **Hur J**, Ljungman M, Feldman EL, and Barmada SJ. Abnormal RNA stability in amyotrophic lateral sclerosis. ***Nature Communications.*** 2018 Jul 20;9(1):2845. doi: 10.1038/s41467-018-05049-z. [PMID: 30030424]
12. Witt KL, Hsieh JH, Smith-Roe S, Xia M, Huang R, Auerbach SS, **Hur J**, Tice RR. Assessment of the DNA Damaging Potential of Environmental Chemicals Using a Quantitative High-Throughput Screening Approach to Measure p53 Activation. ***Environmental and Molecular Mutagenesis***, 2017 Aug;58(7):494-507. doi: 10.1002/em.22112. Epub 2017 Jul 17. [PMID: 28714573]
13. Shin DY, **Hur J**, Cho EH, Chung HK, Shivappa N, Wirth M, Hebert J, and Lee KW. Pre-pregnancy Body Mass Index is Positively Associated with Dietary Inflammatory Index and C-Reactive Protein Concentrations during Pregnancy. ***Nutrients***, (2017 Apr 1;9(4). pii: E351. doi: 10.3390/nu9040351. [PMID: 28368304]
14. Krishanan KC, Santhosh M, Alagarsamy J, **Hur J**, Nookala Suba, Norrby-Teglund A, and Kotb M. Genetic Architecture of Group A Streptococcal Necrotizing Soft Tissue Infections in the mouse. ***PLOS Pathogens***, 2016 Jul 11;12(7):e1005732. doi: 10.1371/journal.ppat.1005732. [PMID: 27399650]
15. Figueroa-Romero C*, **Hur J***, Lunn JS, Paez-Colasante X, Bender DE, Yung R, Sakowski SA, Feldman EL. Expression of microRNAs in human post-mortem amyotrophic lateral sclerosis spinal cords provides insight into disease mechanisms. ***Molecular Cell Neuroscience***, 2015 Dec 17;71:34-45. doi: 10.1016 [PMID: 26704906]
16. Cho EH, **Hur J**, and Lee KJ. Early gestational weight gain and the adverse pregnancy outcomes in Korean women. ***PLOS One***, 2015. Oct 14;10(10):e0140376. doi: 10.1371/journal.pone.0140376. [PMID: 26465322]
17. Waugh TA, Horstick E, **Hur J**, Jackson SW, Li X, and Dowling JJ. Fluoxetine prevents dystrophic changes in a zebrafish model of Duchenne muscular dystrophy. ***Human Molecular Genetics***, 2014 2014 Apr 23. [PMID: 24760771]
18. Feldman EL, Boulis NM, **Hur J**, Johe K, Rutkove SB, Federici T, Polak M, Bordeau J, Sakowski SA, and Glass JD. Intraspinal Neural Stem Cell Injections in ALS Patients: Phase I Trial Outcomes. ***Annals of Neurology***, 2014 [PMID: 24510776]
19. Todd PK, Ackall FY, **Hur J**, Sharma K, Paulson HL, Dowling JJ. Transcriptional changes and developmental abnormalities in a Zebrafish model of Myotonic Dystrophy. ***Disease Models & Mechanisms***, 2014 Jan;7(1):143-55. doi: 10.1242/dmm.012427. Epub 2013 Oct 2. [PMID: 24092878]
20. Figueroa-Romero C*, **Hur J***, Bender DE, Delaney CE, Cataldo MD, Smith AL, Yung R, Ruden DM, Callaghan BC, and Feldman EL. Identification of Epigenetically Altered Genes in Sporadic Amyotrophic Lateral Sclerosis. ***PLoS One***, 2012, 7:e52672. [PMID: 23300739]

21. Dowling JJ, Arbogast S, **Hur J**, Waugh T, Nelson DD, McEvoy Anna, Marty I, Monnier N, Lunardi J, Brooks SV, Kuwada JY, and Ferreiro A. Oxidative Stress and Successful Antioxidant Treatment in RYR1-related Myopathies, ***Brain***, 2012; **135**, 1115-1127. [PMID: 22418739]
22. Lunn JS, Sakowski SA, **Hur J**, Feldman EL. Stem cell technology for neurodegenerative diseases, ***Annals of Neurology***, 2011, DOI:10.1002/ana.22487 [PMID: 21905078]
23. Lee K, **Hur J,** Yoo J. Twin weight discordance and maternal weight gain in twin pregnancies. ***International Journal of Gynecology Obstetrics***, 96(3):176-180, 2007. [PMID: 17291507]

Conference Proceedings – Peer-reviewed

24. **Hur J**[$], Ozgur A, and He Y. Ontology-based NLP literature mining and analysis of adverse drug reactions associated with neuropathy-inducing drugs. *The proceedings of the International Conference of Biological Ontologies (ICBO) 2017 Vaccines and Drug Ontology Studies (VDOS) workshop (Conference proceedings)*.
25. **Hur J**[$], Ozgur A, Ong E, and He Y. Ontology-based literature mining of E. coli vaccine-associated gene interaction networks. *The proceedings of the International Conference of Biological Ontologies (ICBO) 2016 Vaccines and Drug Ontology Studies (VDOS) workshop (Conference proceedings)*.
26. Özgür A, **Hur J**[$], and He Y[$]. Extension of the Interaction Network Ontology for literature mining of gene-gene interaction networks from sentences with multiple interaction keywords. *The Proceedings of the International Workshop on Biomedical Data Mining, Modeling, and Semantic Integration: A Promising Approach to Solving Unmet Medical Needs (BDM2I 2015) (Conference proceedings*). [Full text]
27. Guo A, Racz R, **Hur J**, Lin Y, Xiang Z, Zhao L, Jiang G, Zhu Q, Bai J, and He Y. Ontology-based collection, representation and analysis of drug-associated neuropathy adverse events. *The proceedings of the International Conference of Biological Ontologies (ICBO) 2015 Vaccines and Drug Ontology Studies (VDOS) workshop (Conference proceedings)*. [Full text]

Book chapter

1. Melas IN, Sakellaropoulos T, **Hur J,** Messinis D, Guo EY, Alexopoulos LG, and Bai J.P.F., A computational platform and guide for acceleration of novel medicine and precision medicine. ***Methods in Molecular Biology. Bioinformatics in Drug Discovery 3rd edition.*** Edited by Richard S Larson and Tudor I Oprea. (Accepted and to be published in mid-2018)

Conference Proceedings – Not peer-reviewed

1. Tiftikci M, He Y, Ozgur A, and **Hur J**. Extracting adverse drug reactions using deep learning- and dictionary-based literature mining approaches. ***Proceedings of Text Analysis Conference 2017***. (*Final version submitted on Feb 24, 2018*)

Preprint (BioRxived) – Not peer-reviewed

1. de Anda-Jáuregui G, Espinal-Enriquez J, **Hur J**, Alcala-Corona SA, Ruiz-Azuara L, and Hernandez-Lemus E. Identification of Casiopeina II-gly secondary targets through a

systems pharmacology approach. bioRxiv, 2018. doi: https://doi.org/10.1101/327718 https://www.biorxiv.org/content/early/2018/05/21/327718

Manuscript in revision or under peer-review

1. Guo K*, Elzinga S*, Eid S, Figueroa-Romero C, Hinder LM, Pacut C, Feldman EL, and **Hur J$**. Genome-wide DNA methylation profiling of human diabetic peripheral neuropathy in subjects with type 2 diabetes mellitus. ***Epigenetics***. (*Under review*)
2. Claycombe-Larson KJ, Dhasarathy A, Bundy AN, Bhattacharya A, Darland D, **Hur J**, Perley D, Johnson LA, and Roemmich JN. Maternal obesity is associated with increased placental RBMS1 DNA methylation and RBMS1 mRNA expression. ***PLOS ONE***. (*A revision submitted*)

Oral Presentation

1. Computational approaches for elucidating the pathogenic mechanisms of diabetic peripheral neuropathy and identifying small-molecule drugs for its treatment. Chonnam National University, School of Biological Sciences and Technology. March 27, 2018. Gwangju, Korea. (*Invited talk*)
2. Integration of machine learning- and dictionary-based approach for identification of adverse drug reactions in drug labels. *Text Analysis Conference (TAC) 2017*. To be presented on November 13-14. *National Institute of Standards and Technology (NIST)*, Gaithersburg, MD. (*Contributed talk*)
3. Diabetic Peripheral Neuropathy Knowledge-Base (DPNKB), an integrated web-based exploration and analysis platform for diabetic peripheral neuropathy gene expression data. *University of Michigan, Department of Neurology*. October 27, 2017. Ann Arbor, Michigan. (*Invited talk*)
4. Ontology-based NLP literature mining and analysis of adverse drug reactions associated with neuropathy-inducing drugs. *International Conference of Biological Ontologies (ICBO) 2017 Vaccines and Drug Ontology Studies (VDOS) workshop*. September 13-15, 2017. Newcastle Upon Tyne, United Kingdom. (*Contributed talk*)
5. Ontology-based literature mining of E. coli vaccine-associated gene interaction networks. *International Conference of Biological Ontologies (ICBO) & BioCreative 2016 Vaccines and Drug Ontology Studies (VDOS) workshop*. August 1-4, 2016. Corvallis, Oregon. (*Contributed talk*)
6. Transcriptional networks of murine diabetic neuropathy and nephropathy: Common and distinct gene expression patterns. *American Diabetes Association 75th Scientific Sessions*, June 5-9, 2015. Boston, Massachusetts. (*Contributed talk*)
7. Bioinformatics approaches for understanding the disease mechanisms of diabetic neuropathy and amyotrophic lateral sclerosis. *University of North Dakota, School of Medicine and Health Sciences, Department of Basic Science*. August 28, 2014. Grand Forks, North Dakota. (*Invited talk*)
8. Glucose and Triglyceride Control Prevents Small but not Large Fiber Diabetic Neuropathy in a Murine Model of Type 2 Diabetes. *American Diabetes Association 74th Scientific Sessions*, June 13-17, 2014. San Francisco, California. (*Contributed talk*)
9. Bioinformatics leads to potential therapeutic targets in ALS. *Mayo Clinic Department of Neuroscience Seminar Series*. December 20, 2013. Jacksonville, Florida. (*Invited talk*)
10. Informatics tools for interacting with literature and chemical databases to build

pharmacological networks of drug-induced neuropathy. *246th American Chemical Society National Meeting and Exposition. Graduate Student Research Symposium in Cheminformatics, Information Science, and Library Science*. Sep 8, 2013. Indianapolis, Indiana. (*Invited talk*)

11. Ontology-based Enrichment Analysis of Gene-Gene Interaction Terms and Application on Literature-derived IFN-ɣ network. *International Conference on Intelligent Systems for Molecular Biology – Bio-Ontologies Special Interest Group*, July 14, 2012. Long Beach, California. (*Contributed talk*)
12. Identification of fever and vaccine-associated gene interaction networks using ontology-based literature mining. *International Conference on Biomedical Ontology – Vaccine and Drug Ontology in the Study of Mechanism and Effect*, July 21, 2012. Graz, Austria. (*Contributed talk*; *presented by the co-first author*)
13. The identification of gene expression profiles predictive of human diabetic neuropathy. *Peripheral Nerve Society Biennial Meeting*, June 25-29, 2011. Potomac, Maryland. (*Contributed talk*; *a recipient of the Wiley book award*)
14. Integration of Text Mining with Systems Biology Provides New Insight into the Pathogenesis of Diabetic Neuropathy. *Department of Neurology Research Seminar, University of Michigan*, March 17, 2011, Ann Arbor, Michigan. (*Invited talk*)
15. Defining reactive oxidant genes in diabetes mellitus. Tools and Technology Seminar, University of Michigan. February 01, 2007. Ann Arbor, Michigan. (*Invited talk*)
16. Differential location analysis: a novel approach to detecting cellular responses to environmental changes. Center for Genomics and Bioinformatics Round Table, Indiana University. January 26, 2006. Bloomington, Indiana. (*Invited talk*)

Conference Presentation (Posters and other oral talks, including those presented by lab members and co-authors)

1. Kim J, Yoon H, White T, Zhang P, Brown J, Kim J, **Hur J**, Fryer JD, and LeBrasseur NK. The Role of miR-7 in The Regulation of Energy Homeostasis. Keystone Symposia Drivers of Type 2 Diabetes: From Genes to Environment (S1), October 7-11, 2018, Seoul, South Korea (*Poster*)
2. Guo K, and **Hur J**. RichR: an R package for enrichment analysis and network construction for biological datasets. The 26th Intelligent Systems for Molecular Biology conference. Chicago. July 6-10, 2018 (*Poster*)
3. Claycombe-Larson KJ, Bundy AN, Darland D, **Hur J**, Dhasarathy A, Perley D, Scheidegger A, Johnson L, Krout D, and Roemmich JN. Obesity during human pregnancy is associated with altered placental tissue structure and RBMS1 mRNA expression. The American Society of Nutrition Annual Meeting 2018. June 9-12, Boston, MA. (*Poster*)
4. Guo K, Feldman EL, and **Hur J**. Two-way Orthogonal Partial Least Squares (O2PLS) analysis of the lipidome and transcriptome in prediabetic and diabetic neuropathy. The American Diabetes Association 78th Scientific Sessions, June 22-26, 2018, Orlando, Florida. (*Guided poster)*
5. Guo K, Elzinga S, Eid S, Figueroa-Romero C, McGregor BA, de Anda-Jauregui G, Pacut C, Feldman EL, and **Hur J**. Large scale DNA methylation profiling of human diabetic peripheral neuropathy in subjects with type 2 diabetes mellitus. The American

Diabetes Association 78th Scientific Sessions, June 22-26, 2018, Orlando, Florida. (*Guided poster)*

6. O'Brien PD, Guo K, Hinder LM, **Hur J**, John M. Hayes1, Mendelson EF, Tabbey MA, Backus C and Feldman EL. Amelioration of Peripheral Neuropathy in Mouse Models of Diabetes by Dietary Reversal. The American Diabetes Association 78th Scientific Sessions, June 22-26, 2018, Orlando, Florida. (*Poster)*
7. Eid S, Hayes JM, Pacut C, Mendelson FE, Guo K, **Hur J**, and Feldman EL. Nox, Nox, Are You Here? The Emerging Role of NADPH Oxidase Nox5 in Diabetic Neuropathy. The American Diabetes Association 78th Scientific Sessions, June 22-26, 2018, Orlando, Florida. (*Poster)*
8. Guo K, **Hur J**, Lubin F, Lusardi T, Perez G, Ruskin D, Saleumvong B, Sanchez R, Ohm J, Geiger J, Masino S, and Boison D. Protocol matters - reproducibility and rigor of DNA methylation data sets. The 5th Epigenetics and Epigenomics Symposium. May 7-8, 2018. Grand Forks, North Dakota. (*Poster*)
9. Guo K*, Elzinga S*, Eid S, de Anda-Jauregui, Figueroa-Romero C, McGregor BA, Backus Carey, Pacut C, Feldman EL, and **Hur J**. Global DNA methylation profiling of human diabetic peripheral neuropathy in subjects with T2DM. The 110th North Dakota Academy of Science Annual Meeting. April 27, 2018. Minot, North Dakota. (*Poster*)
10. McGregor BA, Guo K, **Hur J**, and Porter J. Systems Pharmacology Approach to Assign Expression Based Signatures to Adrenergic Compounds. Experimental Biology (EB) American Society for Pharmacology & Experimental Therapeutics (ASPET) 2018 Meeting. April 21-25, 2018. San Diego, California. (*Poster*)
11. Danes L, Hsieh JH, McGregor B, Krout D, Hu WC, Auerbach S, and **Hur J**. Tox 21 Enricher: Enrichment Analysis of Chemical Annotations for Tox21 Toxicity Screening Platform. Frank N. Low Research Day. April 19, 2018. Grand Forks, North Dakota. (*Poster*) – Best presentation award (Danes L. in the 'Undergraduate' category)
12. McGregor BA, Guo K, **Hur J** and Porter J. Expression-Based Compound Signatures Used to Identify Alternative Research Uses. Frank N. Low Research Day. April 19, 2018. Grand Forks, North Dakota. (*Poster*)
13. Guo K*, Elzinga S*, Eid S, de Anda-Jauregui G, Figueroa-Romero C, McGregor BA, Backus Carey, Pacut C, Feldman EL, and **Hur J**. Genome-wide DNA methylation profiling of human diabetic peripheral neuropathy in subjects with type 2 diabetes mellitus. Frank N. Low Research Day. April 19, 2018. Grand Forks, North Dakota. (*Oral presentation by Guo, a post-doc in the lab*)
14. Pan X, Wang J, Deng S, **Hur J**, Ozgur A, and He Y. Ontology-based systematic collection, representation, and analysis of suicidal behavior-related genes. The 11th international Biocuration Conference, April 08-11, 2018. Shanghai, China (*Poster*)
15. Elzinga S*, Guo K*, Eid S, de Anda-Jauregui G, Figueroa-Romero C, McGregor BA, Backus Carey, Pacut C, Feldman EL, and **Hur J**. Genome-wide DNA methylation profiling of human diabetic peripheral neuropathy in subjects with type 2 diabetes mellitus. Keystone Symposia: Uncomplicating diabetes: Reducing the burden of diabetes-related end organ injury. February 25 – March 1, 2018. Santa Fe, New Mexico (*Poster*)
16. O'Brien PD, Hinder LM, Guo K, **Hur J**, John M. Hayes1, Mendelson EF, Tabbey MA, Backus C and Feldman EL. Dietary Reversal Ameliorates Peripheral Neuropathy in Mouse Models of Diabetes. Keystone Symposia: Uncomplicating diabetes: Reducing the

burden of diabetes-related end organ injury. February 25 – March 1, 2018. Santa Fe, New Mexico (*Poster*)

17. Figueroa-Romero C, Lo TW, **Hur J**, Stoll E, Spring C, Pacut C, Backus C, Goutman SA, Nagrath S, and Feldman EL. Extracellular Vesicles From ALS Spinal Cord And Brain Contain Dysregulated Mirnas. ***Neuroepigenetics and Neuroepitranscriptomics Conference***. February 24-27, 2018. Cancun, Mexico (*Poster*)
18. de Anda-Jáuregui G, Guo K, McGregor B, and **Hur J**. Changes in pathway connectivity induced by disease and therapeutic treatment: the case of diabetic neuropathy and pioglitazone. *Conference on Complex Systems 2017,* September 17-22, Cancún, Mexico. (*Oral presentation by de Anda-Jáuregui, a post-doc in the lab*)
19. de Anda-Jáuregui G, McGregor B, Guo K, and **Hur J**. The use of a drug-gene perturbation network for the study of drug side effects: The case of drug -induced peripheral neuropathy. *The 1st Latin American Conference on Complex Networks.* September 25-29, 2017, Puebla, Mexico. (*Oral presentation by de Anda-Jáuregui, a post-doc in the lab*)
20. de Anda-Jáuregui G, Guo K, McGregor B, and **Hur J**. Network pharmacology exploration of the anti-inflammatory drug space. *The 25th Conference on Intelligent Systems for Molecular Biology & 16th European Conference on Computational Biology*. July 21-25, 2017. Prague, Czech Republic. (*Poster*)
21. Guo K, de Anda-Jáuregui G, McGregor BA, Backus C, Pacut C, Feldman EL, and **Hur J**. RNA-Seq analysis of human diabetic neuropathy in subjects with type 2 diabetes. Diabetes. *American Diabetes Association 77th Scientific Sessions*, June 9-13, 2017. San Diego, California. (*Poster*)
22. Cho EH, Jeong JY, and **Hur J**. Ly2405319, an analog of FGF-21 ameliorates liver fibrosis through succinate-GPR 91 pathway in mice. *American Diabetes Association 77th Scientific Sessions*, June 9-13, 2017. San Diego, California. (*Poster*)
23. de Anda-Jáuregui G, Guo K, McGregor BA, and **Hur J**. Pathway-level effects of pioglitazone on neuropathy in the BKS-db/db mouse model of type 2 diabetes. *American Diabetes Association 77th Scientific Sessions*, June 9-13, 2017. San Diego, California. (*Poster*)
24. McGregor BA, Hinder LM, Guo K, de Anda-Jáuregui G, Pennathur S, Kretzler M, Brosius FC, Porter J, Feldman EL, and **Hur J**. Conserved gene expression changes and dysregulated pathways in complication-prone tissues of streptozotocin-diabetic mouse. *American Diabetes Association 77th Scientific Sessions*, June 9-13, 2017. San Diego, California. (*Poster*)
25. Hinder LM, Guo K, de Anda-Jáuregui G, McGregor BA, Backus C, Feldman EL, **Hur J**. Effect of Pioglitazone Treatment on Diabetic Neuropathy in STZ-Diabetic Mice. *American Diabetes Association 77th Scientific Sessions*, June 9-13, 2017. San Diego, California. (*Poster*)
26. de Anda-Jáuregui G, McGregor B, Guo K, and **Hur J**. Using systems pharmacology to identify common mechanisms of drug-induced peripheral neuropathy. *109th Annual Meeting of the North Dakota Academy of Science*, April 28-29, Grand Forks, North Dakota. (*Oral presentation;* ***best post-doc presentation award***)
27. Guo K, de Anda-Jáuregui G, McGregor BA, Backus C, Pacut C, Feldman EL, and **Hur J**. RNA-Seq analysis of human diabetic neuropathy in subjects with type 2 diabetes.

Diabetes. *109th Annual Meeting of the North Dakota Academy of Science*, April 28-29, Grand Forks. North Dakota. (*Poster*)

28. **Hur J**, Danes L, McGregor BA, Krout D, Hsieh JH, and Auerbach S. Tox21 Enricher: Web-based Chemical and Functional Enrichment Analysis Tool for Tox21 Toxicity Screening Platform. *Experimental Biology (EB) American Society for Biochemistry and Molecular Biology (ASBMB) Pharmacogenomics and Toxicogenomics 2017 Meeting*. April 22-26, 2017. Chicago, Illinois. (*Poster*)
29. Shin D, Lee KW, Tande DL, **Hur J**, Chung HK, Shivappa N, Wirth MD, and Hebert JR. Prepregnancy Body Mass Index is Positively Associated with Dietary Inflammatory Index and C-Reactive Protein Concentrations during Pregnancy. *Experimental Biology (EB) American Society for Nutrition (ASN) 2017 Meeting*. April 22-26, 2017. Chicago, Illinois. (*Poster*)
30. Bhattacharya A, **Hur J**, and Dhasarathy A. The Role of CCCTC Binding Factor CTCF in Epithelial to Mesenchymal Transition (EMT). *Experimental Biology (EB) American Society for Biochemistry and Molecular Biology (ASBMB) 2017 Meeting*. April 22-26, 2017. Chicago, Illinois. (*Poster*)
31. Shin D, Lee KW, Tande DL, **Hur J**, Shivappa N, Wirth MD, and Hebert JR. Effects of Dietary Inflammatory Index and History of Gestational Diabetes Mellitus on Insulin Resistance. *Experimental Biology (EB) American Society for Nutrition (ASN) 2017 Meeting*. April 22-26, 2017. Chicago, Illinois. (*Poster*)
32. Bhattacharya A, **Hur J**, and Dhasarathy A. The Role of CCCTC Binding Factor CTCF in Epithelial to Mesenchymal Transition (EMT). *UND SMHS 37th Frank N. Low Research Day*. April 6, 2017. Grand Forks, North Dakota. (*Poster*)
33. de Anda-Jáuregui G, McGregor B, Guo K, and **Hur J**. Using systems pharmacology to identify common mechanisms of drug-induced peripheral neuropathy. *UND SMHS 37th Frank N. Low Research Day*. April 6, 2017. Grand Forks, North Dakota. (*Poster*)
34. Guo K, de Anda-Jáuregui G, McGregor BA, Backus C, Pacut C, Feldman EL, and **Hur J**. RNA-Seq analysis of human diabetic neuropathy in subjects with type 2 diabetes. *UND SMHS 37th Frank N. Low Research Day*. April 6, 2017. Grand Forks, North Dakota. (*Poster*)
35. McGregor BA, Porter J, Feldman EL, and **Hur J**. Transcriptional signature of diabetic peripheral neuropathy shared between human and mouse. *UND SMHS 37th Frank N. Low Research Day*. April 6, 2017. Grand Forks, North Dakota. (*Poster*)
36. Ozgur A*, **Hur J***, Xiang Z*, Ong E, Radev DR, and He Y. Ignet: A centrality and INO-based web system for analyzing and visualizing literature-mined networks. *International Conference of Biological Ontologies (ICBO) & BioCreative 2016*. August 1-4, 2016. Corvallis, Oregon. (*Poster*)
37. Hsu CW, **Hur J**, Liu Z, and Bai JPF. Integrative systems approaches to repurposing drugs for treating ebola virus disease. *Drug Safety Gordon Research Conference*. June 26 – July 1, 2016. Easton, Massachusetts. (*Poster*)
38. McGregor BA, Porter J, Feldman EL, and **Hur J**. Systems Biology Approach to Identify Conserved Transcriptional Networks between Human and Murine Diabetic Neuropathy. *American Diabetes Association 76th Scientific Sessions*, June 10-14, 2016. New Orleans, Louisiana. (*Oral)*

39. Bhattacharya A, Hur J, and Dhasarathy A. The Role of CCCTC Binding Factor (CTCF) in Epithelial to Mesenchymal Transition (EMT). North Dakota Academy of Science (NDAS) Annual Meeting, April 15-16, 2016. Fargo, North Dakota (*Poster*)
40. McGregor BA, Porter J, Feldman EL, and **Hur J**. Systems Pharmacology Approach to Identify Potential Therapeutic Small- Molecules for Treatment of Diabetic Peripheral Neuropathy. Experimental Biology (EB) American Society for Pharmacology & Experimental Therapeutics (ASPET) 2016 Meeting. April 2-6, 2016. San Diego, California. (*Oral presentation;* ***2nd place – best abstract / presentation award***)
41. Hsieh JH, Svoboda D, **Hur J**, Sipes N, Huang R, Paules R, and Auerbach S. NTP Tox21 Toolbox to prioritize chemicals for extensive toxicological testing. *FutureTox III: Transforming 21st Century Science into Risk Assessment and Regulatory Decision-Making*. November 19-20, 2015. Arlington, Virginia. (*Poster*)
42. Hsieh JH, Svoboda D, **Hur J**, Sipes N, Huang R, Paules R, and Auerbach S. NTP Tox21 Toolbox to prioritize chemicals for extensive toxicological testing. *ASCCT: Integrated Approaches to Testing and Assessment: Promises and Challenges of a More Flexible Approach to Toxicology Testing*. October 1-2, 2015. Durham, North Carolina. (*Poster*)
43. Park M, **Hur J**, Eichinger F, Kretzler M, Brosius FC, and Feldman EL. Identification of Tissue-specific Effect of Pioglitazone Treatment in db/db Mice using RNA-Seq. *The 25th Annual Scientific Meeting of NEURODIAB*, September 11-13, 2015. Elsinore, Denmark. (*Poster*)
44. Guo A, Racz R, **Hur J**, Lin Y, Xiang Z, Zhao L, Jiang G, Zhu Q, Bai J, and He Y. Ontology-based collection, representation and analysis of drug-associated neuropathy adverse events. International Conference of Biological Ontologies (ICBO) 2015 Vaccines and Drug Ontology Studies (VDOS) workshop, July 27, 2015. Lisbon, Portugal. (*Oral)*
45. **Hur J**, O'Brien PD, Nair V, Hinder LM, Kretzler M, Brosius FC, and Feldman EL. Shared Transcriptional Networks Between Diabetic Peripheral Neuropathy And Nephropathy In Murine Models Of Diabetes. *Peripheral Nerve Society biennial meeting*, June 28-July 2, 2015. Quebec City, Quebec, Canada. (*Oral and poster presentations*)
46. Park M, **Hur J**, Eichinger F, Kretzler M, Brosius FC, and Feldman EL. Identification of Tissue-specific Effect of Pioglitazone Treatment in db/db Mice using RNA-Seq. *American Diabetes Association 75th Scientific Sessions*, June 5-9, 2015. Boston, Massachusetts. (*Oral)*
47. **Hur J**, Guo A, Loh W, Feldman EF, and Bai PF. Systems pharmacology analysis of drug-induced peripheral neuropathy. *International Conference on Systems Biology of Human Disease 2014.* June 17-19, 2014. Boston, Massachusetts. (*Poster*)
48. **Hur J**, Guo A, Loh W, Feldman EF, and Bai PF. Systems pharmacology analysis of drug-induced peripheral neuropathy. *The 9th Great Lake Bioinformatics (GLBio) Conference*. May 16-18, 2014. Cincinnati, Ohio. (*Flash-talk and poster*)
49. Park M, **Hur J**, and Feldman EF. A centralized data mining and analysis portal for diabetic neuropathy research. *The 9th Great Lake Bioinformatics (GLBio) Conference*. May 16-18, 2014. Cincinnati, Ohio. (*Flash-talk and poster*)
50. Sarntivijai S, **Hur J**, Ozgur A, Burkhart KK, He Y, Omenn GS, Athey BD, and Abernethy DR. Predicting Gene Interactions of Tyrosine Kinase Inhibitor-Induced Cardiotoxicity with Ontology of Adverse Events-assisted Bioinformatics. *American Society for Clinical Pharmacology and Therapeutics 2014 Annual Meeting*, March 18-

22, 2014. Atlanta, Georgia. (*Poster*)

51. **Hur J**, Sullivan KA, Callaghan BC, Pop-Busui R, and Feldman EL. Identification of factors associated with sural nerve regeneration and degeneration in diabetic neuropathy. *American Neurological Association's (ANA) 2013 Annual Meeting*, October 13-15, 2013. New Orleans, Louisiana. (*Poster*)
52. Figueroa-Romero C*, **Hur J***, Bender DE, Cataldo MD, Flores G, Jacoby S, Smith AL, Yung R, Callaghan BC, and Feldman EL. Identification of Epigenetically Altered Genes in Sporadic Amyotrophic Lateral Sclerosis. *American Neurological Association's (ANA) 2013 Annual Meeting*, October 13-15, 2013. New Orleans, Louisiana. (*Poster*)
53. O'Brien PD, **Hur J**, Robell NJ, Hayes JM, Oh SS, Dauch JR, Hong Yu, and Feldman EL. Diabetic Neuropathy in the BTBR OB/OB Mouse. *American Neurological Association's (ANA) 2013 Annual Meeting*, October 13-15, 2013. New Orleans, Louisiana. (*Poster*)
54. **Hur J**, Guo A, Loh W, Feldman EF, and Bai PF. Systems pharmacology and transcriptomics analysis to identify signatures of drug-induced peripheral neuropathy. *A. Alfred Taubman Medical Research Institute 6th Annual Symposium*. October 11, 2013. Ann Arbor, Michigan. (*Poster*)
55. Alameer RS, **Hur J**, Figueroa-Romero C, Feldman EL, and McEachin RC. Modeling Complex Genetic and Environmental Influences on ALS and FTD. *A. Alfred Taubman Medical Research Institute 6th Annual Symposium*. October 11, 2013. Ann Arbor, Michigan. (*Poster*)
56. **Hur J**, Sullivan KA, Callaghan BC, Pop-Busui R, and Feldman EL$^{\phi}$. Identification of factors associated with sural nerve regeneration and degeneration in diabetic neuropathy. *23rd Neurodiab Meeting*. September 19-22, 2013. Barcelona, Spain. (*Oral presentation*; $^{\phi}$presenting author)
57. **Hur J**, Guo A, Loh W, Feldman EF, and Bai PF. Systems pharmacology and transcriptomics analysis to identify signatures of drug-induced peripheral neuropathy. *US FDA Office of Clinical Pharmacology Science Day*. September 16, 2013. Silver Spring, Maryland. (*Poster*)
58. Sarntivijai S, **Hur J**, Ozgur A, He Y, Omenn GS, Athey BD, and Abernethy DR. An Ontology- and NLP-assisted Systems Pharmacology Analysis of Tyrosine Kinase Inhibitor Induced Cardiotoxicity. *US FDA Office of Clinical Pharmacology Science Day*. September 16, 2013. Silver Spring, Maryland. (*Poster*)
59. **Hur J**, Liu Z, Tong W, and Bai PF. Systems pharmacology-based network analysis of drug-induced rhabdomyolysis. *US FDA Office of Clinical Pharmacology Science Day*. September 16, 2013. Silver Spring, Maryland. (*Poster*)
60. Himeno T$^{\phi}$, Lunn SJ, Backus C, Robinson C, Pacut C, Hayes JM, Oh SS, Dauch JR, McLean LL, Hinder LM, **Hur J**, O'Brien PD, and Feldman EL. Increased Expression of Neuronal Progenitor Markers in Dorsal Root Ganglia of Diabetic Mice. *2013 Peripheral Nerve Society Biennial meeting*, June 29-July 3, 2013. Saint Malo, Brittany, France. (*Oral and poster presentation by* $^{\phi}$)
61. O'Brien PD$^{\phi}$, **Hur J**, Robell NJ, Hayes JM, Oh SS, Dauch JR, Hong Yu, and Feldman EL. Diabetic Neuropathy in the BTBR OB/OB Mouse. 2013 *Peripheral Nerve Society Biennial meeting*, June 29-July 3, 2013. Saint Malo, Brittany, France. (*Oral and poster presentation by* $^{\phi}$)
62. **Hur J**, Guo A, Loh W, Feldman EF and Bai PF. Systems pharmacology and

transcriptomics analysis to identify signatures of drug-induced peripheral neuropathy. *1st Annual FDA Scientific Computing Day*. July 14, 2013. Silver Spring, Maryland. (*Poster*)

63. **Hur J**, Liu Z, Tong W, and Bai PF. Systems pharmacology-based network analysis of drug-induced rhabdomyolysis. *1st Annual FDA Scientific Computing Day*. July 14, 2013. Silver Spring, Maryland. (*Poster*)
64. **Hur J**, Sullivan KA, Callaghan BC, Pop-Busui R, and Feldman EL. Identification of factors associated with sural nerve regeneration and degeneration in diabetic neuropathy. *American Diabetes Association 73rd Scientific Sessions*, June 21-25, 2013. Chicago, Illinois. (*Guided audio poster*)
65. O'Brien PD, **Hur J**, Robell NJ, Hayes JM, Oh SS, Dauch JR, Hong Yu, and Feldman EL. Neurological Complications of the BTBR OB/OB Mouse. *American Diabetes Association 73rd Scientific Sessions*, June 21-25, 2013. Chicago, Illinois. (*Poster*)
66. Figueroa-Romero C*, **Hur J***, Bender DE, Cataldo MD, Smith AL, Yung R, Callaghan BC, and Feldman EL. Identification of Epigenetically Altered Genes in Sporadic Amyotrophic Lateral Sclerosis. *Spring Symposium on Epigenetics 2013*, Ann Arbor, Michigan. (*Poster*)
67. Feldman EL$^{\phi}$, **Hur J**, Bender D, Backus C, Hayes JM, Pande M, Cheng T(2012) Inflammation in Diabetic Neuropathy. *Keystone Symposia Conference – Complications of Diabetes: Mechanisms of Injury and Failure Repair*, March 11-16, 2012. Boston, Massachusetts. (***Invited talk***; $^{\phi}$presenting author)
68. Sims-Robinson C, Zhao S, **Hur J**, and Feldman EL (2012) Hippocampal endoplasmic reticulum stress in a murine model of type 2 diabetes. *Keystone Symposia Conference – Complications of Diabetes: Mechanisms of Injury and Failure Repair*, March 11-16, 2012. Boston, Massachusetts. *(Poster)*
69. Pande M, **Hur J**, Hong Y, Backus C, Hayes JM, Oh S, Kretzler M, and Feldman EL (2011) Transcriptional Profiling of Diabetic neuropathy in the BKS *db/db* Mouse, a Mouse model of Type 2 Diabetes. *Peripheral Nerve Society Biennial Meeting*, June 25-29, 2011. Potomac, Maryland. *(Poster)*
70. Figueroa-Romero C, **Hur J**, Hong Y, Lunn JS, Pacut C, Delaney CE, Yung R, Callaghan BC, and Feldman EL. (2011) Identification of Epigenomic Modifications as Biomarkers for Amyotrophic Lateral Sclerosis.*136th American Neurological Association Annual Meeting*. September 25-28, 2011. San Diego, California. *(Poster)*
71. Figueroa-Romero C, **Hur J**, Hong Y, Lunn JS, Pacut C, Delaney CE, Yung R, Callaghan BC, and Feldman EL. (2011) Identification of Epigenomic Modifications as Biomarkers for Amyotrophic Lateral Sclerosis. *American Academy of Neurology*. April 9-16. 2011. Honolulu, Hawaii. *(Poster)*
72. Figueroa-Romero C, Pilsner JR., **Hur J**, and Feldman, EL. (2010) Epigenomics and Amyotrophic Lateral Sclerosis. *International Symposium on ALS/MND*. December 7-13, 2010. Orland, Florida. *(Poster)*
73. **Hur J**, Xiang Z, Feldman EL, and He Y (2010) Ontology-based Vaccine Literature Mining and Indexing, *18th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)*, Boston, Massachusetts. *(Poster)*
74. Pande M, **Hur J**, Sullivan KA, Kretzler M, and Feldman EL (2010) Transcriptional Profiling of Peripheral Neuropathy in Type 2 Diabetes Using db/db Mouse Model, *18th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)*, Boston, Massachusetts. *(Poster)*

75. Pande M, **Hur J**, Sullivan KA, Kretzler M, and Feldman EL (2010) Transcriptional Profiling of Peripheral Neuropathy in Type 2 Diabetes Using db/db Mouse Model, *5th National Center for Integrative Biomedical Informatics (NCIBI) 2010 Annual Research Meeting*, Ann Arbor, Michigan. *(Poster)*
76. Nair V, **Hur J**, Wiggin TD, Martini S, Brosius FC, Nelson R, Jagadish HV, Feldman EL, and Kretzler M (2009) Identification of Shared Regulatory Transcriptional Networks in Diabetic Nephropathy and Neuropathy, *American Society of Nephrology (ASN) 2009 Annual Meeting*, San Diego, California. *(Poster)*
77. **Hur J,** Kretzler M, Nair V, Jagadish HV, Sullivan KA, Anders SAA, and Feldman EL (2009) Gene Expression Profiles Predictive of Diabetic Neuropathy Progression, *American Neurological Association annual meeting 2009*, Baltimore, Maryland. *(Poster)*
78. **Hur J,** Schuyler AD, Backus C, Hayes JM, States DJ, Jagadish HV and Feldman EL (2009) Discovery of literature-derived diabetes- and ROS-related targets and examination of SOD1 as a novel mediator of diabetic neuropathy in mice, *NeuroDiab/ISDN 2009*, Toronto, Canada. *(Poster)*
79. Hinder LM, Wiggin TD, **Hur J**, Kretzler M, Pennathur S, and Feldman EL (2009) Bioinformatics discovery of genes relevant to diabetic neuropathy, *NeuroDiab/ISDN 2009*, Toronto, Canada. *(Poster)*
80. **Hur J,** Nair V, Wiggin TD, Kretzler M, Brosius FC, and Feldman EL (2009) Conserved regulatory network of diabetic neuropathy and nephropathy, *National Center for Integrated Biomedical Informatics Annual Research Meeting (NCIBI ARM) 2009*, Ann Arbor, Michigan. *(Poster)*
81. **Hur J,** Wiggin TD, Ade A, States DJ, and Feldman EL (2008) JUMiner: An online literature mining tool for target identification and functional enrichment analysis, *ISMB 2008***,** Toronto, Canada. *(Poster)*
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