



## Eva Maria Muller-Oehring

Sr Research Scholar, Neurology

### Professional

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#### PROFESSIONAL INTERESTS

My current research is focused on advancing our understanding on 'how the human brain works' by studying the relationship between brain structure and function using multimodal imaging approaches (e.g., MRI, DTI, rsMRI, fMRI) in healthy and degraded brain systems.

**HEALTHY AGING AND AGING WITH DISEASE:** One research focus is on the cognitive and motor neurofunctional changes in healthy aging, neurodegeneration in people living with HIV infection (PLWH) and Parkinson's disease (PD). Despite the many challenges, some HIV patients manage to age successfully, most likely by redistribution of neural network resources to enhance function, as occurs in healthy elderly; such compensation could be curtailed by emerging Parkinsonism. This collaborative research between SRI International, Stanford Psychiatry, and Stanford Neurology aims at gaining a better understanding of the neurodegenerative and neuroadaptive processes that occur with healthy aging, PLWH and PD, risk for cognitive decline and functional impairment.

**ALCOHOL ADDICTION:** Another research focus is on the effects of alcohol use and addiction on brain structure and function. Executive control functions are disturbed in addiction, and interact with attention, emotion, and reward functions. This research focuses on the neurofunctional mechanisms of attentional bias (incentive salience, emotional and alcohol cues) and negative priming, and their role for relapse and the treatment of alcohol use disorder (AUD). In collaboration with the sleep lab at SRI International, I investigate sleep physiology and neural emotion regulation pathways to determine whether the rapid eye movement sleep-emotion regulation link is dysfunctional in AUD and whether a greater capacity to adjust emotion regulation, reflecting a more functionally-intact system, is associated with lower craving and addiction behaviors. My research uses multimodal neuroimaging derived connectivity measures to identify structural and functional neurocircuits compromised in AUD, and those that may serve functional recovery with abstinence.

**ADOLESCENT BRAIN DEVELOPMENT:** A recent research focus is on adolescent brain functional development. The transition from adolescence to adult cognitive maturity and emotional control is marked by dynamic neurodevelopmental plasticity. In collaboration with SRI International, my research aims to identify specific patterns of altered neural responses in adolescent girls and boys with depressed mood and whether socio-emotional peer interactions and sleep disturbances moderate the association between neural responses and depressive symptom severity. I am part of two consortium studies: the National Consortium on Alcohol and NeuroDevelopment in Adolescence-Adulthood (NCANDA-A) and Adolescent Brain Cognitive Development (ABCD).

### Publications

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#### PUBLICATIONS

- **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

- **A longitudinal study of the relationship between alcohol-related blackouts and attenuated structural brain development.** *Developmental cognitive neuroscience*  
Lorkiewicz, S. A., Müller-Oehring, E. M., Baker, F. C., Elkins, B. V., Schulte, T.  
2024; 69: 101448
- **Researching COVID to enhance recovery (RECOVER) pediatric study protocol: Rationale, objectives and design.** *PloS one*  
Gross, R. S., Thaweethai, T., Rosenzweig, E. B., Chan, J., Chibnik, L. B., Cicek, M. S., Elliott, A. J., Flaherman, V. J., Foulkes, A. S., Gage Witvliet, M., Gallagher, R., Gennaro, M. L., Jernigan, et al  
2024; 19 (5): e0285635
- **EFFECTS OF SLEEP BEHAVIOR, OBESITY, AND SEX ON WELL-BEING AND MENTAL HEALTH PROBLEMS IN ADOLESCENTS**  
Harkness, A., Perez-Amparan, E., Camacho, L., Fan, R., Kerr, E., Arra, N., Durley, I., Tager, L., Bland-Boyd, B., Muller-Oehring, E., Nagata, J., Baker, F., Kiss, et al  
OXFORD UNIV PRESS INC.2024
- **INTERCONNECTED DYNAMICS OF SLEEP DURATION, SOCIAL MEDIA ENGAGEMENT, AND NEURAL REWARD RESPONSES IN ADOLESCENTS**  
Kiss, O., Zhang, L., Muller-Oehring, E., Bland-Boyd, B., Harkness, A., Kerr, E., Durley, I., Arra, N., Camacho, L., Tager, L., Fan, R., Perez-Amparan, E., Gombert, et al  
OXFORD UNIV PRESS INC.2024
- **COMPARING YOUTH-REPORTED, CAREGIVER-REPORTED AND FITBIT SLEEP MEASURES IN A LARGE EARLY ADOLESCENT SAMPLE**  
Kiss, O., Shaska, A., Camacho, L., Harkness, A., Tager, L., Fan, R., Perez-Amparan, E., Kerr, E., Arra, N., Durley, I., Mueller-Oehring, E., Hasler, B., Franzen, et al  
OXFORD UNIV PRESS INC.2024
- **Sleep, brain systems, and persistent stress in early adolescents during COVID-19: Insights from the ABCD study.** *Journal of affective disorders*  
Kiss, O., Qu, Z., Müller-Oehring, E. M., Baker, F. C., Mirzasoleiman, B.  
2024; 346: 234-241
- **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
- **The distortions of the free water model for diffusion MRI data when assuming single compartment relaxometry and proton density.** *Physics in medicine and biology*  
Ferizi, U., Müller-Oehring, E. M., Peterson, E. T., Pohl, K. M.  
2023
- **Detecting negative valence symptoms in adolescents based on longitudinal self-reports and behavioral assessments.** *Journal of affective disorders*  
Paschali, M., Kiss, O., Zhao, Q., Adeli, E., Podhajsky, S., Muller-Oehring, E. M., Gotlib, I. H., Pohl, K. M., Baker, F. C.  
2022
- **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
- **The Pandemic's Toll on Young Adolescents: Prevention and Intervention Targets to Preserve Their Mental Health.** *The Journal of adolescent health : official publication of the Society for Adolescent Medicine*  
Kiss, O., Alzueta, E., Yuksel, D., Pohl, K. M., de Zambotti, M., Muller-Oehring, E. M., Prouty, D., Durley, I., Pelham, W. E., McCabe, C. J., Gonzalez, M. R., Brown, S. A., Wade, et al  
1800

- **A Longitudinal Examination of Alcohol-Related Blackouts as a Predictor of Changes in Learning, Memory, and Executive Function in Adolescents.** *Frontiers in psychiatry*  
Lorkiewicz, S. A., Baker, F. C., Muller-Oehring, E. M., Haas, A., Wickham, R., Sassoon, S. A., Clark, D. B., Nooner, K. B., Tapert, S. F., Brown, S. A., Schulte, T. 2022; 13: 866051
- **Neurofunctional characteristics of executive control in older people with HIV infection: a comparison with Parkinson's disease.** *Brain imaging and behavior*  
Müller-Oehring, E. M., Hong, J. Y., Poston, K. L., Brontë-Stewart, H. M., Sullivan, E. V., McGlynn, L., Schulte, T. 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
- **The effects of mood and cognition on daily functioning and quality of life in older people living with HIV and people with Parkinson's disease.** *Neuropsychology*  
Patel, S. S., Muller-Oehring, E. M., DeVaughn, S., Fama, R., Bronte-Stewart, H. M., Poston, K. L., Schulte, T. 2021
- **Alcohol Use Disorder and Its Comorbidity With HIV Infection Disrupts Anterior Cingulate Cortex Functional Connectivity.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*  
Honnorat, N., Fama, R., Muller-Oehring, E. M., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M. 2020
- **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
- **Alterations of Brain Signal Oscillations in Older Individuals with HIV Infection and Parkinson's Disease.** *Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology*  
Muller-Oehring, E. M., Hong, J., Hughes, R. L., Kwon, D., Bronte-Stewart, H. M., Poston, K. L., Schulte, T. 2020
- **Cognitive and motor deficits in older adults with HIV infection: Comparison with normal ageing and Parkinson's disease.** *Journal of neuropsychology*  
Müller-Oehring, E. M., Fama, R. n., Levine, T. F., Hardcastle, C. n., Goodcase, R. n., Martin, T. n., Prabhakar, V. n., Brontë-Stewart, H. M., Poston, K. L., Sullivan, E. V., Schulte, T. n. 2020
- **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
- **Quantitative Digitography Measures Fine Motor Disturbances in Chronically Treated HIV Similar to Parkinson's Disease** *Frontier in Aging Neuroscience*  
Prabhakar, V., Martin, T., Müller-Oehring, E. M., Goodcase, R., Schulte, T., Poston, K. L., Brontë-Stewart, H. M. 2020: 539598
- **Phases of procedural learning and memory: characterisation with perceptual-motor sequence tasks** *JOURNAL OF COGNITIVE PSYCHOLOGY*  
Hong, J., Gallanter, E., Mueller-Oehring, E. M., Schulte, T. 2019
- **Establishing a framework for neuropathological correlates and glymphatic system functioning in Parkinson's disease.** *Neuroscience and biobehavioral reviews*  
Sundaram, S., Hughes, R. L., Peterson, E., Muller-Oehring, E. M., Bronte-Stewart, H. M., Poston, K. L., Faerman, A., Bhowmick, C., Schulte, T. 2019
- **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 2019

- **Longitudinally consistent estimates of intrinsic functional networks** *Human Brain Mapping*  
Zhao, Q., Kwon, D., Müller-Oehring, E. M., Le Berre, A., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.  
2019
- **Brain activation to cannabis- and alcohol-related words in alcohol use disorder.** *Psychiatry research. Neuroimaging*  
Müller-Oehring, E. M., Berre, A. L., Serventi, M. n., Kalon, E. n., Haas, A. L., Padula, C. B., Schulte, T. n.  
2019; 294: 111005
- **Occipito-Temporal Sensitivity and Emotional Faces in Alcohol Use Disorder** *NEUROSCIENCE OF ALCOHOL: MECHANISMS AND TREATMENT*  
Sundaram, S., Mueller-Oehring, E. M., Schulte, T., Preedy, V. R.  
2019: 269–76
- **Information processing deficit in older adults with HIV infection: A comparison with Parkinson's disease.** *Neuropsychology*  
Sundaram, S., Muller-Oehring, E. M., Fama, R., Bronte-Stewart, H. M., Poston, K. L., Goodcase, R., Martin, T., Prabhakar, V., Karpf, J., Schulte, T.  
2018
- **Aberrant blood-oxygen-level-dependent signal oscillations across frequency bands characterize the alcoholic brain** *ADDICTION BIOLOGY*  
Hong, J., Mueller-Oehring, E. M., Pfefferbaum, A., Sullivan, E. V., Kwon, D., Schulte, T.  
2018; 23 (2): 824–35
- **The mediating role of cortical thickness and gray matter volume on sleep slow-wave activity during adolescence** *BRAIN STRUCTURE & FUNCTION*  
Goldstone, A., Willoughby, A. R., de Zambotti, M., Franzen, P. L., Kwon, D., Pohl, K. M., Pfefferbaum, A., Sullivan, E. V., Muller-Oehring, E. M., Prouty, D. E., Hasler, B. P., Clark, D. B., Colrain, et al  
2018; 223 (2): 669–85
- **Deviant functional activation and connectivity of the right insula are associated with lack of awareness of episodic memory impairment in nonamnesic alcoholism** *CORTEX*  
Le Berre, A., Mueller-Oehring, E. M., Schulte, T., Serventi, M. R., Pfefferbaum, A., Sullivan, E. V.  
2017; 95: 15–28
- **Influences of Age, Sex, and Moderate Alcohol Drinking on the Intrinsic Functional Architecture of Adolescent Brains.** *Cerebral cortex*  
Müller-Oehring, E. M., Kwon, D., Nagel, B. J., Sullivan, E. V., Chu, W., Rohlfing, T., Prouty, D., Nichols, B. N., Poline, J., Tapert, S. F., Brown, S. A., Cummins, K., Brumback, et al  
2017: 1-15
- **The neural correlates of priming emotion and reward systems for conflict processing in alcoholics.** *Brain imaging and behavior*  
Schulte, T., Jung, Y., SULLIVAN, E. V., Pfefferbaum, A., SERVENTI, M., Müller-Oehring, E. M.  
2016: -?
- **Differential compromise of prospective and retrospective metamemory monitoring and their dissociable structural brain correlates** *CORTEX*  
Le Berre, A., Mueller-Oehring, E. M., Kwon, D., Serventi, M. R., Pfefferbaum, A., Sullivan, E. V.  
2016; 81: 192-202
- **Brain responses to emotional salience and reward in alcohol use disorder.** *Brain imaging and behavior*  
Alba-Ferrara, L., Müller-Oehring, E. M., SULLIVAN, E. V., Pfefferbaum, A., Schulte, T.  
2016; 10 (1): 136-146
- **Aging with HIV-1 Infection: Motor Functions, Cognition, and Attention - A Comparison with Parkinson's Disease** *NEUROPSYCHOLOGY REVIEW*  
DeVaughn, S., Mueller-Oehring, E. M., Markey, B., Bronte-Stewart, H. M., Schulte, T.  
2015; 25 (4): 424-438
- **The Resting Brain of Alcoholics** *CEREBRAL CORTEX*  
Mueller-Oehring, E. M., Jung, Y., Pfefferbaum, A., Sullivan, E. V., Schulte, T.  
2015; 25 (11): 4155-4168
- **Task-rest modulation of basal ganglia connectivity in mild to moderate Parkinson's disease.** *Brain imaging and behavior*  
Müller-Oehring, E. M., Sullivan, E. V., Pfefferbaum, A., Huang, N. C., Poston, K. L., Bronte-Stewart, H. M., Schulte, T.  
2015; 9 (3): 619-638
- **Compromised frontocerebellar circuitry contributes to nonplanning impulsivity in recovering alcoholics.** *Psychopharmacology*

- Jung, Y., Schulte, T., Müller-Oehring, E. M., Namkoong, K., Pfefferbaum, A., Sullivan, E. V.  
2014; 231 (23): 4443-4453
- **Cognition, emotion, and attention.** *Handbook of clinical neurology*  
Müller-Oehring, E. M., Schulte, T.  
2014; 125: 341-354
  - **A Selective Insular Perfusion Deficit Contributes to Compromised Salience Network Connectivity in Recovering Alcoholic Men** *BIOLOGICAL PSYCHIATRY*  
Sullivan, E. V., Mueller-Oehring, E., Pitel, A., Chanraud, S., Shankaranarayanan, A., Alsop, D. C., Rohlfing, T., Pfefferbaum, A.  
2013; 74 (7): 547-555
  - **Midbrain-Driven Emotion and Reward Processing in Alcoholism** *NEUROPSYCHOPHARMACOLOGY*  
Mueller-Oehring, E. M., Jung, Y., SULLIVAN, E. V., Hawkes, W. C., Pfefferbaum, A., Schulte, T.  
2013; 38 (10): 1844-1853
  - **Fiber tract-driven topographical mapping (FTTM) reveals microstructural relevance for interhemispheric visuomotor function in the aging brain.** *NeuroImage*  
Schulte, T., Maddah, M., Müller-Oehring, E. M., Rohlfing, T., Pfefferbaum, A., Sullivan, E. V.  
2013; 77: 195-206
  - **INTRINSIC FUNCTIONAL CONNECTIVITY IN ALCOHOLISM: TEST-RETEST STABILITY AND NORMALIZATION WITH SOBRIETY** *36th Annual Scientific Meeting of the Research-Society-on-Alcoholism*  
Mueller-Oehring, E. M., Pfefferbaum, A., SULLIVAN, E. V., Collins, A., Schulte, T.  
WILEY-BLACKWELL.2013: 212A-212A
  - **IMPLICIT ALCOHOL-RELATED ASSOCIATIONS AFFECT DECISION-MAKING IN ABSTINENT ALCOHOLICS** *36th Annual Scientific Meeting of the Research-Society-on-Alcoholism*  
Schulte, T., Chu, W., Mueller-Oehring, E. M.  
WILEY-BLACKWELL.2013: 28A-28A
  - **Modulation of limbic-cerebellar functional connectivity enables alcoholics to recognize who is who.** *Brain structure & function*  
Pitel, A., Chanraud, S., Müller-Oehring, E. M., Pfefferbaum, A., Sullivan, E. V.  
2013; 218 (3): 683-695
  - **Remapping the brain to compensate for impairment in recovering alcoholics.** *Cerebral cortex*  
Chanraud, S., Pitel, A., Müller-Oehring, E. M., Pfefferbaum, A., Sullivan, E. V.  
2013; 23 (1): 97-104
  - **Visual Search and the Aging Brain: Discerning the Effects of Age-Related Brain Volume Shrinkage on Alertness, Feature Binding, and Attentional Control** *NEUROPSYCHOLOGY*  
Mueller-Oehring, E. M., Schulte, T., Rohlfing, T., Pfefferbaum, A., Sullivan, E. V.  
2013; 27 (1): 48-59
  - **Remapping the Brain to Compensate for Impairment in Recovering Alcoholics** *CEREBRAL CORTEX*  
Chanraud, S., Pitel, A., Mueller-Oehring, E. M., Pfefferbaum, A., Sullivan, E. V.  
2013; 23 (1): 97-104
  - **Visual search and the aging brain: discerning the effects of age-related brain volume shrinkage on alertness, feature binding, and attentional control.** *Neuropsychology*  
Müller-Oehring, E. M., Schulte, T., Rohlfing, T., Pfefferbaum, A., Sullivan, E. V.  
2013; 27 (1): 48-59
  - **How Acute and Chronic Alcohol Consumption Affects Brain Networks: Insights from Multimodal Neuroimaging** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*  
Schulte, T., Oberlin, B. G., Kareken, D. A., Marinkovic, K., Mueller-Oehring, E. M., Meyerhoff, D. J., Tapert, S.  
2012; 36 (12): 2017-2027
  - **White matter fiber compromise contributes differentially to attention and emotion processing impairment in alcoholism, HIV-infection, and their comorbidity** *NEUROPSYCHOLOGIA*  
Schulte, T., Mueller-Oehring, E. M., SULLIVAN, E. V., Pfefferbaum, A.

2012; 50 (12): 2812-2822

- **COMBINED EFFECTS OF ALCOHOLISM AND HIV-INFECTION ON SELECTIVE COGNITIVE AND MOTOR FUNCTIONS AND THEIR NEURAL SUBSTRATES** *35th Annual Scientific Meeting of the Research-Society-on-Alcoholism (RSA)*  
Fama, R., SULLIVAN, E. V., Mueller-Oehring, E. M., Schulte, T., Sassoon, S. A., Rosenbloom, M. J., Pfefferbaum, A.  
WILEY-BLACKWELL.2012: 273A-273A
- **FUNCTIONAL CONNECTIVITY STRENGTH IN VISUOSPATIAL ATTENTION NETWORKS IN ALCOHOLISM** *35th Annual Scientific Meeting of the Research-Society-on-Alcoholism (RSA)*  
Mueller-Oehring, E. M., Schulte, T., Pfefferbaum, A., Sullivan, E. V.  
WILEY-BLACKWELL.2012: 272A-272A
- **WHITE MATTER FIBER COMPROMISE CONTRIBUTES TO ATTENTIONAL AND EMOTIONAL PROCESSING IMPAIRMENT IN ALCOHOLISM, HIV INFECTION, AND THEIR COMORBIDITY** *35th Annual Scientific Meeting of the Research-Society-on-Alcoholism (RSA)*  
Schulte, T., Mueller-Oehring, E. M., Sullivan, E. V., Pfefferbaum, A.  
WILEY-BLACKWELL.2012: 47A-47A
- **ADAPTING TO UNCERTAIN HIGH-RISK CONDITIONS IN ALCOHOL DEPENDENCE** *35th Annual Scientific Meeting of the Research-Society-on-Alcoholism (RSA)*  
Jung, Y., Mueller-Oehring, E. M., Schulte, T., Pfefferbaum, A., Sullivan, E. V.  
WILEY-BLACKWELL.2012: 236A-236A
- **Synchrony of Corticostriatal-Midbrain Activation Enables Normal Inhibitory Control and Conflict Processing in Recovering Alcoholic Men** *BIOLOGICAL PSYCHIATRY*  
Schulte, T., Mueller-Oehring, E. M., Sullivan, E. V., Pfefferbaum, A.  
2012; 71 (3): 269-278
- **Age-related reorganization of functional networks for successful conflict resolution: A combined functional and structural MRI study** *NEUROBIOLOGY OF AGING*  
Schulte, T., Mueller-Oehring, E. M., Chanraud, S., Rosenbloom, M. J., Pfefferbaum, A., Sullivan, E. V.  
2011; 32 (11): 2075-2090
- **FUNCTIONAL AND STRUCTURAL CONNECTIVITY AND EXECUTIVE CONTROL IN CHRONIC ALCOHOLISM: A COMBINED DTI AND fMRI STUDY** *34th Annual Scientific Meeting of the Research-Society-on-Alcoholism*  
Mueller-Oehring, E. M., SULLIVAN, E. V., Pfefferbaum, A., Schulte, T.  
WILEY-BLACKWELL.2011: 283A-283A
- **UTILITY OF A BRIEF INSTRUMENT FOR ASSESSING ALCOHOL TOLERANCE IN SOCIAL DRINKERS** *34th Annual Scientific Meeting of the Research-Society-on-Alcoholism*  
Rosenbloom, M. J., Mueller-Oehring, E. M., SULLIVAN, E. V., Pfefferbaum, A., Schulte, T.  
WILEY-BLACKWELL.2011: 75A-75A
- **Disruption of Emotion and Conflict Processing in HIV Infection with and without Alcoholism Comorbidity** *JOURNAL OF THE INTERNATIONAL NEUROPSYCHOLOGICAL SOCIETY*  
Schulte, T., Mueller-Oehring, E. M., Sullivan, E. V., Pfefferbaum, A.  
2011; 17 (3): 537-550
- **Cerebral blood flow in posterior cortical nodes of the default mode network decreases with task engagement but remains higher than in most brain regions.** *Cerebral cortex*  
Pfefferbaum, A., Chanraud, S., Pitel, A., Müller-Oehring, E., Shankaranarayanan, A., Alsop, D. C., Rohlfing, T., Sullivan, E. V.  
2011; 21 (1): 233-244
- **Cerebral Blood Flow in Posterior Cortical Nodes of the Default Mode Network Decreases with Task Engagement but Remains Higher than in Most Brain Regions** *CEREBRAL CORTEX*  
Pfefferbaum, A., Chanraud, S., Pitel, A., Mueller-Oehring, E., Shankaranarayanan, A., Alsop, D. C., Rohlfing, T., Sullivan, E. V.  
2011; 21 (1): 233-244
- **White Matter Fiber Degradation Attenuates Hemispheric Asymmetry When Integrating Visuomotor Information** *JOURNAL OF NEUROSCIENCE*  
Schulte, T., Mueller-Oehring, E. M., Rohlfing, T., Pfefferbaum, A., Sullivan, E. V.  
2010; 30 (36): 12168-12178

- **REDUCED PREFRONTAL RESPONSIVENESS TO ALCOHOL STIMULI IN CHRONIC ALCOHOLISM** *33rd Annual Meeting of the Research-Society-on-Alcoholism*  
Mueller-Oehring, E. M., SULLIVAN, E. V., Pfefferbaum, A., Schulte, T.  
WILEY-BLACKWELL.2010: 164A-164A
- **Contribution of Callosal Connections to the Interhemispheric Integration of Visuomotor and Cognitive Processes** *NEUROPSYCHOLOGY REVIEW*  
Schulte, T., Mueller-Oehring, E. M.  
2010; 20 (2): 174-190
- **DISRUPTION OF BOTTOM-UP PROCESSES IN ALCOHOLICS: EXAMINATION WITH VISUOPERCEPTUAL TESTING AND QUANTITATIVE FIBER TRACKING** *33rd Annual Meeting of the Research-Society-on-Alcoholism*  
Schulte, T., Mueller-Oehring, E. M., SULLIVAN, E. V., Pfefferbaum, A.  
WILEY-BLACKWELL.2010: 165A-165A
- **Callosal degradation in HIV-1 infection predicts hierarchical perception: A DTI study** *NEUROPSYCHOLOGIA*  
Mueller-Oehring, E. M., Schulte, T., Rosenbloom, M. J., Pfefferbaum, A., Sullivan, E. V.  
2010; 48 (4): 1133-1143
- **Neurocircuitry of emotion and cognition in alcoholism: contributions from white matter fiber tractography.** *Dialogues in clinical neuroscience*  
Schulte, T., Muller-Oehring, E. M., Pfefferbaum, A., Sullivan, E. V.  
2010; 12 (4): 554-560
- **Double dissociation between action-driven and perception-driven conflict resolution invoking anterior versus posterior brain systems** *NEUROIMAGE*  
Schulte, T., Mueller-Oehring, E. M., Vinco, S., Hoeft, F., Pfefferbaum, A., Sullivan, E. V.  
2009; 48 (2): 381-390
- **Parallel interhemispheric processing in hemineglect: Relation to visual field defects** *NEUROPSYCHOLOGIA*  
Mueller-Oehring, E. M., Schulte, T., Kasten, E., Poppel, D. A., Mueller, I., Wuestenberg, T., Sabel, B. A.  
2009; 47 (12): 2397-2408
- **DISRUPTION OF EMOTION AND CONFLICT PROCESSING IN ALCOHOLICS WITH AND WITHOUT HIV INFECTION** *32nd Annual Scientific Meeting of the Research-Society-on-Alcoholism*  
Schulte, T., Mueller-Oehring, E. M., Bhandakhar, M., Rosenbloom, M. J., Pfefferbaum, A., SULLIVAN, E. V.  
WILEY-BLACKWELL.2009: 238A-238A
- **PROCESSING OF EMOTIONAL AND ALCOHOL STIMULI IN CHRONIC ALCOHOLISM** *32nd Annual Scientific Meeting of the Research-Society-on-Alcoholism*  
Mueller-Oehring, E. M., SULLIVAN, E. V., Thompson, M., Pfefferbaum, A., Schulte, T.  
WILEY-BLACKWELL.2009: 87A-87A
- **Global-Local Interference is Related to Callosal Compromise in Alcoholism: A Behavior-DTI Association Study** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*  
Mueller-Oehring, E. M., Schulte, T., Fama, R., Pfefferbaum, A., Sullivan, E. V.  
2009; 33 (3): 477-489
- **Callosal Compromise Differentially Affects Conflict Processing and Attentional Allocation in Alcoholism, HIV, and Their Comorbidity** *BRAIN IMAGING AND BEHAVIOR*  
Schulte, T., Mueller-Oehring, E. M., Javitz, H., Pfefferbaum, A., Sullivan, E. V.  
2008; 2 (1): 27-38
- **The topography of training-induced visual field recovery: Perimetric maps and subjective representations** *VISUAL COGNITION*  
Poppel, D. A., Mueller-Oehring, E. M., Kasten, E., Bunzenthal, U., Sabel, B. A.  
2008; 16 (8): 1059-1077
- **Local-global interference is modulated by age, sex and anterior corpus callosum size** *BRAIN RESEARCH*  
Mueller-Oehring, E. M., Schulte, T., Raassi, C., Pfefferbaum, A., Sullivan, E. V.  
2007; 1142: 189-205
- **Vision restoration therapy does not benefit from costimulation: A pilot study** *JOURNAL OF CLINICAL AND EXPERIMENTAL NEUROPSYCHOLOGY*  
Kasten, E., Bunzenthal, U., Mueller-Oehring, E. M., Mueller, I., Sabel, B. A.

2007; 29 (6): 569-584

- **Visual hallucinations during spontaneous and training-induced visual field recovery** *NEUROPSYCHOLOGIA*  
Poggel, D. A., Mueller-Oehring, E. M., Gothe, J., Kenkel, S., Kasten, E., Sabel, B. A.  
2007; 45 (11): 2598-2607
- **Callosal involvement in a lateralized Stroop task in alcoholic and healthy subjects** *NEUROPSYCHOLOGY*  
Schulte, T., Muller-Oehring, E. M., Salo, R., Pfefferbaum, A., Sullivan, E. V.  
2006; 20 (6): 727-736
- **Improving residual vision by attentional cueing in patients with brain lesions** *BRAIN RESEARCH*  
Poggel, D. A., Kasten, E., Mueller-Oehring, E. M., Bunzenthal, U., Sabel, B. A.  
2006; 1097: 142-148
- **FMRI evidence for individual differences in premotor modulation of extrastriatal visual-perceptual processing of redundant targets** *NEUROIMAGE*  
Schulte, T., CHEN, S. H., Muller-Oehring, E. M., Adalsteinsson, E., Pfefferbaum, A., Sullivan, E. V.  
2006; 30 (3): 973-982
- **Corpus callosal microstructural integrity influences interhemispheric processing: A diffusion tensor imaging study** *CEREBRAL CORTEX*  
Schulte, T., Sullivan, E. V., Muller-Oehring, E. M., Adalsteinsson, E., Pfefferbaum, A.  
2005; 15 (9): 1384-1392
- **Differential effect of HIV infection and alcoholism on conflict processing, attentional allocation, and perceptual load: Evidence from a Stroop Match-to-Sample task** *BIOLOGICAL PSYCHIATRY*  
Schulte, T., Mueller-Oehring, E. M., Rosenbloom, M. J., Pfefferbaum, A., Sullivan, E. V.  
2005; 57 (1): 67-75
- **Differential hemispheric visuospatial functioning in alcoholism, HIV, and their comorbidity** *27th Annual Meeting of the Research-Society-on-Alcoholism*  
Mueller-Oehring, E. M., Schulte, T., Raassi, C., Pfefferbaum, A., SULLIVAN, E. V.  
WILEY-BLACKWELL.2004: 151A-151A
- **Neglect and hemianopia superimposed** *JOURNAL OF CLINICAL AND EXPERIMENTAL NEUROPSYCHOLOGY*  
Muller-Oehring, E. M., Kasten, E., Poggel, D. A., Schulte, T., Strasburger, H., Sabel, B. A.  
2003; 25 (8): 1154-1168
- **Patterns of visual field recovery: Decrease of defect size in perimetry and of subjective scotoma size in patients with cerebral lesions performing visual restitution training** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology*  
Poggel, D. A., Mueller-Oehring, E. M., Kasten, E., Bunzenthal, U., Sabel, B. A.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2002: U1047-U1047
- **Acute moderate alcohol consumption affects cardiovascular responses in healthy males with different tolerance levels** *NEUROPSYCHOBIOLOGY*  
Schulte, T., Warzel, H., Westphal, S., Muller-Oehring, E. M., Strasburger, H., Dierkes, J., Sabel, B. A.  
2002; 45 (4): 191-198
- **Unusual spontaneous and training induced visual field recovery in a patient with a gunshot lesion** *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*  
Poggel, D. A., Kasten, E., Muller-Oehring, E. M., Sabel, B. A., Brandt, S. A.  
2001; 70 (2): 236-239
- **Acute effects of alcohol on divided and covert attention in men** *PSYCHOPHARMACOLOGY*  
Schulte, T., Muller-Oehring, E. M., Strasburger, H., Warzel, H., Sabel, B. A.  
2001; 154 (1): 61-69
- **Restoration of vision II: Residual functions and training-induced visual field enlargement in brain-damaged patients** *Workshop on Visual System Damage - Residual Function and Plasticity*  
Kasten, E., Poggel, D. A., Muller-Oehring, E., Gothe, J., Schulte, T., Sabel, B. A.  
IOS PRESS.1999: 273-87