



Adolf Pfefferbaum

Professor of Psychiatry and Behavioral Sciences, Emeritus

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Psychiatry and Behavioral Sciences
- Member, Bio-X

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Abnormalities in brain structure and function in healthy aging, alcoholism, HIV infection, and Alzheimer's Disease; diffusion tensor imaging of white matter microstructure in alcoholism; spectroscopic analysis of brain metabolite concentrations in alcoholism and HIV infection; functional neuroimaging of cognitive networks in alcoholism.

Publications

PUBLICATIONS

- **Recent drinking in alcohol use disorder as a modifiable risk factor of postural tremor and instability in mild cognitive impairment: An initial study.** *Alcohol, clinical & experimental research*
Sullivan, E. V., Sassoon, S. A., Fama, R., Leonard, M., Zahr, N. M., Pfefferbaum, A.
2025
- **Socioemotional and Executive Control Mismatch in Adolescence and Risks for Initiating Drinking.** *JAMA network open*
Zhao, Q., Milecki, L., Kuceyeski, A., Grosenick, L., Brumback, T., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2025; 8 (9): e2531378
- **Physiological and brain mechanisms contributing to postural tremor in aging with and without alcohol use disorder.** *Translational psychiatry*
Sullivan, E. V., Sassoon, S. A., Pohl, K. M., Saranathan, M., Zahr, N. M., Pfefferbaum, A.
2025; 15 (1): 338
- **Identifying unique pathways towards heavy alcohol drinking during adolescence**
Gonzalez, C., Nguyen-Louie, T., Sullivan, E., Pfefferbaum, A., Zhao, Q., Adeli, E., Tapert, S., Pohl, K.
WILEY.2025
- **Postural instability in alcohol use disorder: Relations to thalamic regional and nuclear volumes**
Sassoon, S., Fama, R., Saranathan, M., Pohl, K., Sullivan, E., Pfefferbaum, A.
WILEY.2025
- **Thalamic Nuclear Volumes in Fetal Alcohol Spectrum Disorders: from Adolescence to Middle-Age 20 Years Later.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Pfefferbaum, A., Sullivan, E. V., Saranathan, M., Pohl, K. M., Bischoff-Grethe, A., Stoner, S. A., Riley, E. P.

2025

- **Aging, HIV infection, and alcohol exert synergist effects on regional thalamic volumes resulting in functional impairment.** *NeuroImage. Clinical*
Pfefferbaum, A., Zahr, N. M., Sassoon, S. A., Fama, R., Saranathan, M., Pohl, K. M., Sullivan, E. V.
2024; 44: 103684
- **Multi-dimensional predictors of first drinking initiation and regular drinking onset in adolescence: A prospective longitudinal study.** *Developmental cognitive neuroscience*
Nguyen-Louie, T. T., Thompson, W. K., Sullivan, E. V., Pfefferbaum, A., Gonzalez, C., Ebersson-Shumate, S. C., Wade, N. E., Clark, D. B., Nagel, B. J., Baker, F. C., Luna, B., Nooner, K. B., de Zambotti, et al
2024; 69: 101424
- **Serum albumin and white matter hyperintensities.** *Translational psychiatry*
Zahr, N. M., Pfefferbaum, A.
2024; 14 (1): 233
- **Contributions of Cerebral White Matter Hyperintensities to Postural Instability in Aging with and without Alcohol Use Disorder.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Sullivan, E. V., Zahr, N. M., Zhao, Q., Pohl, K. M., Sassoon, S. A., Pfefferbaum, A.
2024
- **Contributions of cerebral white matter hyperintensities, age, and pedal perception to postural sway in people living with HIV.** *AIDS (London, England)*
Sullivan, E. V., Zahr, N. M., Zhao, Q., Pohl, K. M., Sassoon, S. A., Pfefferbaum, A.
2024
- **Frontal cortical volume deficits as enduring evidence of childhood abuse in community adults with AUD and HIV infection comorbidity.** *Neurobiology of stress*
Sassoon, S. A., Fama, R., Pohl, K. M., Pfefferbaum, A., Sullivan, E. V.
2024; 29: 100608
- **Brain Volume in Fetal Alcohol Spectrum Disorders Over a 20-Year Span.** *JAMA network open*
Pfefferbaum, A., Sullivan, E. V., Pohl, K. M., Bischoff-Grethe, A., Stoner, S. A., Moore, E. M., Riley, E. P.
2023; 6 (11): e2343618
- **White matter microstructural integrity continues to develop from adolescence to young adulthood in mice and humans: Same phenotype, different mechanism.** *Neuroimage. Reports*
Piekarski, D. J., Zahr, N. M., Zhao, Q., Ferizi, U., Pohl, K. M., Sullivan, E. V., Pfefferbaum, A.
2023; 3 (3)
- **Age-Accelerated Increase of White Matter Hyperintensity Volumes is Exacerbated by Heavy Alcohol Use in People Living with HIV.** *Biological psychiatry*
Pfefferbaum, A., Zhao, Q., Pohl, K. M., Sassoon, S. A., Zahr, N. M., Sullivan, E. V.
2023
- **Postural instability in HIV infection: relation to central and peripheral nervous system markers.** *AIDS (London, England)*
Sullivan, E. V., Zahr, N. M., Sassoon, S. A., Pohl, K. M., Pfefferbaum, A.
2023
- **Multi-atlas thalamic nuclei segmentation on standard T1-weighted MRI with application to normal aging.** *Human brain mapping*
Pfefferbaum, A., Sullivan, E. V., Zahr, N. M., Pohl, K. M., Saranathan, M.
2022
- **Attenuated cerebral blood flow in frontolimbic and insular cortices in Alcohol Use Disorder: Relation to working memory.** *Journal of psychiatric research*
Sullivan, E. V., Zhao, Q. n., Pohl, K. M., Zahr, N. M., Pfefferbaum, A. n.
2021; 136: 140–48
- **White matter microstructural recovery with abstinence and decline with relapse in alcohol dependence interacts with normal ageing: a controlled longitudinal DTI study** *LANCET PSYCHIATRY*
Pfefferbaum, A., Rosenbloom, M. J., Chu, W., Sassoon, S. A., Rohlfing, T., Pohl, K. M., Zahr, N. M., Sullivan, E. V.

2014; 1 (3): 202-212

- **Structural brain recovery following reductions in adolescent and young adult binge drinking: A longitudinal NCANDA study.** *Developmental cognitive neuroscience*
Gonzalez, M. R., Brumback, T., Wickershiem, M. K., Sullivan, E. V., Pfefferbaum, A., Clark, D. B., Goldston, D. B., Meloy, M. J., Naber, F., Müller-Oehring, E. M., Morales, A. M., Baker, F. C., Nooner, et al
2025; 77: 101653
- **Mutual age-varying influences of binge drinking and cannabis use during emerging adulthood in the NCANDA cohort.** *Alcohol, clinical & experimental research*
Waddell, J. T., Brumback, T., Baker, F. C., Cheek, S., Clark, D. B., Goldston, D. B., Grove, J. L., Nagel, B. J., Nooner, K. B., Pfefferbaum, A., Pohl, K. M., Sullivan, E. V., Tapert, et al
2025
- **Risks and effects of alcohol use during dual-system brain and cognitive development in adolescence and young adulthood**
Zhao, Q., Milecki, L., Pfefferbaum, A., Sullivan, E., Pohl, K.
WILEY.2025
- **Multi-domain predictors of grip strength differentiate individuals with and without alcohol use disorder.** *Addiction biology*
Paschali, M., Zhao, Q., Sassoon, S. A., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2024; 29 (11): e70007
- **Anterior and Posterior Thalamic Volumes Differentially Correlate with Memory, Attention, and Motor Processes in HIV Infection and Alcohol Use Disorder Comorbidity.** *Brain research bulletin*
Fama, R., Sassoon, S. A., Müller-Oehring, E. M., Saranathan, M., Pohl, K. M., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V.
2024: 111085
- **Memorial of Kenneth R. Warren, 1943-2024.** *Alcohol, clinical & experimental research*
Riley, E. P., Pfefferbaum, A., Sullivan, E. V., Charness, M. E.
2024
- **Metadata-conditioned generative models to synthesize anatomically-plausible 3D brain MRIs.** *Medical image analysis*
Peng, W., Bosschieter, T., Ouyang, J., Paul, R., Sullivan, E. V., Pfefferbaum, A., Adeli, E., Zhao, Q., Pohl, K. M.
2024; 98: 103325
- **Identifying high school risk factors that forecast heavy drinking onset in understudied young adults.** *Developmental cognitive neuroscience*
Zhao, Q., Paschali, M., Dehoney, J., Baker, F. C., de Zambotti, M., De Bellis, M. D., Goldston, D. B., Nooner, K. B., Clark, D. B., Luna, B., Nagel, B. J., Brown, S. A., Tapert, et al
2024; 68: 101413
- **Identifying the role of (dis)inhibition in the vicious cycle of substance use through ecological momentary assessment and resting-state fMRI.** *Translational psychiatry*
Chirokoff, V., Berthoz, S., Fatseas, M., Misdrahi, D., Dupuy, M., Abdallah, M., Serre, F., Auriacombe, M., Pfefferbaum, A., Sullivan, E. V., Chanraud, S.
2024; 14 (1): 260
- **Multi-level prediction of substance use: Interaction of white matter integrity, resting-state connectivity and inhibitory control measured repeatedly in every-day life.** *Addiction biology*
Chirokoff, V., Pohl, K. M., Berthoz, S., Fatseas, M., Misdrahi, D., Serre, F., Auriacombe, M., Pfefferbaum, A., Sullivan, E. V., Chanraud, S.
2024; 29 (5): e13400
- **Investigating the origin of the¹³C lactate signal in the anesthetized healthy rat brain in vivo after hyperpolarized [1-¹³C]pyruvate injection.** *NMR in biomedicine*
Zhu, M., Jhajharia, A., Josan, S., Park, J. M., Yen, Y., Pfefferbaum, A., Hurd, R. E., Spielman, D. M., Mayer, D.
2023: e5073
- **Poor subjective sleep reported by people living with HIV is associated with impaired working memory.** *NeuroImmune pharmacology and therapeutics*
Zahr, N. M., Sullivan, E. V., Pfefferbaum, A.
2023; 2 (2): 127-137

- **Influence of childhood trauma, HIV infection, alcohol use disorder, and resilience on health-related quality of life in adulthood.** *Journal of psychiatric research*
Sassoon, S. A., Fama, R., Le Berre, A., Muller-Oehring, E. M., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V.
2023; 163: 230-239
- **Episodic memory deficit in HIV infection: common phenotype with Parkinson's disease, different neural substrates.** *Brain structure & function*
Fama, R., Müller-Oehring, E. M., Levine, T. F., Sullivan, E. V., Sassoon, S. A., Asok, P., Brontë-Stewart, H. M., Poston, K. L., Pohl, K. M., Pfefferbaum, A., Schulte, T.
2023
- **Serum biomarkers of liver fibrosis identify changes in striatal metabolite levels.** *Research square*
Zahr, N., Sullivan, E., Pfefferbaum, A.
2023
- **Serum Biomarkers of Liver Fibrosis Identify Changes to Striatal Metabolites Consistent With Lipid Accumulation**
Zahr, N., Sullivan, E., Pfefferbaum, A.
SPRINGERNATURE.2022: 166-167
- **Serum Biomarkers of Liver Fibrosis Identify Changes to Striatal Metabolites Consistent With Lipid Accumulation**
Zahr, N., Sullivan, E., Pfefferbaum, A.
SPRINGERNATURE.2022: 166-167
- **Alcohol's effects on the mouse brain are modulated by age and sex** *ADDICTION BIOLOGY*
Piekarski, D. J., Zahr, N. M., Zhao, Q., Sullivan, E., Pfefferbaum, A.
2022; 27 (5)
- **Alcohol's effects on the mouse brain are modulated by age and sex.** *Addiction biology*
Piekarski, D. J., Zahr, N. M., Zhao, Q., Sullivan, E. V., Pfefferbaum, A.
2022; 27 (5): e13209
- **Earlier Bedtime and Effective Coping Skills Predict a Return to Low-Risk of Depression in Young Adults during the COVID-19 Pandemic.** *International journal of environmental research and public health*
Zhao, Q., Wang, K., Kiss, O., Yuksel, D., de Zambotti, M., Clark, D. B., Goldston, D. B., Nooner, K. B., Brown, S. A., Tapert, S. F., Thompson, W. K., Nagel, B. J., Pfefferbaum, et al
2022; 19 (16)
- **Poor subjective sleep predicts compromised quality of life but not cognitive impairment in abstinent individuals with Alcohol Use Disorder.** *Alcohol (Fayetteville, N.Y.)*
Piekarski, D., Sullivan, E. V., Pfefferbaum, A., Zahr, N. M.
2022
- **Alcohol use disorder: Neuroimaging evidence for accelerated aging of brain morphology and hypothesized contribution to age-related dementia.** *Alcohol (Fayetteville, N.Y.)*
Sullivan, E. V., Pfefferbaum, A.
2022
- **Prior test experience confounds longitudinal tracking of adolescent cognitive and motor development.** *BMC medical research methodology*
Sullivan, E. V., Thompson, W. K., Brumback, T., Prouty, D., Tapert, S. F., Brown, S. A., De Bellis, M. D., Nooner, K. B., Baker, F. C., Colrain, I. M., Clark, D. B., Nagel, B. J., Pohl, et al
2022; 22 (1): 177
- **A prospective study revealing a compounded burden of COVID-19, sex, and clinical diagnosis of alcohol use disorder and HIV infection on quality of life, anxiety, and alcohol use.** *Journal of psychiatric research*
Lannoy, S., Fama, R., Sassoon, S. A., Le Berre, A., Asok, P., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V.
2022; 152: 152-159
- **Disruption of cerebellar-cortical functional connectivity predicts balance instability in alcohol use disorder.** *Drug and alcohol dependence*
Müller-Oehring, E. M., Schulte, T., Pfefferbaum, A., Sullivan, E. V.
2022; 235: 109435

- **Systemic Administration of the TLR7/8 Agonist Resiquimod (R848) to Mice Is Associated with Transient, In Vivo-Detectable Brain Swelling.** *Biology*
Zahr, N. M., Zhao, Q., Goodcase, R., Pfefferbaum, A.
2022; 11 (2)
- **Aging Accelerates Postural Instability in HIV Infection: Contributing Sensory Biomarkers.** *Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology*
Sullivan, E. V., Zahr, N. M., Sassoon, S. A., Pfefferbaum, A.
2022
- **Growth Trajectories of Cognitive and Motor Control in Adolescence: How Much Is Development and How Much Is Practice?** *NEUROPSYCHOLOGY*
Lannoy, S., Pfefferbaum, A., Le Berre, A., Thompson, W. K., Brumback, T., Schulte, T., Pohl, K. M., De Bellis, M. D., Nooner, K. B., Baker, F. C., Prouty, D., Colrain, I. M., Nagel, et al
2021
- **Risk for depression tripled during the COVID-19 pandemic in emerging adults followed for the last 8 years.** *Psychological medicine*
Alzueta, E., Podhajsky, S., Zhao, Q., Tapert, S. F., Thompson, W. K., de Zambotti, M., Yuksel, D., Kiss, O., Wang, R., Volpe, L., Prouty, D., Colrain, I. M., Clark, et al
2021: 1-8
- **Multi-label, multi-domain learning identifies compounding effects of HIV and cognitive impairment.** *Medical image analysis*
Zhang, J., Zhao, Q., Adeli, E., Pfefferbaum, A., Sullivan, E. V., Paul, R., Valcour, V., Pohl, K. M.
2021; 75: 102246
- **Self-Supervised Longitudinal Neighbourhood Embedding.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Ouyang, J., Zhao, Q., Adeli, E., Sullivan, E. V., Pfefferbaum, A., Zaharchuk, G., Pohl, K. M.
2021; 12902: 80-89
- **Memory impairment in alcohol use disorder is associated with regional frontal brain volumes.** *Drug and alcohol dependence*
Fama, R., Le Berre, A., Sassoon, S. A., Zahr, N. M., Pohl, K. M., Pfefferbaum, A., Sullivan, E. V.
2021; 228: 109058
- **GROWTH TRAJECTORIES OF COGNITIVE AND MOTOR CONTROL IN ADOLESCENCE: HOW MUCH IS DEVELOPMENT AND HOW MUCH IS PRACTICE?**
Lannoy, S.
WILEY.2021: 188A
- **Longitudinal Pooling & Consistency Regularization to Model Disease Progression From MRIs.** *IEEE journal of biomedical and health informatics*
Ouyang, J., Zhao, Q., Sullivan, E. V., Pfefferbaum, A., Tapert, S. F., Adeli, E., Pohl, K. M.
2021; 25 (6): 2082-2092
- **Preliminary Evidence for a Relationship between Elevated Plasma TNF α and Smaller Subcortical White Matter Volume in HCV Infection Irrespective of HIV or AUD Comorbidity.** *International journal of molecular sciences*
Zahr, N. M., Pohl, K. M., Kwong, A. J., Sullivan, E. V., Pfefferbaum, A.
2021; 22 (9)
- **Preliminary Evidence for a Relationship between Elevated Plasma TNF alpha and Smaller Subcortical White Matter Volume in HCV Infection Irrespective of HIV or AUD Comorbidity** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
Zahr, N. M., Pohl, K. M., Kwong, A. J., Sullivan, E. V., Pfefferbaum, A.
2021; 22 (9)
- **Rates of Incidental Findings in Brain Magnetic Resonance Imaging in Children.** *JAMA neurology*
Li, Y., Thompson, W. K., Reuter, C., Nillo, R., Jernigan, T., Dale, A., Sugrue, L. P., ABCD Consortium, Brown, J., Dougherty, R. F., Rauschecker, A., Rudie, J., Barch, D. M., et al
2021
- **Altered Cerebro-Cerebellar Dynamic Functional Connectivity in Alcohol Use Disorder: a Resting-State fMRI Study.** *Cerebellum (London, England)*

- Abdallah, M., Zahr, N. M., Saranathan, M., Honnorat, N., Farrugia, N., Pfefferbaum, A., Sullivan, E. V., Chanraud, S.
2021
- **Performance ramifications of abnormal functional connectivity of ventral posterior lateral thalamus with cerebellum in abstinent individuals with Alcohol Use Disorder.** *Drug and alcohol dependence*
Honorat, N. n., Saranathan, M. n., Sullivan, E. V., Pfefferbaum, A. n., Pohl, K. M., Zahr, N. M.
2021; 220: 108509
 - **Self-supervised Longitudinal Neighbourhood Embedding**
Ouyang, J., Zhao, Q., Adeli, E., Sullivan, E., Pfefferbaum, A., Zaharchuk, G., Pohl, K. M.
edited by DeBuijine, M., Cattin, P. C., Cotin, S., Padoy, N., Speidel, S., Zheng, Y., Essert, C.
SPRINGER INTERNATIONAL PUBLISHING AG.2021: 80-89
 - **Representation Learning with Statistical Independence to Mitigate Bias.** *IEEE Winter Conference on Applications of Computer Vision. IEEE Winter Conference on Applications of Computer Vision*
Adeli, E., Zhao, Q., Pfefferbaum, A., Sullivan, E. V., Fei-Fei, L., Niebles, J. C., Pohl, K. M.
2021; 2021: 2512-2522
 - **Quantifying Parkinson's disease motor severity under uncertainty using MDS-UPDRS videos.** *Medical image analysis*
Lu, M., Zhao, Q., Poston, K. L., Sullivan, E. V., Pfefferbaum, A., Shahid, M., Katz, M., Kouhsari, L. M., Schulman, K., Milstein, A., Niebles, J. C., Henderson, V. W., Fei-Fei, et al
2021; 73: 102179
 - **Association of Heavy Drinking With Deviant Fiber Tract Development in Frontal Brain Systems in Adolescents.** *JAMA psychiatry*
Zhao, Q., Sullivan, E. V., Honnorat, N., Adeli, E., Podhajsky, S., De Bellis, M. D., Voyvodic, J., Nooner, K. B., Baker, F. C., Colrain, I. M., Tapert, S. F., Brown, S. A., Thompson, et al
2020
 - **Alcohol Use Disorder and Its Comorbidity With HIV Infection Disrupts Anterior Cingulate Cortex Functional Connectivity.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Honorat, N., Fama, R., Muller-Oehring, E. M., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2020
 - **Spatio-Temporal Graph Convolution for Resting-State fMRI Analysis.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Gadgil, S., Zhao, Q., Pfefferbaum, A., Sullivan, E. V., Adeli, E., Pohl, K. M.
2020; 12267: 528–38
 - **Inpainting Cropped Diffusion MRI using Deep Generative Models.** *PRedictive Intelligence in MEdicine. PRIME (Workshop)*
Ayub, R., Zhao, Q., Meloy, M. J., Sullivan, E. V., Pfefferbaum, A., Adeli, E., Pohl, K. M.
2020; 12329: 91-100
 - **Vision-based Estimation of MDS-UPDRS Gait Scores for Assessing Parkinson's Disease Motor Severity.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Lu, M., Poston, K., Pfefferbaum, A., Sullivan, E. V., Fei-Fei, L., Pohl, K. M., Niebles, J. C., Adeli, E.
2020; 12263: 637–47
 - **Deep Parametric Mixtures for Modeling the Functional Connectome.** *PRedictive Intelligence in MEdicine. PRIME (Workshop)*
Honorat, N., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2020; 12329: 133–43
 - **Deep Learning Identifies Morphological Determinants of Sex Differences in the Pre-Adolescent Brain.** *NeuroImage*
Adeli, E., Zhao, Q., Zahr, N. M., Goldstone, A., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2020: 117293
 - **Effects of age, sex, and puberty on neural efficiency of cognitive and motor control in adolescents** *BRAIN IMAGING AND BEHAVIOR*
Schulte, T., Hong, J., Sullivan, E. V., Pfefferbaum, A., Baker, F. C., Chu, W., Prouty, D., Kwon, D., Meloy, M. J., Brumback, T., Tapert, S. F., Colrain, I. M., Muller-Oehring, et al
2020; 14 (4): 1089–1107

- **Accelerated aging and motor control deficits are related to regional deformation of central cerebellar white matter in alcohol use disorder** *ADDICTION BIOLOGY*
Zhao, Q., Pfefferbaum, A., Podhajsky, S., Pohl, K. M., Sullivan, E. V.
2020; 25 (3)
- **Corrigendum: Graded Cerebellar Lobular Volume Deficits in Adolescents and Young Adults with Fetal Alcohol Spectrum Disorders (FASD).** *Cerebral cortex (New York, N.Y. : 1991)*
Sullivan, E. V., Moore, E. M., Lane, B., Pohl, K. M., Riley, E. P., Pfefferbaum, A.
2020
- **Graded Cerebellar Lobular Volume Deficits in Adolescents and Young Adults with Fetal Alcohol Spectrum Disorders (FASD).** *Cerebral cortex (New York, N.Y. : 1991)*
Sullivan, E. V., Moore, E. M., Lane, B., Pohl, K. M., Riley, E. P., Pfefferbaum, A.
2020
- **Regional growth trajectories of cortical myelination in adolescents and young adults: longitudinal validation and functional correlates** *BRAIN IMAGING AND BEHAVIOR*
Kwon, D., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2020; 14 (1): 242–66
- **Disturbed sensory physiology underlies poor balance and disrupts activities of daily living in alcohol use disorder.** *Addiction biology*
Sullivan, E. V., Zahr, N. M., Sassoon, S. A., Pfefferbaum, A. n.
2020: e12966
- **Structural and biochemical imaging reveals systemic LPS-induced changes in the rat brain.** *Journal of neuroimmunology*
Fritz, M. n., Klawonn, A. M., Zhao, Q. n., Sullivan, E. V., Zahr, N. M., Pfefferbaum, A. n.
2020; 348: 577367
- **Adolescent alcohol use disrupts functional neurodevelopment in sensation seeking girls.** *Addiction biology*
Zhao, Q. n., Sullivan, E. V., Müller-Oehring, E. M., Honnorat, N. n., Adeli, E. n., Podhajsky, S. n., Baker, F. C., Colrain, I. M., Prouty, D. n., Tapert, S. F., Brown, S. A., Meloy, M. J., Brumback, et al
2020: e12914
- **Multi-modal imaging reveals differential brain volumetric, biochemical, and white matter fiber responsivity to repeated intermittent ethanol vapor exposure in male and female rats.** *Neuropharmacology*
Zahr, N. M., Lenart, A. M., Karpf, J. A., Casey, K. M., Pohl, K. M., Sullivan, E. V., Pfefferbaum, A. n.
2020: 108066
- **Age differences in brain structural and metabolic responses to binge ethanol exposure in fisher 344 rats.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
Zahr, N. M., Sullivan, E. V., Pohl, K. M., Pfefferbaum, A. n.
2020
- **Jacobian Mapping Reveals Converging Substrates of Disruption and Repair in Response to Ethanol Exposure and Abstinence in Two Strains of Rats.** *Alcoholism, clinical and experimental research*
Zhao, Q. n., Pohl, K. M., Sullivan, E. V., Pfefferbaum, A. n., Zahr, N. M.
2020
- **Pattern of Cerebellar Lobular Volume Deficits in Adolescents and Adults With Fetal Alcohol Effects (FAE) and Fetal Alcohol Syndrome (FAS)**
Sullivan, E., Moore, E., Pohl, K., Riley, E., Pfefferbaum, A.
NATURE PUBLISHING GROUP.2019: 281–82
- **Confounder-Aware Visualization of ConvNets.** *Machine learning in medical imaging. MLMI (Workshop)*
Zhao, Q., Adeli, E., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2019; 11861: 328–36
- **Covariance Shrinkage for Dynamic Functional Connectivity.** *Connectomics in neuroImaging : third International Workshop, CNI 2019, held in conjunction with MICCAI 2019, Shenzhen, China, October 13, 2019, Proceedings. CNI (Workshop) (3rd : 2019 : Shenzhen Shi, China)*
Honorat, N., Adeli, E., Zhao, Q., Pfefferbaum, A., Sullivan, E. V., Pohl, K.
2019; 11848: 32–41

- **Disturbed Cerebellar Growth Trajectories in Adolescents Who Initiate Alcohol Drinking.** *Biological psychiatry*
Sullivan, E. V., Brumback, T., Tapert, S. F., Brown, S. A., Baker, F. C., Colrain, I. M., Prouty, D., De Bellis, M. D., Clark, D. B., Nagel, B. J., Pohl, K. M., Pfefferbaum, A.
2019
- **Disociable Contributions of Precuneus and Cerebellum to Subjective and Objective Neuropathy in HIV** *JOURNAL OF NEUROIMMUNE PHARMACOLOGY*
Zahr, N. M., Pohl, K. M., Pfefferbaum, A., Sullivan, E.
2019; 14 (3): 436–47
- **Brain-Behavior Relations and Effects of Aging and Common Comorbidities in Alcohol Use Disorder: A Review** *NEUROPSYCHOLOGY*
Sullivan, E., Pfefferbaum, A.
2019; 33 (6): 760–80
- **CNS Correlates of "Objective" Neuropathy in Alcohol Use Disorder.** *Alcoholism, clinical and experimental research*
Zahr, N. M., Pohl, K. M., Pfefferbaum, A., Sullivan, E. V.
2019
- **Cognitive and Motor Impairment Severity Related to Signs of Subclinical Wernicke's Encephalopathy in HIV Infection** *JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES*
Le Berre, A., Fama, R., Sassoan, S. A., Pfefferbaum, A., Sullivan, E. V., Zahr, N. M.
2019; 81 (3): 345–54
- **Prospective Study of Adolescents Reveals Disturbed Trajectories of Frontal Cortical and Cerebellar Volumes Following Initiation of Drinking**
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