

BIOGRAPHICAL SKETCH

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| NAME Bergeson, Susan E., Ph.D. | | POSITION TITLE Associate Professor | |
| EDUCATION/TRAINING | | | |
| INSTITUTION AND LOCATION | DEGREE | YEAR | FIELD OF STUDY |
| Univ. of North Dakota, Grand Forks, ND | B.S. | 1991 | Biol. & Physical Sci. |
| Oregon Health & Science University, Portland, OR | Ph.D. | 1997 | Biochem. & Mol. Biol. |
| VA Medical Center, & OHSU, Portland, OR | Postdoc. | 1997-2000 | Behav. Neuroscience |

A. Positions and Honors.

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|-----------------|--|
| 8-82 to 9-91 | Lab Technician/Biologist, University of North Dakota, Grand Forks, ND |
| 6-97 to 6-99 | NIAAA Postdoctoral Fellow, Oregon Health Sciences University, Portland, OR |
| 6-99 to 1-00 | NIDA Postdoctoral Fellow, Oregon Health Sciences University, Portland, OR |
| 1-00 to 8-07 | Assistant Professor WCAAR and Neurobiology, U. of Texas, Austin, TX |
| 9-07 to present | Associate Professor Pharmacology and Neuroscience, Texas Tech University Health Sciences Center, Lubbock, TX |
| 1990 | National Science Foundation Undergraduate Research Award, UND Grand Forks, ND |
| 1990-91 | Presidential Scholarship, Univ. of North Dakota |
| 1992 | Tartar Graduate Research Award |
| 1997-98 | NIAAA Postdoctoral Fellowship |
| 1999 | NIDA Postdoctoral NRSA |
| 2002 | University of Texas Waggoner Research Fellowship |
| 2002-07 | NIAAA KO1 career award |
| 2002-2006 | NIH LRP |
| 2002-2005 | Ad Hoc NIH reviewer |
| 2007-2010 | NIAAA study section member – AA1 |

B. Selected peer-reviewed publications of 29 total. (previous name: Laursen)

- Laursen SE, Knull HR and Belknap JK (1986). Sample preparation for inositol measurement: Sep-pak C18 use in detergent removal. *Anal. Biochem.* 153: 387-390.
- Laursen SE and Belknap JK (1986). Intracerebroventricular (i.c.v.) injections in mice: some methodological refinements. *J. Pharm. Methods.* 16 (4): 355-357.
- Belknap JK and Laursen SE (1987). DSLET (D-ser2-leu5-enkephalin-thr6) produces analgesia on the hot plate by mechanisms largely different from DAMGO and morphine-like opioids. *Life Sciences.* 41: 391-395.
- Belknap JK, Laursen SE and Crabbe JC (1987). Ethanol and nitrous oxide produce withdrawal-induced convulsions by similar mechanisms in mice. *Life Sciences.* 41: 2033-2040.
- Belknap JK, Laursen SE, Danielson PW and Crabbe JC (1988). Ethanol and diazepam withdrawal convulsions are extensively co-determined in WSP and WSR mice. *Life Sciences.* 44: 2075-2080.
- Laursen SE, Belknap JK, Sampson KE and Knull HR (1990). Hexokinase redistribution *in vivo*. *Biochem. Biophys. Acta.* 1034: 118-121.
- Belknap JK, Laursen SE, Sampson KE, and Wilkie A (1991). Where are the mu receptors that mediate opioid analgesia? An autoradiographic study in the HAR and LAR selection lines. *J of Addict. Dis.* 10: 29-44.
- Cogland VM, Bergeson SE, Langeberg L, Nilaver G and Scott JD (1993). A-kinase anchoring proteins: a key to selective activation of cAMP-responsive events? *Mol Cellr Biochem.* 127-128: 309-319.
- Rosenmund C, Carr DW, Bergeson SE, Nilaver G, Scott JD and Westbrook GL (1994). Anchoring of protein kinase A is required for modulation of AMPA/kainate receptors on hippocampal neurons. *Nature.* 368 (6474): 853-856.
- Belknap JK, Mogil JS, Helms ML, Richards SP, O'Toole LA, Bergeson SE and Buck KJ (1995). Localization to chromosome 10 of a locus influencing morphine analgesia in crosses derived from C57bl/6 and DBA/2 strains. *Life Sciences.* 57 (10): PL117-124.
- Jardim A*, Bergeson SE *, Shih S, Carter N, Lucas RW, Merlin G, Myler PJ and Ullman B (1999) Cloning and expression of xanthine phosphoribosyltransferase from *Leishmania donovani*. *J. Biol. Chem.* 274(48):34403-10. (*denotes equal authorship)

- Hain HS, Crabbe JC, Bergeson SE, and Belknap JK (2000) Quantitative trait loci (QTL) mapping of cocaine induced seizures in mice: genetic differences in the threshold dose of cocaine to induce clonic and tonic seizures. *J. Pharm. Exp. Ther.* 293(1): 180-187.
- Bergeson SE, Helms ML, O'Toole LA, Jarvis MW, Hain HS, Mogil JS and Belknap JK (2001) Quantitative trait loci influencing morphine antinociception in four mapping populations. *Mamm. Genome.* 12(7): 546-53.
- Bergeson SE, Warren RK, Crabbe JC, Metten P, Erwin VG and Belknap JK. (2003) Chromosomal loci influencing chronic alcohol withdrawal severity. *Mamm. Genome.* 23(22):8051-9.
- Findlay GS, Phelan R, Roberts MT, Homanics G, Bergeson SE, Lopreato G, Mihic SJ, Blednov YA, and Harris RA. (2003) Glycine receptor mutant knock-in mice exhibit a more dramatic hyperekplexia-like phenotype compared to the null mutation. *J. Neurosci.* 14(7):454-63.
- Diaz LM, Maiya R, Sullivan MA, Han Y, Walton HA, Boehm SL 2nd, Bergeson SE, Mayfield RD, Morrisett RA. Sindbis viral-mediated expression of eGFP-dopamine D1 receptors in situ with real-time two-photon microscopic detection. (2004) *J Neurosci Methods.* 139(1):25-31.
- Javors MA, Seneviratne C, Roache JD, Ait-Daoud N, Bergeson SE, Walss-Bass MC, Akhtar FZ, Johnson BA. Platelet serotonin uptake and paroxetine binding among allelic genotypes of the serotonin transporter in alcoholics. (2005) *Prog Neuropsychopharmacol Biol Psychiatry.* 29(1):7-13.
- Bergeson SE, Berman AE, Dodd PR, Edenberg HJ, Hitzemann RJ, Lewohl JM, Lodowski KH, Sommer W. Expression Profiling in Alcoholism Research. (2005) *Alcohol Clin. Exp. Res.*, 29(6):1066-1073.
- YA Blednov, SE Bergeson, D Walker, VMM Ferreira, WA Kuziel, and RA Harris Perturbation of chemokine networks by gene deletion alters the reinforcing actions of ethanol. (2005) *Beh. Brain Res.*, 165(1):110-25.
- YA Blednov, P Metten, DA Finn, JS Rhodes, SE Bergeson, RA Harris, and JC Crabbe. Hybrid C57Bl/6J x FVB/NJ mice drink more alcohol than C57Bl/6J. (2005) *Alcohol Clin. Exp. Res.*, 29(11):1949-58.
- Corbin WR, Fromme K, and Bergeson SE. Preliminary data on the association among the serotonin transporter polymorphism, subjective alcohol experiences, and drinking behavior. (2006) *J of Studies on Alcohol* 67(1):5-13.
- Mulligan MK, Ponomarev I, Hitzemann RJ, Belknap JK, Tabakoff B, Harris RA, Crabbe JC, Blednov YA, Grahame NJ, Phillips TJ, Finn DA, Hoffman PL, Iyer VR, Koob GF, Bergeson SE Toward Understanding the Genetics of Alcohol Drinking Through Transcriptome Meta-analysis (2006) *PNAS.* 103(16):6368-6373.
- Ponomarev I, Maiya R, Harnett MT, Schafer GL, Ryabinin AE, Blednov YA, Morikawa H, Boehm SL 2nd, Homanics GE, Berman AE, Lodowski KH, Bergeson SE, Harris RA. (2006) Transcriptional signatures of cellular plasticity in mice lacking the alpha1 subunit of GABAA receptors. *J Neurosci.* 26(21):5673-83.
- Ramazani RB, Krishnan HR, Bergeson SE and Atkinson NS. (2007) Computer automated movement detection for the analysis of behavior. *J. Neurosci. Methods.*, 162:171-9.
- Job MO, Tang A, Hall FS, Sora I, Uhl GR, Bergeson SE, and Gonzales RA. (2007) μ Opioid Receptor Regulation of Ethanol-induced Dopamine Response in the Ventral Striatum: Evidence of Genotype Specific Sexual Dimorphic Epistasis. *Biol. Psychiatry*, 62(1-2):627-34.
- Song M, Lewis CK, Lance ER, Chesler EJ, Kirova R, Langston MA, and Bergeson SE (2007) Inferring transcriptional networks from temporal mouse brain gene expression data. *FOSBE*, In Press.

C. Research Support

Ongoing Research Support

| | | |
|---|-------------------------|---------------|
| NIH UO1AA013475-10 | 09/27/2001 – 08/31/2011 | Bergeson (PI) |
| Molecular Basis of Excessive Alcohol Drinking | | |

Completed Research Support

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| NIH KO1AA013403 | 03/01/2002 – 02/28/2007 | Bergeson (PI) |
| Genetic and Alcohol Regulation of Brain RNA Levels | | |

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| NIH R21AA013182 | 09/01/2001 – 06/30/2004 | Bergeson (PI) |
| Microarray Analysis of Alcohol Withdrawal Syndrome | | |

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|---|-------------------------|---------------|
| NIH F32DA005925 | 06/01/1999 – 01/15/2000 | Bergeson (PI) |
| Gene Mapping for Sensitivity to Amphetamine | | |