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- 1975-1979 **Studies in Biology & Behavioral Sciences, ETH Zürich.**
1979 **Diploma** (Dipl. natw. ETH in Naturwissenschaften / Biologie), Thesis “*Veränderungen von Frequenz- und Amplitudencharakteristika in den Schlafstadien 3 und 4 nach Schlafentzug*“ (supervisors D. Lehmann, A. Borbély, I. Strauch).
- 1980-1982 **Graduate School of Psychology, University of British Columbia (UBC),** Vancouver, Canada.
- 1982 **M.A. Psychology.** Thesis “An electrocortical investigation of word recognition in a backward masking paradigm” (supervisors: R.D. Hare, A. Treisman, D. Kahneman).
- 1982-86 **Research assistant** Neurology, University Hospital Zürich, **doctoral student** Biology, ETH Zürich.
- 1986 **Doctorate** (Dr. sc. nat. ETH). Dissertation “*Spatial analysis of event-related brain potentials in perception and cognition*” (supervisors H. Fischer, D. Lehmann).
- 1987-89 **Postdoc**, University of California Medical School, and V.A. Medical Center, San Francisco. SNF fellow and UCSF research associate. Topic “*Brain mapping of neurotransmitter effects on attention and human information processing*”.
- 1989-91 **Research assistant**, Neurology, University Hospital Zürich (D. Lehmann).
1990 **Consultant**, University of California, San Francisco (Oct/Nov. 1990).
- 1991-04 **Senior Researcher and Head Neurophysiology**, Department of Child and Adolescent Psychiatry, University of Zürich (Director H.-C. Steinhausen).
- 1999 **Privatdozent (PD, Venia legendi / Habilitation)** „*Cognitive Brain Mapping*“ in clinical neurophysiology, Medical Faculty, University of Zürich.
- 2001 **JSPR Fellow**, Ibaraki University, Mito, Japan (H. Ozaki, Feb/Mar. 2001).
since 2004 **Head of Brain Mapping Research** (until 2023), Department of Child and Adolescent Psychiatry and Psychotherapy, Psychiatric University Hospital, University of Zürich (Director S. Walitza).
- since 2006 **Professor** (Titularprofessur), Medical Faculty, University of Zürich.
Topics: Multimodal imaging of development and regulation, attention & ADHD, reading & dyslexia, training & plasticity, multicenter studies, genetics.
- since 2009 **Professor** (W3), Medical Faculty Mannheim/ Heidelberg University, and research group leader in developmental clinical neurophysiology (60%, 50% since 2015), Department of Child and Adolescent Psychiatry and Psychotherapy, Central Institute of Mental Health Mannheim (ZI). Topics: Multimodal imaging of development, ADHD, neurofeedback, conduct disorder, plasticity, gene x environment interactions.

Research interests: Multimodal brain mapping/imaging of developmental trajectories & plasticity in child and adolescent psychiatry, longitudinal studies, sleep, ADHD, reading acquisition and dyslexia, aggression, disorder-specific and transdiagnostic pathophysiological brain mechanisms, biomarkers, clinical translation in RCTs, personalized treatments, neurofeedback/biofeedback, meta-analyses, ecological assessment & treatment, imaging genetics, gene x environment interactions.

Publications: over 280 peer reviewed original publications, h-index WoS=72, Google Scholar=93.

Five most important recent publications:

- Hauser, T. U., Iannaccone, R., Ball, J., Mathys, C., **Brandeis, D.**, Walitza, S., & Brem, S. (2014). Medial prefrontal cortex mediates impaired decision making processes in juvenile attention deficit/hyperactivity disorder (ADHD). *JAMA Psychiatry*, *71*(10):1165-73.
- Cortese, S., Ferrin, M., **Brandeis, D.**, ...Sonuga-Barke, E. J. S., & European ADHD Guidelines Group. (2016). Neurofeedback for attention-deficit/hyperactivity disorder: meta-analysis of clinical and neuropsychological outcomes from randomized controlled trials. *Journal of the American Academy of Child & Adolescent Psychiatry*, *55*(6), 444-455.
- Holz, N. E., Boecker, R., ...Meyer-Lindenberg, A., Banaschewski, T. *, **Brandeis, D.***, & Laucht, M.* (2018). Early maternal care may counteract familial liability for psychopathology in the reward circuitry. *Social Cognitive and Affective Neuroscience*, *13*(11), 1191-1201. [*equal contributions]
- Brem, S., Maurer, U., ...van der Mark, S., Schulz, E., Bucher, K., Moll, K., Landerl, K., Martin, E., Goebel, R., Schulte-Körne, G., Blomert, L., Wimmer, H., & **Brandeis, D.** (2020). Visual word form processing deficits driven by severity of reading impairments in children with developmental dyslexia *Scientific Reports*, *10*(1), 1828.
- Purper-Ouakil, D., ...Banaschewski, T., Baumeister, S., ...Drechsler, R., ...Häge, A., Kaiser, A., Mayaud, L., Mechler, K., ...Tagwerker, F., Walitza, S., Werling, A., Bioulac, S., & **Brandeis, D.** (2022). Personalized at-home neurofeedback compared to long-acting methylphenidate in children with ADHD: NEWROFEED, a European randomized non-inferiority trial. *Journal of Child Psychology and Psychiatry*, *63*(2), 187-198.

Grants: SNF, DFG, BMBF, EU and University grants as PI and CI

Awards:

1987 **ETH Silver Medal** for outstanding doctoral thesis
2003 **Kramer-Pollnow Award** for biological research on ADHD

Editorial /Advisory Boards:

Brain Topography, Journal of Child Psychology and Psychiatry.

Reviews: Reviewer for various international journals, international, national & private research organisations and funding agencies (SNF, DFG etc.).

Teaching and supervision:

Teaching and supervision /co-supervision of more than 40 doctoral and master theses (M.D., Ph.D., Dr. sc. hum., lic. phil., dipl. natw. ETH., M.Sc.)

Memberships:

Society for Biological Psychiatry, International Society for Brain Electromagnetic Topography (ISBET) and Neuroimaging in Psychiatry (ISNIP), Swiss Societies for Neuroscience (SSN) and Clinical Neurophysiology (SGKN), Zurich Neuroscience center (ZNZ), EUNETHYDIS (European Network on Hyperkinetic Disorders).

Publications

Original work with peer review

1. Borbély, A. A., Baumann, F., **Brandeis, D.**, Strauch, I., & Lehmann, D. (1981). Sleep deprivation: effect on sleep stages and EEG power density in man. *Electroencephalography and Clinical Neurophysiology*, 51, 483-493. [SCI=2.027]
2. **Brandeis, D.**, & Lehmann, D. (1986). Event-related potentials of the brain and cognitive processes: Approaches and applications. *Neuropsychologia*, 24, 151-168. [SCI=2.059]
3. **Brandeis, D.**, & Lehmann, D. (1989). Segments of ERP map series reveal landscape changes with visual attention and subjective contours. *Electroencephalography and Clinical Neurophysiology*, 73, 507-519. [SCI=2.027]
4. Callaway, E., Halliday, R., Naylor, H., & **Brandeis, D.**(1991). Clonidine and scopolamine: Differences and similarities in how they change human information processing. *Progress in Neuropsychopharmacology and Biological Psychiatry*, 15, 497-502. [SCI=0.887]
5. **Brandeis, D.**, Naylor, H., Halliday, R., Callaway, E., & Yano, L. (1992). Scopolamine effects on visual information processing, attention and event-related potential map latencies. *Psychophysiology*, 29, 315-336. [SCI=2.827]
6. Michel, C. M., Lehmann, D., Henggeler, B., & **Brandeis, D.** (1992). Localization of the sources of EEG delta, theta, alpha, and beta frequency bands using the FFT dipole approximation. *Electroencephalography and Clinical Neurophysiology*, 82, 38-44. [SCI=2.027]
7. **Brandeis, D.**, Vitacco, D., & Steinhausen, H.-C. (1994). Mapping brain-electric microstates in dyslexic children during reading. *Acta Paedopsychiatrica*, 56, 239-247.
8. Halliday, R., Naylor, H., **Brandeis, D.**, Callaway, E., Yano, L., & Herzig, K. (1994). The effect of D-amphetamine, clonidine and yohimbine on human information processing. *Psychophysiology*, 31, 331-337. [SCI=2.827]
9. **Brandeis, D.**, Lehmann, D., Michel, C. M., & Mingrone, W. (1995). Mapping event-related potential microstates to sentence endings. *Brain Topography*, 8, 145-159. [SCI=1.014]
10. Fallgatter, A. J., **Brandeis, D.**, & Strik, W. K. (1997). A robust assessment of the NoGo-anteriorization of P300 microstates in a cued continuous performance test. *Brain Topography*, 9, 295-302. [SCI=1.014]
11. Kondakor, I., **Brandeis, D.**, Wackermann, J., Kochi, K., Koenig, T., Frei, E., Pascual-Marqui, R. D., Yagy, T., & Lehmann, D. (1997). Multichannel EEG fields during and without visual input: frequency domain model source locations and dimensional complexity. *Neuroscience Letters*, 226, 49-52. [SCI=2.090]
12. Kondakor, I., Lehmann, D., Michel, C. M., **Brandeis, D.**, Kochi, K., & Koenig, T. (1997). Prestimulus EEG microstates influence visual event-related potential microstates in field maps with 47 channels. *Journal of Neural Transmission: General Section*, 226, 49-52. [SCI=1.183]
13. von Aster, M., Zachmann, M., **Brandeis, D.**, Wohlrab, G., Richner, M., & Steinhausen, H.-C. (1997). Psychiatric, neuropediatric and neuropsychological symptoms in a case of Hypomelanosis Ito. *European Child and Adolescent Psychiatry*, 6, 227-233. [SCI=na]
14. Yamadera, H., Masaaki, K., Tsukahara, Y., **Brandeis, D.**, & Okuma, T. (1997). Zopiclone versus Diazepam effects on EEG power maps in healthy volunteers. *Acta Neurobiologica Experimentalis*, 57, 151-155. [SCI=0.480]

15. **Brandeis, D.**, van Leeuwen, T. H., Rubia, K., Vitacco, D., Steger, J., Pascual-Marqui, R. D., & Steinhausen, H.-C. (1998). Neuroelectric mapping reveals precursors of failures to stop in children with attention deficits. *Behavioral Brain Research*, *94*, 111-126. [SCI 1998=2.796]
16. Rubia, K., Osterlaan, J., Sergeant, J., **Brandeis, D.**, & van Leeuwen, T. H. (1998). Inhibitory dysfunction in hyperactive boys. *Behavioral Brain Research*, *94*, 25-32. [SCI 1998=2.796]
17. Strik, W. K., Fallgatter, A. J., **Brandeis, D.**, & Pascual-Marqui, R. D. (1998). Three dimensional tomography of event-related potentials during response inhibition: evidence for phasic frontal lobe activation. *Electroencephalography and Clinical Neurophysiology*, *108*, 406-413. [SCI 1998=2.45]
18. van Leeuwen, T. H., Steinhausen, H.-C., Overtom, C.C. E., Pascual-Marqui, R. D., van't Klooster, B., Rothenberger, A., Sergeant, J. A., & **Brandeis, D.** (1998). The Continuous Performance Test revisited with neuroelectric brain mapping: impaired orienting in children with attention deficits. *Behavioral Brain Research*, *94*, 97-110. [SCI 1998=2.796]
19. Steger, J., Imhof, K., Steinhausen, H.-C., & **Brandeis, D.** (2000). Brain mapping of bilateral interactions in ADHD and control boys. *Clinical Neurophysiology*, *11*, 1141-1156. [SCI 2002=2.112]
20. Steger, J., Imhof, K., Coutts, E., Gundelfinger, R., Steinhausen, H.-C., & **Brandeis, D.** (2001). Attentional and neuromotor deficits in ADHD. *Developmental Medicine and Child Neurology*, *43*, 172-179. [SCI 2002=2.107]
21. Steger, J., Imhof, K., Denoth, J., Pascual-Marqui, R. D., Steinhausen, H.-C., & **Brandeis, D.** (2001). Brain mapping of bilateral visual interactions in children. *Psychophysiology*, *38*, 243-253. [SCI 2002=2.674]
22. **Brandeis, D.**, Banaschewski, T., Baving, L., Georgiewa, P., Blanz, B., Schmidt, M. H., Warnke, A., Steinhausen, H. C., & Scheuerpflug, P. (2002). Multicenter P300 brain mapping of impaired attention to cues in hyperkinetic children. *Journal of the American Academy Child and Adolescent Psychiatry*, *41*(8), 990-998. [SCI 2002=3.662]
23. Vitacco, D., **Brandeis, D.**, Pascual-Marqui, R. D., & Martin, E. (2002). Correspondence of event-related potential tomography and functional magnetic resonance imaging during language processing. *Human Brain Mapping*, *17*(1), 4-12. [SCI 2002=5.076]
24. Banaschewski, T., **Brandeis, D.**, Heinrich, H., Albrecht, B., Woerner, W., Brunner, E., Rothenberger A. (2003), Association of ADHD and conduct disorder - brain electrical evidence for the existence of a distinct subtype. *Journal of Child Psychology and Psychiatry*, *44*(3), 356-76. [SCI 2003=2.743]
25. Maurer, U., Brem, S., Bucher, K., & **Brandeis, D.** (2003). Altered tone and phoneme mismatch negativity in children at risk for dyslexia. *Neuroreport*, *14*(17), 2245-50. [SCI 2003=2.503]
26. Maurer, U., Bucher, K., Brem, S., & **Brandeis, D.** (2003). Development of the automatic mismatch response: from frontal positivity in kindergarten children to the mismatch negativity (MMN). *Clinical Neurophysiology*, *114*(5), 808-17. [SCI 2003=2.485]
27. Steinhausen, H.C., Imhof, K., Drechsler, R., Földényi, M., & **Brandeis, D.** (2003). The clinical course of attention deficit hyperactivity disorder from late childhood to adolescence. *Journal of the American Academy of Child and Adolescent Psychiatry*, *42*(9), 1085-92. [SCI 2003=3.779]
28. Banaschewski, T., **Brandeis, D.**, Heinrich, H., Albrecht, B., Brunner, E., & Rothenberger, A. (2004). Questioning inhibitory control as the specific deficit of ADHD - evidence from brain electrical activity. *Journal of Neural Transmission*, *111*(7) 841-64. [SCI 2004=2.628]

29. Gottselig, J. M., **Brandeis, D.**, Hofer-Tinguely, G., Borbély, A. A., & Achermann, P. (2004). Human central auditory plasticity associated with tone sequence learning. *Learning and Memory, 11*(2), 162-71. [SCI 2004=4.694]
30. Albrecht, B., Banaschewski, T., **Brandeis, D.**, Heinrich, H., & Rothenberger, A. (2005). Response inhibition deficits in externalizing child psychiatric disorders: An ERP-study with the Stop-task. *Behavioral and Brain Functions, 1*, 22. [SCI 2009=2.336]
31. Brem, S., Lang-Dullenkopf, A., Maurer, U., Halder, P., Bucher, K., **Brandeis, D.** (2005). Neurophysiological signs of rapidly emerging visual expertise for symbol strings. *Neuroreport, 16*(1), 45-48. [SCI 2004=2.351]
32. Drechsler, R., **Brandeis, D.**, Földényi, M., Imhof, K., & Steinhausen, H. C. (2005). The course of neuropsychological functions in children with attention deficit hyperactivity disorder from late childhood to early adolescence. *Journal of Child Psychology and Psychiatry, 46* (8), 824-36. [SCI 2004=2.782]
33. Gamma, A., **Brandeis, D.**, Brandeis, R., & Vollenweider, F. X. (2005). The P3 in "ecstasy" polydrug users during response inhibition and execution. *Journal of Psychopharmacology, 19*(5), 504-512. [SCI 2004=2.336]
34. Halder, P., Sterr, A., Brem, S., Bucher, K., Kollias, S. S., & **Brandeis, D.** (2005). Electrophysiological evidence for cortical plasticity with movement repetition. *European Journal of Neuroscience, 21*(8), 2271-2277. [SCI 2004=3.82]
35. Maurer, U., **Brandeis, D.**, & McCandliss, B. D. (2005). Fast, visual specialization for reading in English revealed by the topography of the N170 ERP response. *Behavioral and Brain Functions, 1*, 13. [SCI 2009=2.336]
36. Maurer, U., Brem, S., Bucher, K., & **Brandeis, D.** (2005). Emerging neurophysiological specialization for letter strings. *Journal of Cognitive Neuroscience, 17*(10), 1532-1552. [SCI 2004=5.275]
37. Müller, U. C., Sonuga-Barke, E. J., **Brandeis, D.**, & Steinhausen, H. C. (2006). Online measurement of motivational processes: Introducing the Continuous Delay Aversion Test (ConDAT). *Journal of Neuroscience Methods, 151*(1), 45-51. [SCI 2006=2.243]
38. Brem, S., Bucher, K., Halder, P., Summers, P., Dietrich, T., Martin, E., & **Brandeis, D.** (2006). Evidence for developmental changes in the visual word processing network beyond adolescence. *Neuroimage, 29*(3), 822-837. [SCI 2006=5.559]
39. Halder, P., Curt, A., Brem, S., Lang-Dullenkopf, A., Bucher, K., Kollias, S. S., & **Brandeis, D.** (2006). Preserved aspects of cortical foot control in paraplegia. *NeuroImage, 31*, 692-698. [SCI 2006=5.559]
40. Bucher, K., Dietrich, T., Marcar, V. L., Brem, S., Halder, P., Boujraf, S., Summers, P., **Brandeis, D.**, Martin, E., & Loenneker, T. (2006). Maturation of luminance- and motion-defined form perception beyond adolescence: a combined ERP and fMRI study. *Neuroimage, 31*, 1625-1636. [SCI 2006=5.559]
41. Mandelkow, H., Halder, P., Boesiger, P., & **Brandeis, D.** (2006). Synchronization facilitates removal of MRI artefacts from concurrent EEG recordings and increases usable bandwidth. *Neuroimage, 32*, 1120-1126. [SCI 2006=5.559]
42. Maurer, U., Brem, S., Kranz, F., Bucher, K., Benz, R., Halder, P., Steinhausen, H. C., & **Brandeis, D.** (2006). Coarse neural tuning peaks when children learn to read. *Neuroimage, 33*, 749-758. [SCI 2006=5.559]

43. Stein, M., Dierks, T., **Brandeis, D.**, Wirth, M., Strik, W., & Koenig, T. (2006). Plasticity in the adult language system: A longitudinal electrophysiological study on 2nd language learning. *Neuroimage*, 33, 774-783. [SCI 2006=5.559]
44. Halder, P., Brem, S., Bucher, K., Boujraf, S., Summers, P., Dietrich, T., Kollias, S. S., Martin, E., & **Brandeis, D.** (2007). Electrophysiological and hemodynamic evidence for late maturation of hand force control under visual feedback. *Human Brain Mapping*, 28, 69-84. [SCI 2007=6.151]
45. Mandelkow, H., Halder, P., **Brandeis, D.**, Soellinger, M., de Zanche, N., & Boesiger, P. (2007). Heart beats Brain: The problem of detecting alpha waves by neuronal current imaging in joint EEG-MRI experiments. *Neuroimage*, 37(1), 149-163 [SCI 2007=5.457]
46. Drechsler, R., Straub, M., Döhnert, M., Heinrich, H., Steinhausen, H. C., & **Brandeis, D.** (2007). Controlled evaluation of a neurofeedback training of slow cortical potentials in children with Attention Deficit /Hyperactivity Disorder (ADHD). *Behavioral and Brain Functions*, 3(1), 35. [SCI 2009=2.336]
47. Maurer, U., Brem, S., Bucher, K., Kranz, F., Benz, R., Steinhausen, H. C., & **Brandeis, D.** (2007). Impaired tuning of a fast occipito-temporal response for print in dyslexic children learning to read. *Brain*, 130(12), 3200-3210. [SCI 2007=8.568]
48. Albrecht, B., **Brandeis, D.**, Uebel, H., Heinrich, H., Müller, U. C., Hasselhorn, M., Steinhausen, H. C., Rothenberger, A., & Banaschewski, T. (2008). Action monitoring in boys with ADHD, their nonaffected siblings and normal controls: Evidence for an endophenotype. *Biological Psychiatry*, 64(7), 615-625. [SCI 2008=8.672]
49. Schulz, E., Maurer, U., van der Mark, S., Bucher, K., Brem, S., Martin, E., & **Brandeis, D.** (2008). Impaired semantic processing during sentence reading in children with dyslexia: combined fMRI and ERP evidence. *Neuroimage*, 41 (1) 153-168. [SCI 2008=5.694]
50. Doehnert, M.* , **Brandeis, D.***, Straub, M., Steinhausen, H. C., & Drechsler, R. (2008). Slow cortical potential neurofeedback in attention deficit hyperactivity disorder: is there neurophysiological evidence for specific effects? *Journal of Neural Transmission*, 115(10), 1445-1456. [* equal contributions, SCI 2008=2.514]
51. Brem, S., Halder, P., Bucher, K., Summers, P., Martin, E., & **Brandeis, D.** (2009). Tuning of the visual word processing system - distinct developmental ERP and fMRI effects. *Human Brain Mapping*, 30(6), 1833-1844. [SCI 2009=6.256]
52. Maurer, U., Bucher, K., Brem, S., Benz, R., Kranz, F., Schulz, E., van der Mark, S., Steinhausen, H. C., & **Brandeis, D.** (2009). Neurophysiology in preschool improves behavioral prediction of reading ability throughout primary school. *Biological Psychiatry*, 66(4), 341-8. [SCI 2009=8.926]
53. Schulz, E., Maurer, U., van der Mark, S., Bucher, K., Brem, S., Martin, E., **Brandeis, D.** (2009). Reading for meaning in dyslexic and young children: EEG and fMRI evidence for distinct neural pathways but common endpoints. *Neuropsychologia*, 47(12), 2544-2557. [SCI 2009=4.345]
54. van der Mark, S., Bucher, K., Maurer, U., Schulz, E., Brem, S., Buckelmüller, J., Kronbichler, M., Loenneker, T., Klaver, P., Martin, E., **Brandeis, D.** (2009). Dyslexia in Children: Dysfunction of Specialization within the Visual Word-Form (VWF) System. *Neuroimage*, 47(4), 1940-9. [SCI 2009=5.739]
55. Stein, M., Federspiel, A., Koenig, T., Wirth, M., Lehmann, C., Wiest, R., Strik, W., **Brandeis, D.**, Dierks, T. (2009). Reduced frontal activation with increasing 2nd language proficiency. *Neuropsychologia*, 47(13), 2712-20. [SCI 2009=4.345]

56. McLoughlin, G., Albrecht, B., Banaschewski, T., Rothenberger, A., **Brandeis, D.**, Asherson, P., Kuntsi, J. (2009). Performance monitoring is altered in adult ADHD: a familial event-related potential investigation. *Neuropsychologia*, 47(14), 3134-42. [SCI 2009=4.345]
57. Valko, L., Doehnert, M., Müller, U. C., Schneider, G., Albrecht, B., Drechsler, R., Maechler, M., Steinhausen, H.-C., & **Brandeis, D.** (2009). Differences in neurophysiological markers of inhibitory and temporal processing deficits in children and adults with ADHD. *Journal of Psychophysiology*, 23(4), 211-223. [SCI 2009=2.488]
58. Albrecht, B., Heinrich, H., **Brandeis, D.**, Uebel, H., Yordanova, J., Kolev, V., Rothenberger, A., & Banaschewski, T. (2009). Flanker-Task in children: time-frequency analyses of response monitoring. *Journal of Psychophysiology*, 23(4), 183-190. [SCI 2009=2.488]
59. Albrecht, B., **Brandeis, D.**, Uebel, H., Heinrich, H., Heise, A., Hasselhorn, M., Rothenberger, A., Banaschewski, T. (2010). Action monitoring in children with or without a family history of ADHD - Effects of gender on an endophenotype parameter. *Neuropsychologia*, 48(4), 1171-1177. [SCI 2010=3.949]
60. Doehnert, M.*, **Brandeis, D.***, Imhof, K., Drechsler, R., & Steinhausen, H. C. (2010). Mapping attention-deficit/hyperactivity disorder (ADHD) from childhood to adolescence - no neurophysiological evidence for a developmental lag of attention but some for inhibition. *Biological Psychiatry*, 67(7), 608-616. [* equal contributions, SCI 2010=8.674]
61. Mandelkow, H., **Brandeis, D.**, & Boesiger, P. (2010). Good practices in EEG-MRI: The utility of retrospective synchronization and PCA for the removal of MRI gradient artefacts. *Neuroimage*, 49(3), 2287-2303. [SCI 2010=5.932]
62. Brem, S., Bach, S., Kucian, K., Kujala, J., Guttorm, T., Martin, E., Lyytinen, H., **Brandeis, D.***, & Richardson, U.* (2010). Brain sensitivity to print emerges when children learn letter speech sound correspondences. *Proceedings of the National Academy of Sciences of the United States of America*, 107(17), 7939-7944. [* equal senior contributions, SCI 2010=9.771]
63. Michels, L., Bucher, K., Lüchinger, R., Klaver, P., Martin, E., Jeanmonod, D., & **Brandeis, D.** (2010). Simultaneous EEG-fMRI during a working memory task: Modulations in low and high frequency bands. *PLOS One*, 5(4), e10298. [SCI 2010=4.441]
64. Bach, S., **Brandeis, D.**, Hofstetter, C., Martin, E., Richardson, U., & Brem, S. (2010). Early emergence of deviant frontal fMRI activity in poor beginning readers. *Neuroimage*, 53(2), 682-693. [SCI 2010=5.932]
65. Valko, L., Schneider, G., Doehnert, M., Müller, U. C., **Brandeis, D.**, Steinhausen, H.-C., & Drechsler, R. (2010). Time processing in children and adults with ADHD. *Journal of Neural Transmission*, 117(10), 1213-1212. [SCI 2010=2.597]
66. McLoughlin, G., Albrecht, B., Banaschewski, T., Rothenberger, A., **Brandeis, D.**, Asherson, P., & Kuntsi, J. (2010). Electrophysiological evidence for abnormal preparatory states and inhibitory processing in adult ADHD. *Behavioral and Brain Functions*, 6, 66. [SCI 2010=2.305]
67. van der Mark, S., Klaver, P., Bucher, K., Maurer, U., Schulz, E., Brem, S., Martin, E., & **Brandeis, D.** (2011). The left occipitotemporal system in reading: focal functional connectivity to the language system in controls but not in dyslexic children. *Neuroimage*, 54(3), 2426-36. [SCI 2011=5.895]
68. Maurer, U., Schulz, E., Brem, S., van der Mark, S., Bucher, K., Martin, E., & **Brandeis, D.** (2011). The development of print tuning in children with dyslexia: evidence from longitudinal ERP data supported by fMRI. *Neuroimage*, 57(3), 714-22. [SCI 2011=5.895]
69. Michels, L., Bucher, K., Brem, S., Halder, P., Lüchinger, R., Liechti, M., Martin, E., Jeanmonod, D., & **Brandeis, D.** (2011). Does greater low frequency EEG activity in normal

- immaturity and in children with epilepsy arise in the same neuronal network? *Brain Topography*, 24(1), 78-89. [SCI 2011=3.455]
70. Lüchinger, R., Michels, L., Martin, E., & **Brandeis, D.** (2011). EEG-BOLD correlations during (post-)adolescent brain maturation. *Neuroimage*, 56(3), 1493-1505. [SCI 2011=5.895]
71. McLoughlin, G., Asherson, P., Albrecht, B., Banaschewski, T., Rothenberger, A., **Brandeis, D.**, & Kuntsi, J. (2011). Cognitive-electrophysiological indices of attentional and inhibitory processing in adults with ADHD: familial effects. *Behavioral and Brain Functions*, 7, 26. [SCI 2011=2.127]
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Grants

Principal investigator (PI) in several projects or workpackages on ADHD and dyslexia with the Swiss National Science Foundation (SNSF), BMBF, and the University Research Program “Integrative Human Physiology”.

Co- investigator (CI) in several projects on development, plasticity, ADHD and dyslexia with the SNSF, National Competence Centers, DFG, BMBF and EU (FP6 , COST)

A. Grants, past 5 years, completed

2013 – 2018: EU FP7

Aggressotype: Aggression subtyping for improved insight and treatment innovation in paediatric psychiatric disorders, WP8: Biofeedback treatment of arousal in impulsive and instrumental aggression
(Mannheim and Zurich, WP-leader with T. Banaschewski, CIMH Mannheim, PI B. Franke, Nijmegen)

2014 – 2019: EU FP7

MATRICES: Multidisciplinary Approaches to Translational Research in Conduct Syndromes
(Mannheim and Zurich, WP-leader with T. Banaschewski, CIMH Mannheim, PI J. Glennon, Nijmegen)

2017– 2019: EU Horizon 2020/ Mensia

Newrofeed: Personalized at-home neurofeedback compared with long-acting methylphenidate in an european noninferiority randomized trial in children with ADHD
(PI D. Purper-Ouakil)

B. Grants, current

2015 – 2023: BMBF

ESCALife: Evidence-based, Stepped Care of ADHD along the life-span, ESCABrain: Evidence-based, stepped-care in ADHD: Predicting treatment response from brain structure and function
(WP-leader with PI T. Banaschewski, CIMH Mannheim)