

BeCOME Publication List

last updated: 02 May 2024

listed are all publications in which data from the BeCOME study have been used including studies which only used small parts of the BeC dataset (e.g. Penner-Goegke et al., 2023, or Yusupov et al., 2024).

2016

Schneider, M., P. Hathway, L. Leuchs, P. G. Sämann, M. Czisch and V. I. Spormaker (2016). "Spontaneous pupil dilations during the resting state are associated with activation of the salience network." Neuroimage **139**: 189-201.

2018

Elbau, I. G., B. Brucklmeier, M. Uhr, J. Arloth, D. Czamara, V. I. Spormaker, M. Czisch, K. E. Stephan, E. B. Binder and P. G. Samann (2018). "The brain's hemodynamic response function rapidly changes under acute psychosocial stress in association with genetic and endocrine stress response markers." Proceedings of the National Academy of Sciences of the United States of America **115**(43): E10206-E10215.

Schneider, M., L. Leuchs, M. Czisch, P. G. Samann and V. I. Spormaker (2018). "Disentangling reward anticipation with simultaneous pupillometry/fMRI." Neuroimage **178**: 11-22.

2019

Eberle, C., Y. Peterse, F. Jukic, B. Müller-Myhsok, D. Czamara, J. Martins, V. Schmoll, M. Czisch, E. B. Binder and P. G. Sämann (2019). "Endophenotype Potential of Nucleus Accumbens Functional Connectivity: Effects of Polygenic Risk for Schizophrenia Interacting with Childhood Adversity." Journal of Psychiatry and Brain Science **4**(4): e190011.

Leuchs, L., M. Schneider and V. I. Spormaker (2019). "Measuring the conditioned response: A comparison of pupillometry, skin conductance, and startle electromyography." Psychophysiology **56**(1).

2020

Bruckl, T. M., V. I. Spormaker, P. G. Samann, A. K. Brem, L. Hence, D. Czamara, I. Elbau, N. C. Grandi, L. Jollans, A. Kuhnel, L. Leuchs, D. Pohlchen, M. Schneider, A. Tontsch, M. E. Keck, L. Schilbach, M. Czisch, S. Lucae, A. Erhardt and E. B. Binder (2020). "The biological classification of mental disorders (BeCOME) study: a protocol for an observational deep-phenotyping study for the identification of biological subtypes." Bmc Psychiatry **20**(1).

Kuhnel, A., N. B. Kroemer, I. G. Elbau, M. Czisch, P. G. Samann, M. Walter, E. B. Binder and B. W. Grp (2020). "Psychosocial stress reactivity habituates following acute physiological stress." Human Brain Mapping **41**(14): 4010-4023.

Pohlchen, D., L. Leuchs, F. P. Binder, B. Blaskovich, T. Nantawisarakul, P. Topalidis, T. M. Bruckl, S. D. Norrholm, T. Jovanovic, V. I. Spormaker, E. B. Binder, M. Czisch, A. Erhardt, N. C. Grandi, S. Ilic-Cocic, S. Lucae, P. Samann, A. Tontsch and B. W. Grp (2020). "No robust differences in fear conditioning between patients with fear-related disorders and healthy controls." Behaviour Research and Therapy **129**.

Schneider, M., I. G. Elbau, T. Nantawisarakul, D. Pohlchen, T. Bruckl, M. Czisch, P. G. Saemann, M. D. Lee, E. B. Binder, V. I. Spormaker and B. W. Grp (2020). "Pupil Dilation during Reward Anticipation Is Correlated to Depressive Symptom Load in Patients with Major Depressive Disorder." Brain Sciences **10**(12).

2021

Pohlchen, D., M. Priouret, M. S. Kraft, F. P. Binder, D. A. Gursel, G. Berberich, K. Koch, V. I. Spormaker and B. W. Grp (2021). "Examining Differences in Fear Learning in Patients With Obsessive-Compulsive Disorder With Pupillometry, Startle Electromyography and Skin Conductance Responses." Frontiers in Psychiatry **12**.

2022

Fietz, J., D. Pohlchen, F. P. Binder, M. Czisch, P. G. Samann, V. I. Spormaker and B. W. grp (2022). "Pupillometry tracks cognitive load and salience network activity in a working memory functional magnetic resonance imaging task." Human Brain Mapping **43**(2): 665-680.

Kühnel, A., M. Czisch, P. G. Sämann, E. B. Binder and N. B. Kroemer (2022). "Spatiotemporal Dynamics of Stress-Induced Network Reconfigurations Reflect Negative Affectivity." Biol Psychiatry **92**(2): 158-169.

2023

Blaskovich, B., E. Bullón-Tarrasó, D. Pöhlchen, A. Manafis, H. Neumayer, L. Besedovsky, T. Brückl, P. Simor, F. P. Binder, V. I. Spormaker and B. W. Grp (2023). "The utility of wearable headband electroencephalography and pulse photoplethysmography to assess cortical and physiological arousal in individuals with stress-related mental disorders." Journal of Sleep Research.

Felt, J. M., N. Yusupov, K. D. Harrington, J. Fietz, Z. Z. Zhang, M. J. Sliwinski, N. Ram, K. J. O'Donnell, M. J. Meaney, F. W. Putnam, J. G. Noll, E. B. Binder and C. E. Shenk (2023). "Epigenetic age acceleration as a biomarker for impaired cognitive abilities in adulthood following early life adversity and psychiatric disorders." Neurobiol Stress **27**: 100577.

Fietz, J., D. Pöhlchen, T. M. Brückl, A. K. Brem, F. Padberg, M. Czisch, P. G. Sämann and V. I. Spormaker (2023). "Data-Driven Pupil Response Profiles as Transdiagnostic Readouts for the Detection of Neurocognitive Functioning in Affective and Anxiety Disorders." Biol Psychiatry Cogn Neurosci Neuroimaging.

Kühnel, A., J. Hagenberg, J. Knauer-Arloth, M. Ködel, M. Czisch, P. G. Sämann, E. B. Binder and N. B. Kroemer (2023). "Stress-induced brain responses are associated with BMI in women." Commun Biol **6**(1): 1031.

Penner-Goeke, S., M. Bothe, N. Rek, P. Kreitmaier, D. Pöhlchen, A. Kühnel, L. V. Glaser, E. Kaya, A. C. Krontira, S. Röh, D. Czamara, M. Ködel, J. Monteserin-Garcia, L. Diener, B. Wölfel, S. Sauer, C. Rummel, S. Riesenberger, J. Arloth-Knauer, M. Ziller, M. Labeur, S. Meijnsing and E. B. Binder (2023). "High-throughput screening of glucocorticoid-induced enhancer activity reveals mechanisms of stress-related psychiatric disorders." Proc Natl Acad Sci U S A **120**(49): e2305773120.

Pöhlchen, D., J. Fietz, M. Czisch, P. G. Sämann, V. I. Spormaker and B. W. Grp (2023). "Startle Latency as a Potential Marker for Amygdala-Mediated Hyperarousal." Biological Psychiatry-Cognitive Neuroscience and Neuroimaging **8**(4): 406-416.

Sun, R., J. Fietz, M. Erhart, D. Poehlchen, L. Henco, T. M. Brückl, M. Czisch, P. G. Saemann, V. I. Spormaker and B. S. Team (2023). "Free-viewing gaze patterns reveal a mood-congruency bias in MDD during an affective fMRI/eye-tracking task." European Archives of Psychiatry and Clinical Neuroscience.

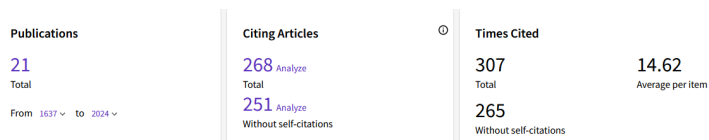
Yusupov, N., L. Dieckmann, M. Erhart, S. Sauer, M. Rex-Haffner, J. Kopf-Beck, T. M. Brückl, D. Czamara and E. B. Binder (2023). "Transdiagnostic evaluation of epigenetic age acceleration and burden of psychiatric disorders." Neuropsychopharmacology **48**(9): 1409-1417.

2024

Brendler, A., M. Schneider, I. G. Elbau, R. Sun, T. Nantawisarakul, D. Pöhlchen, T. Brückl, M. Czisch, P. G. Sämann, M. D. Lee, V. I. Spormaker and B. W. Grp (2024). "Assessing hypo-arousal during reward anticipation with pupillometry in patients with major depressive disorder: replication and correlations with anhedonia." Scientific Reports **14**(1).

Hagenberg, J., B. s. group, O. s. group, T. M. Brückl, M. Erhart, J. Kopf-Beck, M. Ködel, G. Rehawi, S. Röh-Karamihalev, S. Sauer, N. Yusupov, M. Rex-Haffner, V. I. Spormaker, P. Sämann, E. Binder and J. Knauer-Arloth (2024). "Dissecting depression symptoms: multi-omics clustering uncovers immune-related subgroups and cell-type specific dysregulation." medRxiv: 2024.2003.2007.24303916.

Yusupov, N., S. Roeh, L. Sotillos Elliott, S. Chang, S. Loganathan, L. Urbina-Treviño, A. S. Fröhlich, S. Sauer, M. Ködel, N. Matosin, D. Czamara, J. M. Deussing and E. B. Binder (2024). "DNA methylation patterns of FKBP5 regulatory regions in brain and blood of humanized mice and humans." Mol Psychiatry.



Times Cited and Publications Over Time (Clarivate)

