



## S. CAN 4: NEUROBIOLOGY OF INDIVIDUAL DIFFERENCES

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### Übersicht Termine und Inhalte

Datum	Inhalte	Literatur
14.10.18	Einführung und Überblick	
21.10.19	Emotionsregulation I	A
28.10.19	Emotionsregulation II	B
04.11.19	Biopsychologische Theorien	C
11.11.19	Monoamine	D
18.11.19	Molekulargenetik	E
25.11.19	Epigenetik	F
02.12.19	Gen-Umwelt-Interaktionen	G
09.12.19	Need for Cognition	H
16.12.19	Altruismus I	I
	<i>- Jahreswechsel -</i>	
06.01.20	Altruismus II	I
13.01.20	Zusammenfassung	
20.01.20	Open Science: Präregistrierung	
27.01.20	Open Science: Open Data	
03.02.20	<i>- Puffertermin -</i>	

## Nr. Literatur

- A** Lamke, J.P., Daniels, J.K., Dörfel, D., Gaebler, M., Rahman, R.A., Hummel, F., ... Walter, H. (2014). The impact of stimulus valence and emotion regulation on sustained brain activation: task-rest switching in emotion. *PLoS ONE*, 9(3), e93098.
- Walter, H., von Kalckreuth, A., Schardt, D., Stephan, A., Goschke, T., & Erk, S. (2009). The temporal dynamics of voluntary emotion regulation. *PLoS ONE*, 4(8), e6726.
- B** Hofman, W., Schmeichel, B.J., & Baddeley, A.D. (2012). Executive functions and self-regulation. *Trends in Cognitive Sciences*, 16(3), 174-180.
- Schmeichel, B.J. & Tang, D. (2015). Individual differences in executive functioning and their relationship to emotional processes and responses. *Current Directions in Psychological Science*, 24(2), 93-98.
- C** Hegerl, U. & Juckel, G. (1993). Intensity dependence of auditory evoked potentials as an indicator of central serotonergic neurotransmission: A new hypothesis. *Biological Psychiatry*, 33, 173-187.
- Hensch, T., Wargelius, H.-L., Herold, U., Lesch, K.L., Oreländ, L., & Brocke, B. (2006). Further evidence for an association of 5-HTTLPR with intensity dependence of auditory-evoked potentials. *Neuropsychopharmacology*, 31, 2047-2054.
- Strobel, A., Debener, S., Schmidt, D., Hünnikerkopf, R., Lesch, K.-P., & Brocke, B. (2003). Allelic Variation in Serotonin transporter function Associated with the intensity dependence of auditory evoked potential. *American Journal of Medical Genetics*, 118B, 41-47.
- D** Cools, R., Nakamura, K., & Daw, N.D. (2011). Serotonin and Dopamine: Unifying affective, activational, and decision functions. *Neuropsychopharmacology*, 36, 98-113.
- Niv, Y., Daw, N.D., Joel, D., & Dayan, P. (2007). Tonic dopamine: opportunity costs and the control of response vigor. *Psychopharmacology*, 191, 507-520.
- E** Armbruster, D., Moser, D.A., Strobel, A., Hensch, T., Kirschbaum, C., Lesch, K.-P., & Brocke, B. (2009). Serotonin transporter gene variation and stressful life events impact processing of fear and anxiety. *International Journal of Neuropsychopharmacology*, 12, 393-401.
- Klucken, T., Alexander, N., Schreckendiek, J., Merz, C.J., Kagerer, S., Osinsky, R., ... Stark, R. (2013). Individual differences in neural correlates of fear conditioning as a function of 5-HTTLPR and stressful life events. *Social Cognitive and Affective Neuroscience*, 8, 318-325.
- F** Allis, C.D. & Jenuwein, T. (2016). The molecular hallmarks of epigenetic control. *Nature Reviews Genetics*, 17, 487-500.
- Wankerl, M., Miller, R., Kirschbaum, C., Hennig, J., Stalder, T., & Alexander, N. (2014). Effects of genetic and early environmental risk factors for depression on serotonin transporter expression and methylation profiles. *Translational Psychiatry*, 4, e402.
- Wey, H.-Y., Gilbert, T.M., Zürcher, N.R., She, A., Bhanot, A., Taillon, B.R., ... Hooker, J.M. (2016). Insights into neuroepigenetics through human histone deacetylase PET imaging. *Science translational medicine*, 8(351), 351ra106.
- G** Domschke, K., Tidow, N., Kuithan, H., Schwarte, K., Klauke, B., Ambrée, A., ... Deckert, J. (2012). Monoamin oxidase A gene DNA hypomethylation – a risk factor for panic disorder? *International Journal of Neuropsychopharmacology*, 15, 1217-1228.
- Ziegler, C., Richter, J., Mahr, M., Gajeska, A., Schiele, M.A., Gehrmann, A., ... Domschke, K. (2016). MAOA hypomethylatino in panic disorder – reversibility of an epigenetic risk pattern by psychotherapy. *Translational Psychiatry*, 6, e773.
- H** Fleischhauer, M., Miller, R., Wekenborg, M. K., Penz, M., Kirschbaum, C., & Enge, S. (2019). Thinking against burnout? An individual's tendency to engage in and enjoy thinking as a potential resilience factor of burnout symptoms and burnout-related impairment in executive functioning. *Frontiers in psychology*, 10, 420.
- I** Enge, S., Mothes, H., Fleischhauer, M., Reif, A., & Strobel, A. (2017). Genetic variation of dopamine and serotonin function modulates the feedback-related negativity during altruistic punishment. *Scientific Reports*, 7, 2996.
- Gärtner, A., Strobel, A., Reif, A., Lesch, K.-P., & Enge, S. (2018). Genetik variation in serotonin function impacts on altruistic punishment in the ultimatum game: A longitudinal approach. *Brain and Cognition*, 125, 37-44.
- Hein, G., Lamm, C., Brodbeck, C., & Singer, T. (2011). Skin conductance response to the pain of others predicts later costly helping. *PLoS ONE*, 6(8), e22759.