

Lutz Jäncke, Prof. Dr. rer. nat.

University Zurich, Psychological Institute, Division Neuropsychology

E-Mail: lutz.jaencke@uzh.ch

PERSONAL INFORMATION

born 16.7.1957 in Wuppertal / Germany, German and Swiss citizenship. Married since October 1988 to Petra Jäncke (Neuropsychologist). Father of 2 boys (29 and 25 years old).

CURRENT POSITION

Full professor (Ordinarius) for Neuropsychology at the University of Zurich

EDUCATION

- | | |
|------|--|
| 1981 | B.S. (Psychology) Technical University Braunschweig |
| 1984 | M.S. (Psychology, Brain research). Heinrich-Heine- University Düsseldorf (Germany) |
| 1989 | Ph.D (Neuropsychology, Cognitive Psychology); Dr. rer. nat., Heinrich-Heine-University |
| 1995 | Habilitation (Neuropsychology), conferring of the <i>venia legendia</i> for Psychology, Heinrich-Heine-University Düsseldorf (Germany) |

PROFESSIONAL AND ACADEMIC EXPERIENCE

- | | |
|-----------|--|
| 1982-1984 | Research assistant to Prof. Kalveram (C1) at the Institute of Experimental Psychology, Düsseldorf |
| 1984-1989 | Senior research assistant to Prof. Kalveram (C1) at the Institute of Experimental Psychology, Düsseldorf |
| 1989-1995 | Assistant Professor (C1; Hochschulassistent) of Experimental Psychology, University Düsseldorf |
| 1995 | Harvard Medical School, Beth Israel Hospital, Department of Neurology and Radiology (Prof. Steven Warrach and Prof. Gottfried Schlaug) – visiting scientist (with a DFG-Stipendship) |
| 1996-1997 | Senior Researcher at the research center Julich (Department of Medicine) |

- 1997-2002** C4 Prof. Experimental Psychology, Otto-von-Guericke-University Magdeburg
- 2002 - present** Full professor (Ordinarius) for Neuropsychology at the University Zurich

SUPERVISED PHD THESES, IMPORTANT CONTRIBUTIONS TO THE CAREER OF SCIENTISTS

Since 1997 I have supervised more than 250 PhDs and 5 “Habilitationen” (2 direct and 3 indirect) theses at the Science and Philosophy faculties of the UZH and the ETH Zurich.

Some of my former doctoral students are now holding professorships at universities in Germany, Switzerland, USA, New Zealand, Australia, and Norway (Prof. Karsten Specht, Prof. Toemme Noesselt, Prof. Nadine Gaab, Prof. Eileen Lüders, Prof. Christian Gaser, Prof. Nico Buncek, Prof. Martin Meyer, Prof. Nicolas Langer, Prof. Nora Raschle, Prof. Jens Bode).

PRIZES, FELLOWSHIPS, DISTINGUISHED MEMBERSHIPS

-
- 1981** B.S. with honor
- 1984** M.S with honor
- 1989** Dissertation (summa cum laude, with honor)
- 1995** Habilitation Venia legendi in Psychology (Privat-Dozent, PD)
- 1996** Award for the best Habilitation at the Mathematisch-Naturwissenschaftliche Fakultät at the Heinrich-Heine-University Düsseldorf
- 1996** Heisenberg Grant (personal grant for excellent science from the German Research Foundation granted for 3 years)
- 1995-1997** Several short list positions for Professorships (Neuropsychology and Cognitive Neuroscience) in Germany (etc., Aachen, Bochum)
- 2006** Goldene Eule for best teaching at the ETH Zürich
- 2007** Credit Swiss Best Teaching Reward from the UZH
- 2008** Goldene Eule ”for best teaching at the ETH Zürich
- 2011** Special Credit Swiss Award for Best Teaching from the UZH
- 2017-2019** Mitglied des Wissenschaftsrates als Gutachter für die Exzellenzinitiative
- 2013-2020** Distinguished Scientist and Adjunct Professor at the King Abdelaziz University, Jeddah, Saudi Arabia

2020	Wissenschaftlicher Beirat des Hans-Albert-Instituts
2021	Member of the year 2021 of the Faculty of 1000 board

PROF. POSITIONS OFFERED SINCE 2002

2008	University Vienna, Chair for Biological Psychology
2009	University South Carolina, Endowed Chair in Neuroimaging and Scientific Director of the MacCausland Brain Imaging Center

FUNCTIONS IN SCIENTIFIC SOCIETIES AND INSTITUTIONS

2008	Member of the CNRS evaluation in Paris.
2010	Chair of the Evaluation of the CRNS Neuroimaging Bordeaux.
2012	Chair of the Evaluation of the Psychological Institute of the University Graz
2016	Chair of the Evaluation of the Psychological Institute of the University Graz
2017	Chair of the Evaluation of the LEMANIC Neuroscience Doctoral School Geneva
2017-2019	Member and Reviewer for the German Research Council (Wissenschaftsrat) in the context of the Excellency Initiative of the German Government.

GOVERNING ACTIVITIES

1998 - 2002	Director of the Institute of Psychology at the Otto-von-Guericke-University Magdeburg
2002 - 2015	Member of the "Forschungskommission" of the University Zurich since 2002.
2003 - present	Member of several search committees as well as teaching organization committees at the UZH and ETH.
2010 - 2016	Director of the "International Normal Aging and Plasticity Imaging Centre" (INAPIC) Zurich
2012 - present	Director of the University Research Priority Program "Dynamic of Healthy Aging"

- 2006 - present** European representative of the “Dana Organization” (Brain and Community).
- 2012 - 2018** Representative of the UZH professors
- Since 2020** Vice president of the Swiss Society for Neuropsychology

ORGANIZATION OF CONFERENCES

Joined midyear meeting of the “International Society of Neuropsychology” together with the German and Swiss Neuropsychology Associations in July 2006 in Zurich.

Co-organizer of the Swiss Psychology Conference in Zurich in September 2007.

SCIENTIFIC BOARDS

Neuroscience Center Zurich

Dybuster GmbH- Defeating Dyslexia

Board Member of Faculty of 1000 for Neurology/Neuroimaging

Centre for Integrative Human Physiology, University of Zurich - Senior member

COST (European Cooperation in Science and Technology) Initiative “Neurofeedback and Brain Computer Interface” - Swiss Representative

The International Max Planck Research School “The Life Course: Evolutionary and Ontogenetic Dynamics (LIFE)” – Faculty Member

Scientific Board Member of the Gesellschaft für Neuropsychologie (GNP), Germany

Associate Professor at the King Abdulaziz University in Jeddah, Saudi Arabia in the program for highly cited scientists as distinguished scientist.

Director of the International Normal Aging and Plasticity Imaging Center Zurich (INAPIC)

Director of the University Research Priority Program “Dynamic of Healthy Aging” (URRP)

Board member of the Freie Gymnasium (high school) in Zurich

REVIEW WORK

Grant reviewer for various grant organizations (selection): Deutsche Forschungsgemeinschaft (DFG), National Institute of Mental Health (NIMH), Irish Research Council, New Zealand Research Foundation, German Israel research foundation, Canadian Research Council (CRC), Natural Sciences and Engineering Research Council of Canada (NSERC), Swiss National Foundation (SNF), Welcome

Institute (London), Wellcome Trust (GB), National Institute of Mental Health (NIMH), Leverhulme Foundation (GB), Dutch Social Science Research Council, Danish National Research Foundation (DNRF), Academy of Finland; National Science Foundation (NSF), USA.

In the last 5 years I have reviewed more than 50 PhD and "Habilitation" theses from universities outside the UZH and ETH.

I have served as independent reviewer in the last 5 years in more than 15 review board meetings organized by grant organizations in the context of larger scientific endeavors (EU, BMBF, DFG-SFB, CNRS).

Neuropsychological expert reviewer, official reviewer for the "Strassenverkehrsamt Zürich" (traffic office of the Canton Zurich). Reviewer for health insurance companies.

EDITORIAL BOARD – SCIENTIFIC JOURNALS

Brain and Language, Laterality, Zeitschrift für Neuropsychologie, Swiss Journal of Psychology, European Journal of Developmental Sciences, Frontiers in Neurosciences, Neuroscience, Neuroreport, Psychological Research, Quarterly Journal of Psychological Research, Restorative Neurology and Neuroscience, Frontiers Cognitive Neuroscience (Chief Editor).

Member of *Faculty of 1000* (Neurology and Neuroimaging)

AD HOC REVIEWER FOR SCIENTIFIC JOURNALS

I am serving as ad hoc reviewer for more than 50 journals including all major general (Science, Nature) neuroscience (Nature Neuroscience, Neuron, J Neuroscience, Cerebral Cortex, Brain) and psychology journals (Psychological Research, Neuropsychologia, Psychological Review).

GRANT SUPPORT

German Research Foundation (DFG: Deutsche Forschungsgesellschaft), Swiss National Science Foundation (SNF), European Union (EU), private donations and industry projects.

Including 2 Bonus of Excellence Grants from the SNF (total amount **1.9 Million CHF**).

Total amount of grant money from SNF, EU, Velux, clinic Littenheid, NCCR since 2003 = **11 Million CHF**.

University Research Priority Program **15 Million CHF** for 2013-2023 (together with Prof. Martin).

INVITED TALKS

More than 150 invited talks and lectures (as keynote lecturer) at symposia and conferences about brain plasticity, brain organization of synesthetes and musicians.

More than 50 invited talks at science colloquia in various universities and science institutions.

More than 100 invited talks at public science education events, at general science meetings for laypersons, for politicians, or companies.

Several appearances on international and national TV, radio, and print press about science issues related to brain plasticity, education, music, and geniuses.

PUBLICATIONS

> 400 papers, 5 Books, 30 Book chapters

Web of Science: 21178 citations (16.3.2021), average citations per article: 36, H-Index = 78

Essential Science Indicator (ESI) (16.3.2021), 5363 citations in „all fields“, average citations per article: 26, 1% of the most cited scientists.

Google scholar: 38467 citations (16.3.2021), h-index = 107, i10-index = 382, since 2016: 15118 citations, h-index since 2016 = 63, i10-index since 2016 = 303.

5 most relevant papers for 2015-2020

1. Leipold, S., Klein, C., & Jäncke, L. (2021) Musical expertise shapes functional and structural brain networks independent of absolute pitch ability. *J. Neurosci.*,.
2. Jäncke, L., Sele, S., Liem, F., Oswald, J., & Merillat, S. (2020). Brain aging and psychometric intelligence: a longitudinal study. *Brain Struct Funct.* (epub ahead).
3. Leipold, S., Brauchli, C., Greber, M., & Jäncke, L. (2019). Absolute and relative pitch processing in the human brain: neural and behavioral evidence. *Brain Struct Funct*, 224(5), 1723-1738.
4. Valizadeh, S. A., Riener, R., Elmer, S., & Jäncke, L. (2019). Decrypting the electrophysiological individuality of the human brain: Identification of individuals based on resting-state EEG activity. *Neuroimage*, 197, 470-481.
5. Valizadeh, S. A., Liem, F., Mérellat, S., Hänggi, J., & Jäncke, L. (2018). Identification of individual subjects on the basis of their brain anatomical features. *Sci Rep*, 8(1), 5611.

Publications in peer reviewed journals in 2015-2021

2021

1. Jäncke, L. (2021) Solve problems and answer questions instead of following trends! *Laterality*, 1–4.
2. Leipold, S., Klein, C., & Jäncke, L. (2021) Musical expertise shapes functional and structural brain networks independent of absolute pitch ability. *J. Neurosci.*,
3. Manoliu, A., Sladky, R., Scherpiet, S., Jäncke, L., Kirschner, M., Haugg, A., Bolsinger, J., Kraehenmann, R., Stämpfli, P., Scharnowski, F., & Others (2021b) Dopaminergic neuromodulation has no detectable effect on visual-cue induced haemodynamic response function in the visual cortex: A double-blind, placebo-controlled functional magnetic resonance imaging study. *J. Psychopharmacol.*, 0269881120972341.
4. Mikos, A., Malagurski, B., Liem, F., Méritat, S., & Jäncke, L. (2021) Object-Location Memory Training in Older Adults Leads to Greater Deactivation of the Dorsal Default Mode Network. *Front. Hum. Neurosci.*, 15, 51.

2020

5. Burkhard, A., Hänggi, J., Elmer, S., & Jäncke, L. (2020). The importance of the fibre tracts connecting the planum temporale in absolute pitch possessors. *NeuroImage*, 211, 116590. <https://doi.org/10.1016/j.neuroimage.2020.116590>
6. Greber, M., Klein, C., Leipold, S., Sele, S., & Jäncke, L. (2020). Heterogeneity of EEG resting-state brain networks in absolute pitch. *International Journal of Psychophysiology: Official Journal of the International Organization of Psychophysiology*. <https://doi.org/10.1016/j.ijpsycho.2020.07.007>
7. Jäncke, L., Sele, S., Liem, F., Oswald, J., & Méritat, S. (2020). Brain aging and psychometric intelligence: a longitudinal study. *Brain Structure & Function*, 225(2), 519–536. <https://doi.org/10.1007/s00429-019-02005-5>
8. Kaufmann, L.-K., Hänggi, J., Jäncke, L., Baur, V., Piccirelli, M., Kollias, S., Schnyder, U., Martin-Soelch, C., & Milos, G. (2020). Age influences structural brain restoration during weight gain therapy in anorexia nervosa. *Translational Psychiatry*, 10(1), 126. <https://doi.org/10.1038/s41398-020-0809-7>
9. Klein, C., Leipold, S., Ghadri, J.-R., Jurisic, S., Hiestand, T., Hänggi, J., Lüscher, T. F., Jäncke, L., & Templin, C. (2020). Takotsubo syndrome: How the broken heart deals with negative emotions. *NeuroImage. Clinical*, 25, 102124. <https://doi.org/10.1016/j.nicl.2019.102124>
10. Malagurski, B., Liem, F., Oswald, J., Méritat, S., & Jäncke, L. (2020a). Functional dedifferentiation of associative resting state networks in older adults--A longitudinal study. *NeuroImage*, 116680. <https://www.sciencedirect.com/science/article/pii/S1053811920301671>
11. Malagurski, B., Liem, F., Oswald, J., Méritat, S., & Jäncke, L. (2020b). Longitudinal functional brain network reconfiguration in healthy aging. *Human Brain Mapping*. <https://doi.org/10.1002/hbm.25161>
12. Brauchli, C., Leipold, S., & Jäncke, L. (2020). Diminished large-scale functional brain networks in absolute pitch during the perception of naturalistic music and audiobooks. *Neuroimage*, 116513. (pub ahead).
13. Burkhard, A., Hänggi, J., Elmer, S., & Jäncke, L. (2020). The importance of the fibre tracts connecting the planum temporale in absolute pitch possessors. *Neuroimage*, 211, 116590. (pub ahead).

14. Jäncke, L., Sele, S., Liem, F., Oschwald, J., & Merillat, S. (2020). Brain aging and psychometric intelligence: a longitudinal study. *Brain Struct Funct.* (epub ahead).

2019

15. Bartsch, L. M., Loaiza, V. M., Jäncke, L., Oberauer, K., & Lewis-Peacock, J. A. (2019). Dissociating refreshing and elaboration and their impacts on memory. *Neuroimage*, 199, 585-597.
16. Brauchli, C., Leipold, S., & Jäncke, L. (2019). Univariate and multivariate analyses of functional networks in absolute pitch. *Neuroimage*, 189, 241-247.
17. Burkhard, A., Elmer, S., & Jäncke, L. (2019). Early tone categorization in absolute pitch musicians is subserved by the right-sided perisylvian brain. *Sci Rep*, 9(1), 1419.
18. Dittinger, E., Scherer, J., Jäncke, L., Besson, M., & Elmer, S. (2019). Testing the influence of musical expertise on novel word learning across the lifespan using a cross-sectional approach in children, young adults and older adults. *Brain Lang*, 198, 104678.
19. Ghadri, J. R., Levinson, R. A., Lüscher, T. F., Jäncke, L., & Templin, C. (2019). Neurocardiology: the brain-heart connection in Takotsubo syndrome. *Eur Heart J*, 40(36), 3062-3063.
20. Herwig, U., Lutz, J., Scherpiet, S., Scheerer, H., Kohlberg, J., Opialla, S. et al. (2019). Training emotion regulation through real-time fMRI neurofeedback of amygdala activity. *Neuroimage*, 184, 687-696.
21. Jäncke, L., Liem, F., & Merillat, S. (2019). Scaling of brain compartments to brain size. *Neuroreport*, 30(8), 573-579.
22. Jäncke, L., Liem, F., & Merillat, S. (2019). Weak correlations between body height and several brain metrics in healthy elderly subjects. *Eur J Neurosci*, 50(10), 3578-3589.
23. Jäncke, L., Saka, M. Y., Badawood, O., & Alhamadi, N. (2019). Resting-state electroencephalogram in learning-disabled children: power and connectivity analyses. *Neuroreport*, 30(2), 95-101.
24. Jockwitz, C., Mérrillat, S., Liem, F., Oschwald, J., Amunts, K., Caspers, S. et al. (2019). Generalizing age effects on brain structure and cognition: A two-study comparison approach. *Hum Brain Mapp*, 40(8), 2305-2319.
25. Klein, C., Leipold, S., Ghadri, J. R., Jurisic, S., Hiestand, T., Hänggi, J. et al. (2019). Takotsubo syndrome: How the broken heart deals with negative emotions. *Neuroimage Clin*, 25, 102124.
26. Leipold, S., Brauchli, C., Greber, M., & Jäncke, L. (2019). Absolute and relative pitch processing in the human brain: neural and behavioral evidence. *Brain Struct Funct*, 224(5), 1723-1738.
27. Leipold, S., Greber, M., Sele, S., & Jäncke, L. (2019). Neural patterns reveal single-trial information on absolute pitch and relative pitch perception. *Neuroimage*, 200, 132-141.
28. Leipold, S., Oderbolz, C., Greber, M., & Jäncke, L. (2019). A reevaluation of the electrophysiological correlates of absolute pitch and relative pitch: No evidence for an absolute pitch-specific negativity. *Int J Psychophysiol*, 137, 21-31.
29. Oschwald, J., Guye, S., Liem, F., Rast, P., Willis, S., Röcke, C. et al. (2019). Brain structure and cognitive ability in healthy aging: a review on longitudinal correlated change. *Rev Neurosci*, 31(1), 1-57.
30. Oschwald, J., Mérrillat, S., Liem, F., Röcke, C., Martin, M., & Jäncke, L. (2019). Lagged Coupled Changes Between White Matter Microstructure and Processing

Speed in Healthy Aging: A Longitudinal Investigation. *Front Aging Neurosci*, 11, 298.

31. Reinders, A. A. T. S., Marquand, A. F., Schlumpf, Y. R., Chalavi, S., Vissia, E. M., Nijenhuis, E. R. S. et al. (2019). Aiding the diagnosis of dissociative identity disorder: pattern recognition study of brain biomarkers. *Br J Psychiatry*, 215(3), 536-544.
32. Schlumpf, Y. R., Nijenhuis, E. R. S., Klein, C., Jäncke, L., & Bachmann, S. (2019). Functional reorganization of neural networks involved in emotion regulation following trauma therapy for complex trauma disorders. *Neuroimage Clin*, 23, 101807.
33. Templin, C., Hänggi, J., Klein, C., Topka, M. S., Hiestand, T., Levinson, R. A. et al. (2019). Altered limbic and autonomic processing supports brain-heart axis in Takotsubo syndrome. *Eur Heart J*, 40(15), 1183-1187.
34. Valizadeh, S. A., Riener, R., Elmer, S., & Jäncke, L. (2019). Decrypting the electrophysiological individuality of the human brain: Identification of individuals based on resting-state EEG activity. *Neuroimage*, 197, 470-481.
35. van den Heuvel, M. P., Scholtens, L. H., van der Burgh, H. K., Agosta, F., Alloza, C., Arango, C. et al. (2019). 10Kin1day: A Bottom-Up Neuroimaging Initiative. *Front Neurol*, 10, 425.

2018

36. Brauchli, C., Elmer, S., Rogenmoser, L., Burkhard, A., & Jäncke, L. (2018). Top-down signal transmission and global hyperconnectivity in auditory-visual synesthesia: Evidence from a functional EEG resting-state study. *Hum Brain Mapp*, 39(1), 522-531.
37. Burkhard, A., Elmer, S., Kara, D., Brauchli, C., & Jäncke, L. (2018). The Effect of Background Music on Inhibitory Functions: An ERP Study. *Front Hum Neurosci*, 12, 293.
38. Dittinger, E., Valizadeh, S. A., Jäncke, L., Besson, M., & Elmer, S. (2018). Increased functional connectivity in the ventral and dorsal streams during retrieval of novel words in professional musicians. *Hum Brain Mapp*, 39(2), 722-734.
39. Elmer, S., & Jäncke, L. (2018). Relationships between music training, speech processing, and word learning: a network perspective. *Ann N Y Acad Sci*.
40. Greber, M., Rogenmoser, L., Elmer, S., & Jäncke, L. (2018). Electrophysiological Correlates of Absolute Pitch in a Passive Auditory Oddball Paradigm: a Direct Replication Attempt. *eNeuro*, 5(6).
41. Herwig, U., Opialla, S., Cattapan, K., Wetter, T. C., Jäncke, L., & Brühl, A. B. (2018). Emotion introspection and regulation in depression. *Psychiatry Res Neuroimaging*, 277, 7-13.
42. Hiestand, T., Hänggi, J., Klein, C., Topka, M. S., Jaguszewski, M., Ghadri, J. R. et al. (2018). Takotsubo Syndrome Associated With Structural Brain Alterations of the Limbic System. *J Am Coll Cardiol*, 71(7), 809-811.
43. Jäncke, L. (2018). Sex/gender differences in cognition, neurophysiology, and neuroanatomy. *F1000Res*, 7.
44. Jäncke, L., Leipold, S., & Burkhard, A. (2018). The neural underpinnings of music listening under different attention conditions. *Neuroreport*, 29(7), 594-604.
45. Klein, C., Metz, S. I., Elmer, S., & Jäncke, L. (2018). The interpreter's brain during rest - Hyperconnectivity in the frontal lobe. *PLoS One*, 13(8), e0202600.
46. Marcar, V. L., Baselgia, S., Lüthi-Eisenegger, B., & Jäncke, L. (2018). Shades of grey; Assessing the contribution of the magno- and parvocellular systems to neural processing of the retinal input in the human visual system from the influence of

neural population size and its discharge activity on the VEP. *Brain Behav*, 8(3), e00860.

47. Marcar, V. L., & Jäncke, L. (2018). Stimuli to differentiate the neural response at successive stages of visual processing using the VEP from human visual cortex. *J Neurosci Methods*, 293, 199-209.
48. Reinders, A. A. T. S., Chalavi, S., Schlumpf, Y. R., Vissia, E. M., Nijenhuis, E. R. S., Jäncke, L. et al. (2018). Neurodevelopmental origins of abnormal cortical morphology in dissociative identity disorder. *Acta Psychiatr Scand*, 137(2), 157-170.
49. Valizadeh, S. A., Liem, F., Mérillat, S., Hänggi, J., & Jäncke, L. (2018). Identification of individual subjects on the basis of their brain anatomical features. *Sci Rep*, 8(1), 5611.
50. Thomas Wagner, Martin Keller, & Lutz Jaencke (2018) Impulsivity Subtypes and Maladaptive Road Performance among Drivers in Germany and Switzerland. *Journal of Traffic and Transportation Engineering* 6 (2018) 73-87.

2017

51. Binder, J. C., Bezzola, L., Haueter, A. I., Klein, C., Kühnis, J., Baetschmann, H. et al. (2017). Expertise-related functional brain network efficiency in healthy older adults. *BMC Neurosci*, 18(1), 2.
52. Dall'Acqua, P., Johannes, S., Mica, L., Simmen, H. P., Glaab, R., Fandino, J. et al. (2017). Functional and Structural Network Recovery after Mild Traumatic Brain Injury: A 1-Year Longitudinal Study. *Front Hum Neurosci*, 11, 280.
53. Dall'Acqua, P., Johannes, S., Mica, L., Simmen, H. P., Glaab, R., Fandino, J. et al. (2017). Prefrontal Cortical Thickening after Mild Traumatic Brain Injury: A One-Year Magnetic Resonance Imaging Study. *J Neurotrauma*, 34(23), 3270-3279.
54. Elmer, S., Greber, M., Pushparaj, A., Kühnis, J., & Jäncke, L. (2017). Faster native vowel discrimination learning in musicians is mediated by an optimization of mnemonic functions. *Neuropsychologia*, 104, 64-75.
55. Elmer, S., Kühnis, J., Rauch, P., Abolfazl Valizadeh, S., & Jäncke, L. (2017). Functional connectivity in the dorsal stream and between bilateral auditory-related cortical areas differentially contribute to speech decoding depending on spectro-temporal signal integrity and performance. *Neuropsychologia*, 106, 398-406.
56. Hirsiger, S., Koppelmans, V., Mérillat, S., Erdin, C., Narkhede, A., Brickman, A. M. et al. (2017). Executive Functions in Healthy Older Adults Are Differentially Related to Macro- and Microstructural White Matter Characteristics of the Cerebral Lobes. *Front Aging Neurosci*, 9, 373.
57. Kaufmann, L. K., Baur, V., Hänggi, J., Jäncke, L., Piccirelli, M., Kollias, S. et al. (2017). Fornix Under Water? Ventricular Enlargement Biases Forniceal Diffusion Magnetic Resonance Imaging Indices in Anorexia Nervosa. *Biol Psychiatry Cogn Neurosci Neuroimaging*, 2(5), 430-437.
58. Klein, C., Hiestand, T., Ghadri, J. R., Templin, C., Jäncke, L., & Hänggi, J. (2017). Takotsubo Syndrome - Predictable from brain imaging data. *Sci Rep*, 7(1), 5434.
59. Koppelmans, V., Hoogendam, Y. Y., Hirsiger, S., Mérillat, S., Jäncke, L., & Seidler, R. D. (2017). Regional cerebellar volumetric correlates of manual motor and cognitive function. *Brain Struct Funct*, 222(4), 1929-1944.
60. Kropotov, J. D., Ponomarev, V. A., Pronina, M., & Jäncke, L. (2017). Functional indexes of reactive cognitive control: ERPs in cued go/no-go tasks. *Psychophysiology*, 54(12), 1899-1915.

61. Kurth, F., Jancke, L., & Luders, E. (2017). Sexual dimorphism of Broca's region: More gray matter in female brains in Brodmann areas 44 and 45. *J Neurosci Res*, 95(1-2), 626-632.
62. Markovic, A., Kühnis, J., & Jäncke, L. (2017). Task Context Influences Brain Activation during Music Listening. *Front Hum Neurosci*, 11, 342.
63. Rinke, L., Candrian, G., Loher, S., Blunck, A., Mueller, A., & Jäncke, L. (2017). Facial emotion recognition deficits in children with and without attention deficit hyperactivity disorder: a behavioral and neurophysiological approach. *Neuroreport*, 28(14), 917-921.
64. Steiger, V. R., Brühl, A. B., Weidt, S., Delsignore, A., Rufer, M., Jäncke, L. et al. (2017). Pattern of structural brain changes in social anxiety disorder after cognitive behavioral group therapy: a longitudinal multimodal MRI study. *Mol Psychiatry*, 22(8), 1164-1171.
65. Valizadeh, S. A., Hänggi, J., Mérillat, S., & Jäncke, L. (2017). Age prediction on the basis of brain anatomical measures. *Hum Brain Mapp*, 38(2), 997-1008.
66. Valizadeh, S. A., Hänggi, J., Mérillat, S., & Jäncke, L. (2017). Age prediction on the basis of brain anatomical measures. *Hum Brain Mapp*, 38(2), 997-1008.
67. Jäncke, L. (2017) Selbst ist das Hirn. *Gehirn und Geist*, 52(4)

2016

68. Alahmadi, N., Evdokimov, S. A., Kropotov, Y. J., Müller, A. M., & Jäncke, L. (2016). Different Resting State EEG Features in Children from Switzerland and Saudi Arabia. *Front Hum Neurosci*, 10, 559.
69. Binder, J. C., Martin, M., Zöllig, J., Röcke, C., Mérillat, S., Eschen, A. et al. (2016). Multi-domain training enhances attentional control. *Psychol Aging*, 31(4), 390-408.
70. Casutt, G., Martin, M., & Jäncke, L. (2016). Driving Simulator Training Is Associated with Reduced Inhibitory Workload in Older Drivers. *Geriatrics (Basel)*, 1(3).
71. Dall'Acqua, P., Johannes, S., Mica, L., Simmen, H. P., Glaab, R., Fandino, J. et al. (2016). Connectomic and Surface-Based Morphometric Correlates of Acute Mild Traumatic Brain Injury. *Front Hum Neurosci*, 10, 127.
72. Dittinger, E., Barbaroux, M., D'Imperio, M., Jäncke, L., Elmer, S., & Besson, M. (2016). Professional Music Training and Novel Word Learning: From Faster Semantic Encoding to Longer-lasting Word Representations. *J Cogn Neurosci*, 28(10), 1584-1602.
73. Elmer, S., Hänggi, J., & Jäncke, L. (2016). Interhemispheric transcallosal connectivity between the left and right planum temporale predicts musicianship, performance in temporal speech processing, and functional specialization. *Brain Struct Funct*, 221(1), 331-344.
74. Ghadri, J. R., Sarcon, A., Diekmann, J., Bataiosu, D. R., Cammann, V. L., Jurisic, S. et al. (2016). Happy heart syndrome: role of positive emotional stress in takotsubo syndrome. *Eur Heart J*, 37, 2823-2829.
75. Hänggi, J., Lohrey, C., Drobetz, R., Baetschmann, H., Forstmeier, S., Maercker, A. et al. (2016). Strength of Structural and Functional Frontostriatal Connectivity Predicts Self-Control in the Healthy Elderly. *Front Aging Neurosci*, 8, 307.
76. Hirsiger, S., Koppelmans, V., Mérillat, S., Liem, F., Erdeniz, B., Seidler, R. D. et al. (2016). Structural and functional connectivity in healthy aging: Associations for cognition and motor behavior. *Hum Brain Mapp*, 37(3), 855-867.
77. Hirsiger, S., Koppelmans, V., Mérillat, S., Liem, F., Erdeniz, B., Seidler, R. D. et al. (2016). Structural and functional connectivity in healthy aging: Associations for cognition and motor behavior. *Hum Brain Mapp*, 37(3), 855-867.

78. Jäncke, L., & Alahmadi, N. (2016). Detection of independent functional networks during music listening using electroencephalogram and sLORETA-ICA. *Neuroreport*, 27(6), 455-461.
79. Jäncke, L., & Alahmadi, N. (2016). Resting State EEG in Children With Learning Disabilities: An Independent Component Analysis Approach. *Clin EEG Neurosci*, 47(1), 24-36.
80. Jäncke, L., & Alahmadi, N. (2016). Resting State EEG in Children With Learning Disabilities: An Independent Component Analysis Approach. *Clin EEG Neurosci*, 47(1), 24-36.
81. Klein, C., Diaz Hernandez, L., Koenig, T., Kottlow, M., Elmer, S., & Jäncke, L. (2016). The Influence of Pre-stimulus EEG Activity on Reaction Time During a Verbal Sternberg Task is Related to Musical Expertise. *Brain Topogr*, 29(1), 67-81.
82. Klein, C., Diaz Hernandez, L., Koenig, T., Kottlow, M., Elmer, S., & Jäncke, L. (2016). The Influence of Pre-stimulus EEG Activity on Reaction Time During a Verbal Sternberg Task is Related to Musical Expertise. *Brain Topogr*, 29(1), 67-81.
83. Klein, C., Liem, F., Hänggi, J., Elmer, S., & Jäncke, L. (2016). The “silent” imprint of musical training. *Hum Brain Mapp*, 37(2), 536-546.
84. Kropotov, J., Ponomarev, V., Tereshchenko, E. P., Müller, A., & Jäncke, L. (2016). Effect of Aging on ERP Components of Cognitive Control. *Front Aging Neurosci*, 8, 69.
85. Lutz, J., Brühl, A. B., Doerig, N., Scheerer, H., Achermann, R., Weibel, A. et al. (2016). Altered processing of self-related emotional stimuli in mindfulness meditators. *Neuroimage*, 124(Pt A), 958-967.
86. Lutz, J., Brühl, A. B., Scheerer, H., Jäncke, L., & Herwig, U. (2016). Neural correlates of mindful self-awareness in mindfulness meditators and meditation-naïve subjects revisited. *Biol Psychol*, 119, 21-30.
87. Marcar, V. L., & Jäncke, L. (2016). To see or not to see; the ability of the magno- and parvocellular response to manifest itself in the VEP determines its appearance to a pattern reversing and pattern onset stimulus. *Brain Behav*, 6(11), e00552.
88. Muller, A. M., Méryllat, S., & Jäncke, L. (2016). Small Changes, But Huge Impact? The Right Anterior Insula’s Loss of Connection Strength during the Transition of Old to Very Old Age. *Front Aging Neurosci*, 8, 86.
89. Muller, A. M., Méryllat, S., & Jäncke, L. (2016). Older but still fluent? Insights from the intrinsically active baseline configuration of the aging brain using a data driven graph-theoretical approach. *Neuroimage*, 127, 346-362.
90. Muller, A. M., Méryllat, S., & Jäncke, L. (2016). Older but still fluent? Insights from the intrinsically active baseline configuration of the aging brain using a data driven graph-theoretical approach. *Neuroimage*, 127, 346-362.
91. Rogenmoser, L., Zollinger, N., Elmer, S., & Jäncke, L. (2016). Independent component processes underlying emotions during natural music listening. *Soc Cogn Affect Neurosci*, 11(9), 1428-1439.
92. Petermann, F. & Jäncke, L. (2016) Neuropsychological Assessment Battery (NAB) – Aussagekraft und Anwendungen der deutschsprachigen Adaptation. *Zeitschrift für Neuropsychologie*, 27, 129–131.

2015

93. Binder, J. C., Zöllig, J., Eschen, A., Méryllat, S., Röcke, C., Schoch, S. F. et al. (2015). Multi-domain training in healthy old age: Hotel Plastisse as an iPad-based serious game to systematically compare multi-domain and single-domain training. *Front Aging Neurosci*, 7, 137.
94. Cheetham, M., Wu, L., Pauli, P., & Jancke, L. (2015). Arousal, valence, and the uncanny valley: psychophysiological and self-report findings. *Front Psychol*, 6, 981.

95. Elmer, S., Rogenmoser, L., Kühnis, J., & Jäncke, L. (2015). Bridging the gap between perceptual and cognitive perspectives on absolute pitch. *J Neurosci*, *35*(1), 366-371.
96. Hänggi, J., Langer, N., Lutz, K., Birrer, K., Mérillat, S., & Jäncke, L. (2015). Structural brain correlates associated with professional handball playing. *PLoS One*, *10*(4), e0124222.
97. Jäncke, L., Kühnis, J., Rogenmoser, L., & Elmer, S. (2015). Time course of EEG oscillations during repeated listening of a well-known aria. *Front Hum Neurosci*, *9*, 401.
98. Jäncke, L., Mérillat, S., Liem, F., & Hänggi, J. (2015). Brain size, sex, and the aging brain. *Hum Brain Mapp*, *36*(1), 150-169.
99. Jäncke, L., & Petermann, F. (2015). Neuropsychologie in der Psychiatrie. *Zeitschrift für Psychiatrie*.
100. Joel, D., Berman, Z., Tavor, I., Wexler, N., Gaber, O., Stein, Y. et al. (2015). Sex beyond the genitalia: The human brain mosaic. *Proc Natl Acad Sci U S A*, *112*(50), 15468-15473.
101. Klein, C., Hänggi, J., Luechinger, R., & Jäncke, L. (2015). MRI with and without a high-density EEG cap--what makes the difference. *Neuroimage*, *106*, 189-197.
102. Koelsch, S., & Jäncke, L. (2015). Music and the heart. *Eur Heart J*, *36*(44), 3043-3049.
103. Koppelmans, V., Hirsiger, S., Mérillat, S., Jäncke, L., & Seidler, R. D. (2015). Cerebellar gray and white matter volume and their relation with age and manual motor performance in healthy older adults. *Hum Brain Mapp*, *36*(6), 2352-2363.
104. Liem, F., Mérillat, S., Bezzola, L., Hirsiger, S., Philipp, M., Madhyastha, T. et al. (2015). Reliability and statistical power analysis of cortical and subcortical FreeSurfer metrics in a large sample of healthy elderly. *Neuroimage*, *108*, 95-109.
105. Opialla, S., Lutz, J., Scherpiet, S., Hittmeyer, A., Jäncke, L., Rufer, M. et al. (2015). Neural circuits of emotion regulation: a comparison of mindfulness-based and cognitive reappraisal strategies. *Eur Arch Psychiatry Clin Neurosci*, *265*(1), 45-55.
106. Rogenmoser, L., Elmer, S., & Jäncke, L. (2015). Absolute pitch: evidence for early cognitive facilitation during passive listening as revealed by reduced P3a amplitudes. *J Cogn Neurosci*, *27*(3), 623-637.
107. Rüttsche, B., Hauser, T. U., Jäncke, L., & Grabner, R. H. (2015). When problem size matters: differential effects of brain stimulation on arithmetic problem solving and neural oscillations. *PLoS One*, *10*(3), e0120665.
108. Scherpiet, S., Herwig, U., Opialla, S., Scheerer, H., Habermeyer, V., Jäncke, L. et al. (2015). Reduced neural differentiation between self-referential cognitive and emotional processes in women with borderline personality disorder. *Psychiatry Res*, *233*(3), 314-323.
109. Seidler, R., Erdeniz, B., Koppelmans, V., Hirsiger, S., Mérillat, S., & Jäncke, L. (2015). Associations between age, motor function, and resting state sensorimotor network connectivity in healthy older adults. *Neuroimage*, *108*, 47-59.
110. Späti, J., Hänggi, J., Doerig, N., Ernst, J., Sambataro, F., Brakowski, J. et al. (2015). Prefrontal thinning affects functional connectivity and regional homogeneity of the anterior cingulate cortex in depression. *Neuropsychopharmacology*, *40*(7), 1640-1648.

Book chapters

1. Jäncke, L. & Heuer, H. (2018). Psychomotorik. In: Kiesel, Andrea; Spada, Hans; Bäuml, Karl-Heinz T. Lehrbuch Allgemeine Psychologie. Bern: Hogrefe, 537-583.
2. Jäncke, Lutz (2018). Music and Memory. The Oxford Handbook of Music and the Brain. Edited by Michael H. Thaut and Donald A. Hodges. Psychology, Cognitive Neuroscience Online Publication.
3. Kurth, Florian; Jäncke, Lutz; Luders, Eileen (2018). Integrating Cytoarchitectonic Probabilities with MRI-Based Signal Intensities to Calculate Regional Volumes of Interest. In: Spalletta, Gianfranco; Piras, Fabrizio; Gili, Tommaso. Brain Morphometry. New York: Springer, 121-129.
4. Schlumpf, Yolanda & Jäncke, Lutz. (2017). Opfer: Körperliche Reaktionen nach sexueller Gewalt. In: Rügger, P. & Gysi, J. (Hrsg.). Handbuch sexualisierte Gewalt: Therapie, Prävention und Strafverfolgung. Hogrefe. 107-116.
5. Kilt, C; Jäncke, Lutz; Vorderer, Peter (2015). Die Wirkungen von Computerspielen auf das Fahrverhalten. In: Klimmt, C; Maurer, M; Hole, H; Baumann, E. Verkehrssicherheitskommunikation: Beiträge der empirischen Forschung zur strategischen Unfallprävention. Wiesbaden: Springer VS, 239-254.
6. Jäncke, L. (2015). Musik und Hirnplastizität. In: Bernatzky, Günther & Kreutz, Gunter (Hrsg.). Musik und Medizin - Chancen für Therapie, Prävention und Bildung, Seiten 49-67.
7. Klimmt, C., Jäncke, L., & Vorderer, P. (2015) Die Wirkungen von Computerspielen auf das Fahrverhalten. In Verkehrssicherheitskommunikation. Springer VS, Wiesbaden, pp. 239–254.

Books

1. Jäncke, L. (2017). Lehrbuch Kognitive Neurowissenschaften. Hogrefe Göttingen.
2. Jäncke, L. (2015). Ist unser Hirn vernünftig? (1. und 2. Aufl.). Huber-Hogrefe, Bern.

Tests and test manuals

1. Petermann, F., Jäncke, L., & Waldmann, H. C. (2016). NAB Modul Aufmerksamkeit: Manual: Durchführung und Auswertung: deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB)). Hogrefe-Verlag.
2. Petermann, F., Jäncke, L., Waldmann, H. C., Stern, R. A., & others, A. (2016). NAB Neuropsychological Assessment Battery-Grundlagen und Psychometrie: Manual: deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB). Hogrefe-Verlag.
3. Petermann, F., Jäncke, L., Waldmann, & Hans-Christian. (2016). NAB Modul Gedächtnis: Manual : Durchführung und Auswertung : deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB) von Robert A. Stern und Travis White.
4. Petermann, F., Jäncke, L., Waldmann, & Hans-Christian. (2016). NAB: Neuropsychological assessment battery : deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB). Video-Tutorial Fallbeispiel / Franz Petermann, Lutz Jäncke, Hans-Christian Waldmann; unter Mitarbeit von Mona Bornschlegl. Hogrefe.

5. Petermann, F., Jäncke, L., Waldmann, Hans-Christian, Stern, R. A., & White, T. (2016). NAB Modul Aufmerksamkeit: deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB) von Robert A. Stern und Travis White. Hogrefe.
6. Petermann, F., Jäncke, L., Waldmann, Hans-Christian, Stern, R. A., & White, T. (2016). NAB Modul Exekutive Funktionen: Durchführung und Auswertung. Hogrefe Verlag.
7. Petermann, F., Jäncke, L., Waldmann, Hans-Christian, Stern, R. A., & White, T. (2016). NAB Modul Screening: deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB) von Robert A. Stern und Travis White. Hogrefe.
8. Petermann, F., Jäncke, L., Waldmann, Hans-Christian, Stern, R. A., & White, T. (2016). NAB Modul Sprache: deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB) von Robert A. Stern und Travis White. Hogrefe.
9. Petermann, F., Jäncke, L., Waldmann, Hans-Christian, Stern, R. A., & White, T. (2016). NAB Modul Wahrnehmung: deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB) von Robert A. Stern und Travis White Franz Petermann, Lutz Jäncke, Hans-Christian Waldmann; unter Mitarbeit von Mona Bornschlegl. Hogrefe.
10. Petermann, F., Jäncke, L., Waldmann, Hans-Christian, Stern, R. A., & White, T. (2016). NAB Neuropsychological Assessment Battery - Grundlagen und Psychometrie: Manual: deutschsprachige Adaptation der Neuropsychological Assessment Battery (NAB) von Robert A. Stern und Travis White. Hogrefe.