

Key facts: (8.7.2020)

(Peer-reviewed, English) Publications: >95

Citations: >10.057

h-Index: 46

Manuel SCHABUS

Complete list of publications

Publications and Presentations

* Contributed
equally.

Manuscripts (in chronological order)

Note: Impact factors correspond to "ISI Web of Knowledge 5-year impact factors"

Preprints – non-peer reviewed

Hahn, M.A., Bothe, K., Heib, D. P. J., Schabus, M., Helfrich, R. F., & Hoedlmoser, K. (2021). Slow oscillation-spindle coupling strength predicts real-life gross-motor learning in adolescents and adults. *bioRxiv* 2021.01.21.427606; DOI: <https://doi.org/10.1101/2021.01.21.427606>

Schabus, M., & Eigl, E. (2021). "Now it's your turn to speak up!" - Burdens and Psychosocial Consequences of the COVID-19 pandemic for Austrian Children and Adolescents. *OSF Preprints*. DOI : <https://doi.org/10.31219/osf.io/zae52>

Schabus, M., & Eigl, E. (2021). Survey on "Knowledge and Attitudes Regarding the Coronavirus Pandemic" in the Austrian, German and Swiss population. *OSF Preprints*. DOI : <https://doi.org/10.31219/osf.io/35sa6>

Schabus, M., & Eigl, E.-S. (2021). Umfrage zu Belastungen, Einstellungen und Wissen zur Corona-Pandemie. *ÖBVP News, Juli 2021*, 8-9.

Angerer, M., Pichler, G., Angerer, B., Scarpatetti, M., Schabus, M., & Blume, C. (2020). From Dawn to Dusk – Mimicking Natural Daylight Exposure Improves Circadian Rhythm Entrainment in Patients with Severe Brain Injury. *OSF Preprints*. DOI: <https://doi.org/10.31219/osf.io/vk2d6>

Blume, C., & Schabus, M. (2019). Sentinel or rather standby? Regardless of terminology, information processing continues during sleep. *OSF Preprints*. DOI : <https://doi.org/10.31219/osf.io/bq8hr>

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Florea, C., Topalidis, P., Hauser, T., Angerer, M., Kurapov, A., Alberto Beltran Leon, C., Soares Brandão, D., & Schabus, M. (2021). Sleep during COVID-19 lockdown: A cross-cultural study investigating job system relevance. *Biochemical Pharmacology*, 191, [114463]. DOI : <https://doi.org/10.1016/j.bcp.2021.114463>

Schabus, M., & Eigl, E. (2021). „Jetzt Sprichst Du!“: Belastungen und psychosoziale Folgen der Coronapandemie für österreichische Kinder und Jugendliche. *Pädiatrie und Pädologie*, 56(4), 170-177. DOI: <https://doi.org/10.1007/s00608-021-00909-2>

Topalidis, P., Florea, C., Eigl, E.-S., Kurapov, A., Beltran Leon, C. A., & Schabus, M. (2021). Evaluation of a Low-Cost Commercial Actigraph and Its Potential Use in Detecting Cultural Variations in Physical Activity and Sleep. *Sensors*, 21(11), [3774]. DOI : <https://doi.org/10.3390/s21113774>

Werner, G. G., Schabus, M., Blechert, J., & Wilhelm, F. H. (2021). Differential Effects of REM Sleep on Emotional Processing: Initial Evidence for Increased Short-term Emotional Responses and Reduced Long-term Intrusive Memories. *Behavioral Sleep Medicine*, 19(1), 83-98. DOI : <https://doi.org/10.1080/15402002.2020.1713134>

Wielek, T., Blume, C., Wislowska, M., Del Giudice, R., & Schabus, M. (2021). Decoding Brain Responses to Names and Voices across Different Vigilance States. *Sensors*, 21(10), [3393]. DOI : <https://doi.org/10.3390/s21103393>

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Angerer, M., Schabus, M., Raml, M., Pichler, G., Kunz, A. B., Scarpatetti, M., Trinkla, E., & Blume, C. (2020). Actigraphy in brain-injured patients - A valid measurement for assessing circadian rhythms? *BMC Medicine*, 18(1), [106]. DOI: <https://doi.org/10.1186/s12916-020-01569-y>

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Blume, C., & Schabus, M. (2020). Perspective: Daylight Saving Time - An Advocacy for a Balanced View and against Fanning Fear. *Clocks & Sleep*, 2(1), 19-25. DOI: <https://doi.org/10.3390/clockssleep2010003>

Hahn, M., Heib, D., Schabus, M., Hoedlmoser, K., & Helfrich, R.F. (2020). Slow oscillation-spindle coupling predicts enhanced memory formation from childhood to adolescence. *eLife*, 9, e53730, pp. 1-21. DOI: <https://doi.org/10.7554/eLife.53730>

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Lang, A., Ott, P., del Giudice, R., & Schabus, M. (2020). Memory Traces Formed in Utero—Newborns' Autonomic and Neuronal Responses to Prenatal Stimuli and the Maternal Voice. *Brain Sciences*, 10(11), [837]. DOI: <https://doi.org/10.3390/brainsci10110837>

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Ameen, M., Cheung, L. M., Hauser, T., Hahn, M., & Schabus, M. (2019). About the Accuracy and Problems of Consumer Devices in the Assessment of Sleep. *Sensors*, 19(19), [4160]. DOI : <https://doi.org/10.3390/s19194160>

Blume, C., Angerer, M., Raml, M., del Giudice, R., Santhi, N., Pichler, G., Kunz, A. B., Scarpatetti, M., Trinka, E., & Schabus, M. (2019). Healthier Rhythm, Healthier Brain? Integrity of Circadian Melatonin and Temperature Rhythms Relates to the Clinical State of Brain-Injured Patients. *European Journal of Neurology*, 26(8), 1051-1059. DOI: <https://doi.org/10.1111/ene.13935>

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Posters (presenting author underlined)

Selection of posters not otherwise yet presented or published:

2020

Schabus, M., Lang, A., Angerer, M., Florea, C., Ott, P., & Del Giudice, R. (2020). *Newborns' sleep during auditory stimulation - the role of perinatal memory and stimulus familiarity*. Poster presented at the 25th Congress of the European Sleep Research Society (ESRS) 2020, Virtual Congress, September 22nd – 24th 2020.

Schabus, M., Ott, P., Del Giudice, R., & Lang, A. (2020). *Prenatal learning and stimulus recognition in newborns using hdEEG, ECG and videography*. Poster presented at the 8th Annual Flux Virtual Congress, September 9th – 12th 2020.

2019

Schabus, M., Angerer, M., Lang, A., & Ott, P. (2019). *Are prenatally learned nursery rhymes recognized at birth? A hdEEG study*. Poster presented at the 45th Annual Meeting “Psychologie und Gehirn”, Dresden, Deutschland, June 20th – 22nd 2019.

Hauser, T., Gruber, W. R., Heib, D. P. J., Winkler, T., & Schabus, M. (2019). *”Wie schläft Österreich 2019?”: Online- Erhebung zu Schlafgewohnheiten und Schlafproblemen*. Poster presented at the 28th Annual Meeting of the Austrian Sleep Research Association (ASRA), Gmunden, Austria, May 2nd – 4th 2019.

2018

Schabus, M., Lang, A., del Giudice, R., Wegenkittl, S., & Ott, P. (2018). *Are prenatally learned nursery rhymes recognized at birth? A high-density EEG study*. Poster presented at the 24th Meeting of the European Sleep Research Society (ESRS), Basel, Switzerland, September 25th-28th 2018.

Lang, A., del Giudice, R., Scholle, S., & Schabus, M. (2018). *Perinatal memory and the effect of auditory stimulation on newborns sleep*. Poster presented at the 24th Meeting of the European Sleep Research Society (ESRS), Basel, Switzerland, September 25th-28th 2018.

Ameen, M., Blume, C., Heib, D.P.J., Del Giudice, R., & Schabus, M. (2018). *Auditory stimulation induces changes in sleep microstructure*. Poster presented at Salzburg Mind-Brain Annual Meeting (SAMBA) 2018, Salzburg, Austria, 12th–13th July, 2018.

Angerer, M., Blume, C., Raml, M., Wislowska, M., & Schabus, M. (2018). *Can heart rate variability contribute to the differential diagnosis of disorders of consciousness?*. Poster presented at Salzburg Mind-Brain Annual Meeting (SAMBA) 2018, Salzburg, Austria, 12th–13th July, 2018.

Hahn, M., Joechner, A.K., Heib, D.P.J., Schabus, M., & Hödlmoser, K. (2018). *Coupled memory consolidation? Slow oscillation-spindle-coupling from childhood to adolescence*. Poster presented at Salzburg Mind-Brain Annual Meeting (SAMBA) 2018, Salzburg, Austria, 12th–13th July, 2018.

Lang, A., Del Giudice, R., & Schabus, M. (2018). *Characteristics of perinatal memory in 2- and 5-weekold infants*. Poster presented at Salzburg Mind-Brain Annual Meeting (SAMBA) 2018, Salzburg, Austria, 12th–13th July, 2018.

Richlan, F., Fernández, S., & Schabus, M. (2018). *The effects of regular sports exercise on human brain structure*. Poster presented at Salzburg Mind-Brain Annual Meeting (SAMBA) 2018, Salzburg, Austria, 12th–13th July, 2018.

Wislowska, M., Blume, C., Michalak, A., Weisz, N., & Schabus, M. (2018). *Even the sleeping brain discerns relevant information*. Poster presented at Salzburg Mind-Brain Annual Meeting (SAMBA) 2018, Salzburg, Austria, 12th–13th July, 2018.

Blume C., Angerer M., Raml M., del Giudice R., Santhi N., Pichler G., Kunz A.B., Trinka E. & Schabus M. (2018). *Body Rhythms in Concert? Integrity of Circadian Rhythms is Related to the State of Brain-Injured Patients*. Poster presented at the 27th Annual Meeting of the Austrian Sleep Research Association (ASRA), Fuschl am See, Austria, April 6th-7th 2018.

Hahn, M., Joechner, A., Heib, D. P. J., Gruber, G., Schabus, M., & Hoedlmoser, K. (2018). *Development of sleep spindles and slow waves predicts sleep-dependent memory consolidation enhancement across adolescence*. Poster presented at the 27th Annual Meeting of the Austrian Sleep Research Association (ASRA), Fuschl am See, Austria, April 6th-7th 2018.

Lang, A., del Giudice, R., Scholle, S., & Schabus, M. (2018). *Perinatal memory and the distribution of sleep/wake states in newborns*. Poster presented at the 27th Annual Meeting of the Austrian Sleep Research Association (ASRA), Fuschl am See, Austria, April 6th-7th 2018.

Wislowska, M., Blume, C. & Schabus, M. (2018). *Processing of relevant auditory stimuli during sleep*. Poster presented at 27th Annual Meeting of the Austrian Sleep Research Association (ASRA), Fuschl am See, Austria, April 6th – 7th 2018.

2017

Blume, C., del Giudice, R., Wislowska, M., Heib, D. P. J., & Schabus, M. (2017). *Continued*

Evaluation of Stimulus Familiarity during Naturally Occurring Unconsciousness. Poster presented at the 13th International Conference on Cognitive Neuroscience (ICON). Amsterdam, The Netherlands August 5th-8th 2017.

Hahn, M., Joechner, A., Heib, D. P. J., Schabus, M., & Hoedlmoser, K. (2017). *Developmental changes of slow wave up-states relate to increased cognitive abilities across adolescence*. Poster presented at the 13th International Conference on Cognitive Neuroscience (ICON). Amsterdam, The Netherlands August 5th-8th 2017.

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del Giudice, R., Wislowska, M., Lang, A., Lithari, C., Weisz, N., Calvet, C., Ott, P., & Schabus, M. (2017). *Neurophysiological correlates of prenatal learning and early bonding*. Poster presented at the Salzburg Mind-Brain Annual Meeting (SAMBA) 2017. Salzburg, Austria, July 13th - 14th 2017.

Hahn, M., Joechner, A., Heib, D.P.J., Schabus, M., & Hoedlmoser, K. (2017). *Developmental changes of slow wave activity during sleep reflect changes in cognitive abilities across puberty*. Poster presented at the Salzburg Mind-Brain Annual Meeting (SAMBA) 2017. Salzburg, Austria, July 13th - 14th 2017.

van Schalkwijk, F. J., Sauter, C., Hoedlmoser, K., Heib, D. P. J., Hauser, T., Klösch, G., Moser, D., Gruber, G., Anderer, P., Saletu, B., Parapatics, S., Weber-Bischof, B., Bauer, H., Fischmeister, F., Zeitlhofer, J., & Schabus, M. (2017). *Short and long-term effects of full-night sleep on procedural memory performance*. Poster presented at the Salzburg Mind-Brain Annual Meeting (SAMBA) 2017. Salzburg, Austria, July 13th - 14th 2017.

Wislowska, M., Veale, T., Schabus, M., & Bauer, M. (2017). *Dynamics of brain oscillations during Bayesian perception*. Poster presented at the Salzburg Mind-Brain Annual Meeting (SAMBA) 2017. Salzburg, Austria, July 13th - 14th 2017.

Schabus, M., Körner, D., Gnjezda, M.-T., Heib, D.P., Blume, C., & Hödlmoser, K. (2017). *On the inconsistency of sleep effects on declarative and procedural memory consolidation - an EEG study across multiple sleep laboratory nights*. Poster presented at the SLEEP 2017. Boston, USA, June 3rd - 7th 2017.

Schabus, M., Körner, D., Gnjezda, M.-T., Heib, D.P.J., Blume, C., Hödlmoser, K., & Freunberger, R. (2017). *Consistency of sleep effects on declarative and procedural memory performance in insomnia patients and 'insomnia misperceivers'*. Poster presented at the scientific meeting "The offline brain: understanding memory consolidation and reconsolidation" of The Royal Society, Buckinghamshire, United Kingdom, January 30th – 31st 2017

2016

Schabus, M., del Giudice, R., Wislowska, M., Lang, A., Lithari, C., Weisz, N., & Calvet, C. (2016). *Processing of nursery rhymes in the newborn brain – A hdEEG study*. Poster presented at the 20th International Conference on Biomagnetism (BIOMAG2016), Seoul, South Korea, October 1st – 6th 2016

Blume, C., del Giudice, R., Wislowska, M., Heib D. P. J., Hoedlmoser, K., Schabus, M. (2016). *Privileged processing of emotional and self-relevant stimuli persists in unconscious N2 sleep*. Poster

presented at the 23rd Meeting of the European Sleep Research Society (ESRS), Bologna, Italy, September 13th-16th 2016.

Heib, D.P.J., Bäuml, K.-H.T., & Schabus, M. (2016). *The impact of memory strength on sleep-associated memory consolidation*. Poster presented at the 23rd Meeting of the European Sleep Research Society (ESRS), Bologna, Italy, September 13th-16th 2016.

Hoedlmoser, K., Roell, J., Joechner, A., Hahn, M., Heib, D.P.J., Gruber, G., Sadeh, A., Peigneux, P., & Schabus, M. (2016). *The impact of developmental changes of sleep spindles on declarative learning and general cognitive abilities - a longitudinal approach*. Poster presented at the 23rd Meeting of the European Sleep Research Society (ESRS), Bologna, Italy, September 13th-16th 2016.

van Schalkwijk, F.J., Heib, D.P.J., Hödlmoser, K., Muto, V., Klösch, G., Anderer, P., Zeitlhofer, J., & Schabus, M. (2016). *The effect of napping on the consolidation of explicit and implicit information*. Poster presented at the 23rd Meeting of the European Sleep Research Society (ESRS), Bologna, Italy, September 13th-16th 2016.

Wielek, T., Lechinger, J., Ott, P., Wegenkittl, S., & Schabus, M. (2016). *EEG complexity as an indication for sleep-wake patterns in patients with disorders of consciousness*. Poster presented at the 23rd Meeting of the European Sleep Research Society (ESRS), Bologna, Italy, September 13th-16th 2016.

Schabus, M., Wielek, T., Ott, P., Lechinger, J. & Wegenkittl, S. (2016). *Variations of EEG complexity across the 24hr-cycle in patients with disorders of consciousness*. Poster presented at the 18th IOP World Congress, Havana, Cuba, August 31st – September, 4th 2016

Schabus, M., Wislowska, M., del Giudice, R., Lechinger, J., Chwala-Schlegel, N., Pitiot, A., Heib, D., Chinchilla, M., & Machado, C. (2016). *Circadian fluctuations of EEG and graphoelements during sleep in patients with disorders of consciousness*. Poster presented at the 18th IOP World Congress, Havana, Cuba, August 31st – September, 4th 2016

del Giudice, R., Wislowska, M., Lithari, C., Lang, A., Calvet, C., Weisz, N., Schabus, M. (2016). *Oscillatory brain activity to prenatally learned nursery rhymes in two and five weeks new-born*. Poster presented at the 20th annual meeting of the Association for the Scientific Study of Consciousness (ASSC), Buenos Aires, Argentina, 15th – 18th June 2016.

Schabus, M., Wielek, T., Wislowska, M., Ott, P., Lechinger, J. & Wegenkittl, S. (2016). *Day-night variations of EEG complexity in patients with disorders of consciousness*. Poster presented at the 20th annual meeting of the Association for the Scientific Study of Consciousness (ASSC), Buenos Aires, Argentina, June 15th – 18th 2016

Wislowska, M., del Giudice, R., Lechinger, J., Chwala-Schlegel, N., Pitiot, A., Heib, D. & Schabus, M. (2016). *Circadian Fluctuations of Arousal in Patients with Disorders of Consciousness*. Poster presented at the 20th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), Buenos Aires, Argentina, June 15th – 18th 2016.

2015

Wielek, T., Lechinger, J., Wislowska, M., Hoedlmoser, K., Mayer, H., & Schabus, M. (2015). *Artificial neural networks combined with permutation entropy – a promising approach for sleep staging in healthy individuals and patients with DOC*. Poster presented at the 7th World Congress of the World Sleep Federation (WSF), Istanbul, Turkey, October 31st to November 3rd 2015.

Blume, C., del Giudice, R., Wislowska, M., Lechinger, J., Heib, D. P. J., Koerner, D., Gnjezda, M.-T., Hoedlmoser, K., Schabus, M. (2015). *Emotion matters! Effects of emotional prosody on stimulus processing across consciousness states*. Poster presented at the 19th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), Paris, France, July 7th to 10th 2015.

Schabus, M., del Giudice, R., Blume, C., Lechinger, J., Wislowska, M., Gnjezda, M.-T. & Hoedlmoser, K. (2015). *The voice of anger: Emotional prosody across the consciousness continuum*.

Poster presented at the 19th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), Paris, France, July 7th – 10th 2015.

Schabus, M., del Giudice, R., Lechinger, J., Wislowska, M., Heib, D.J.P., & Hoedlmoser, K. (2015). *EEG responses to stimuli of personal relevance in healthy controls and disorder of consciousness patients*. Poster presented at the 19th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), Paris, France, July 7th to 10th 2015.

Wislowska, M., del Giudice, R., Lechinger, J., Chwala-Schlegel, N., Laureys, S. & Schabus, M. (2015). *Circadian Changes of EEG Brain Activity in Patients with Disorders of Consciousness*. Poster presented at the 19th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), Paris, France, July 7th – 10th 2015

2014

Heib, D.P.J., Luketina, N., Holterman, C., Bäuml, K.-H.T., & Schabus, M. (2014). The role of memory strength for sleep-associated memory consolidation. Poster presented at the 22nd Congress of the European Sleep Research Society (ESRS), *Tallinn, Estonia, September 16th – 20th 2014*.

Schabus, M., Lechinger, J., Jiang, H., Heib, D., Wislowska, M., & Jensen, O. (2014). Source reconstruction of slow and fast sleep spindles using a frequency-domain beamformer approach - A MEG/EEG study. Paper submitted for the 19th International Conference on Biomagnetism (BIOMAG), *Halifax, Canada, August 24th -26th, 2014*.

Schabus, M., et al. (2014). Sleep-dependent memory consolidation and neurofeedback in insomnia - A long-term study. Poster presented at the 12th International Conference on Cognitive Neuroscience (ICON), *Brisbane, Australia, 27th – 31st of July 2014*.

Blume, C., Lechinger, J., del Giudice, R., Wislowska, M. & Schabus, M. (2014). Are you mocking me!? EEG responses during an animated “Theory of Mind” paradigm. Poster presented at the 20th Meeting of the Organisation for Human Brain Mapping (OHBM), *Hamburg, Germany, 8th – 12th June 2014*.

2013

Del Giudice, R., Lechinger, J., Wislowska, M., Heib, D.P.J., Koerner, D., Hoedlmoser, K., & Schabus, M. (2013). Can we tackle attention in disorders of consciousness? Validation of a new paradigm to assess patients with altered states of consciousness. Poster presented at the Rovereto Attention Workshop (RAW 2013), *Rovereto, Italy, October 24th-26th, 2013*.

Wislowska, M., Heib, D. P. J., Griessenberger, H., Hoedlmoser, K., Lechinger, J. & Schabus, M. (2013). Age Matters! Sleep-Dependent Memory Consolidation in Disturbed Sleep. Poster presented at the 5th Dubrovnik Conference on Cognitive Science (DuCog), *Dubrovnik, Croatia, May 16th - 19th 2013*.

Schabus, M., Lechinger, J., Bothe, K., Pichler, G., Michitsch, G., & Donis, J. (2013). Spectral EEG at rest predicts behavioural appearance in Disorders of Consciousness. Paper presented at the 17th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), *San Diego, USA, July 12th-15th 2013*.

Gosseries, O., Vanhauzenhuysse, A., Bruno, MA., Phan-Ba, R., Phillips, C., Boveroux, P., Bonhomme, V., LeDoux, D., Bricchant, J.F., Schabus, M., Balteau, E., Degueldre, C., Luxen, A., Maquet, P., Laureys, S., & Boly, M. (2013). Interaction between spontaneous fluctuation and auditory evoked activity during wakefulness and propofol-induced loss of consciousness. Paper presented at the 17th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), *San Diego, USA, July 12th-15th 2013*.

2012

Werner, G. & Schabus, M. (2012). Bindungsstile und Schlafverhalten (engl., *Attachment and sleeping behavior*). Poster presented at the 10th Annual Meeting of the Austrian Society for Psychology, Graz, Austria, April 12th to 14th 2012.

File, N., Schabus, M., Sauer, J., & Keil, W. W. (2012). Symptom- und Persönlichkeitsveränderungen durch klientenzentrierte Psychotherapie. Poster presented at the Workshop „Psychotherapieforschung“ (psychotherapy research) of „Gesundheit Österreich“ (BMG Österreich),

Vienna, Austria, November 27th 2012.

Schabus, M., File, N., Sauer, J., & Keil, W. W. (2012). Demographische Erhebung der ÖGWG. Poster presented at the Workshop „Psychotherapieforschung“ (psychotherapy research) of „Gesundheit Österreich“ (BMG Österreich), *Vienna, Austria, November 27th 2012.*

Vanhauzenhuysse, A., Boveroux, P., Bruno, M.-A., Noirhomme, Q., Soddu, A., Gómez, F., Bahri M. A., Babo-Rebelo, M., Lauwick, S., Degueldre, C., Plenevaux, A., Schabus, M., Ledoux, D., Bonhomme, V., Bricchant J.-F., Laureys S., & Boly, M. (2012). Loss of self-referential stimuli discrimination during propofol-induced loss of consciousness. Poster presented at the 18th Annual Meeting of the Organization for Human Brain Mapping, *Beijing, China, June 10th to 14th 2012.*

Gosseries, O., Vanhauzenhuysse, A., Bruno, M.-A., Phan-Ba, R., Phillips, C., Boveroux, P., Bonhomme, V., Ledoux, D., Bricchant, J.-F., Lauwick, S., Schabus, M., Baiteau, E., Degueldre, C., Luxen, A., Maquet, P., Laureys, S., & Boly, M. (2012). Consciousness-dependent interplay between spontaneous and stimulus evoked activity: an EEG-fMRI study. Poster presented at the 18th Annual Meeting of the Organization for Human Brain Mapping, *Beijing, China, June 10th to 14th 2012.*

Hödlmoser, K., Bothe, K., Möckel, T., Peigneux, P., Klimesch, W., & Schabus, M. (2012). Sleep and real-life declarative learning. Poster presented at the 18th Annual Meeting of the Organization for Human Brain Mapping, *Beijing, China, June 10th to 14th 2012.*

Griessenberger, H., Heib, D., Petzka, M., Luketina, N., Hoedlmoser, K., & Schabus, M. (2012). Sleep dependent motor skill learning in primary insomnia and good sleeper controls. Paper presented at the 10th Annual Meeting of the Austrian Society for Psychology (ÖGP), *Karl-Franzens University, Graz, Austria, April 12th to 14th 2012.*

Hoedlmoser, K., Roell, J., Peigneux, P., Klimesch, W., & Schabus, M. (2012). Sleep spindles and its relation to cognitive performance in children. Paper presented at the 10th Annual Meeting of the Austrian Society for Psychology (ÖGP), *Karl-Franzens University, Graz, Austria, April 12th to 14th 2012.*

Werner, G., & Schabus, M. (2012). Über den Zusammenhang von Bindungsstilen und Schlafstörungen. Paper presented at the 10th Annual Meeting of the Austrian Society for Psychology (ÖGP), *Karl-Franzens University, Graz, Austria, April 12th to 14th 2012.*

2011

Griessenberger, H., Hoedlmoser, K., Sampathkumar, A., Lechinger, J., Klimesch, W. & Schabus, M. (2011). Consolidation of temporal order in episodic memories. Paper presented at the XI International Conference on Cognitive Neuroscience (ICON), *Palma de Mallorca, Spain, 25-29th of September 2011.*

Heib, D., Hoedlmoser, K., Griessenberger, H., Klimesch, W., & Schabus, M. (2011). The role of sleep slow oscillations in the process of declarative memory consolidation as well as their relation to general cognitive abilities. Poster session presented at the XI International Conference on Cognitive Neuroscience (ICON), *Palma de Mallorca, Spain, 25-29th of September 2011.*

Hoedlmoser, K., Roell, J., Peigneux, P., Klimesch, W., & Schabus, M. (2011). Sleep spindles and emotional intelligence in school aged children. Paper presented at the 17th Annual Meeting of the Organization of Human Brain Mapping (HBM), *Quebec City, Canada, 26-30th of June 2011.*

Schabus, M., Hoedlmoser, K., Griessenberger, H., Heib, D., Pawlizki, A., & Klimesch, W. (2011). Instrumental conditioning of 12-15Hz brain oscillations enhances EEG frequencies and sleep quality. Paper presented at the 17th Annual Meeting of the Organization of Human Brain Mapping (HBM), *Quebec City, Canada, 26-30th of June 2011.*

Heib, D., Griessenberger, H., & Schabus, M. (2011). ZEO, ein revolutionäres Low-Budget scoring system? Paper presented at the Congress of the Austrian Sleep Research Association (ASRA), *Schloß Seggau, Austria, 13th -15th of May 2011.*

2010

Schabus, M., Cologan, V., Weilhart, K., Chwala, N., Pelikan, C., Hoedlmoser, K., Klimesch, W., Maquet, P., & Laureys, S. (2010). Sleep in Disorders of Consciousness. Paper presented at the 20th Congress of the European Sleep Research Society (ESRS), *Lisbon, Portugal, September 14th -18th 2010.*

Schabus, M., Fellingner, R., Schnakers, C., Perrin, F., Freunberger, R., Klimesch, W., & Laureys, S.

(2010). Distinct oscillatory brain activity in disorders of consciousness. Paper presented at the 14th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), *Toronto, Canada, June 24th-27th 2010*.

Schabus, M., Hoedlmoser, K., Griessenberger, H., Hoffmann, A., & Klimesch, W. (2010). Sleep-dependent consolidation of temporal order in episodic memories. Paper presented at the 20th Congress of the European Sleep Research Society (ESRS), *Lisbon, Portugal, September 14th -18th 2010*.

2009

Dang-Vu, T., Schabus, M., Desseilles, M., & Maquet, P. (2009). Non-REM sleep oscillations: an EEG/fMRI study. Paper presented at the Réunion d'Hiver de la Société de Neurophysiologie Clinique de Langue Française: "Cerebral rhythms", Paris, France, 26th -27th January, 2009.

2008

Anderer, P., Gruber, G., Sauter, C., Kloesch, G., Schabus, M., Klimesch, W., Saletu, B., & Zeitlhofer, J. (2008). Low-Resolution Brain Electromagnetic Tomography (LORETA) reveals off-line neuronal re-processing of motor learning during post-training REM sleep. Paper presented at the 19th Congress of the European Sleep Research Society (ESRS), Glasgow, UK, 9th -13th September, 2008

Boly, M., Perlberg, V., Marrelec, G., Dang-Vu, T., Schabus, M., Pelegri, M., Vanhaudenhuyse, A., Albouy, G., Balteau, E., Degueldre, C., Phillips, C., Sterpenich, V., Vandewalle, G., Luxen, A., Laureys, S., Benali, H., & Maquet, P. (2008). Fragmentation of fMRI resting state networks in deep non Rapid Eye Movement (REM) sleep as compared to wakefulness as revealed by a group probabilistic ICA analysis in healthy volunteers. Poster presented at the 15th Meeting of the Cognitive Neuroscience Society, San Francisco, USA, April 12th -15th 2008.

Dang-Vu, T., Schabus, M., Boly, M., Bonjean, M., Darsaud, A., Desseilles, M., Phillips, C., & Maquet, P. (2008). Processing of sounds during sleep spindles in humans: an EEG/fMRI study of auditory stimulation in non-REM sleep. Paper presented at the 19th Congress of the European Sleep Research Society (ESRS), Glasgow, UK, 9th -13th September, 2008.

Darsaud, A., Dehon, H., Sterpenich, V., Dang-Vu, T., Desseilles, M., Gais, S., Matarazzo, L., Schabus, M., Vandewalle, G., Luxen, A., Collette, F., & Maquet, P. (2008). Cerebral correlates of false memories after sleep and sleep deprivation. Poster presented at the 15th Meeting of the Cognitive Neuroscience Society, San Francisco, USA, April 12th -15th 2008.

Hoedlmoser, K., Schabus, M., Griessenberger, H., & Klimesch, W. (2008). Event-related P2 component during a psychomotor vigilance task indicates sleep pressure. Poster presented at the 19th Congress of the European Sleep Research Society (ESRS), Glasgow, UK, 9th -13th September, 2008.

Maquet, P., Dang-Vu, T., & Schabus, M. (2008). Cerebral correlates of non REM sleep oscillations, as assessed by EEG/fMRI. Paper presented at the 19th Congress of the European Sleep Research Society (ESRS), Glasgow, UK, 9th -13th September, 2008.

Schabus, M., Dang-Vu, T., Boly, M., Darsaud, A., Albouy, G., Sterpenich, V., Phillips, C., & Maquet, P. (2008). Processing of sounds during slow wave sleep in humans: an EEG/fMRI study of auditory stimulation in non-REM sleep. Poster presented at the 19th Congress of the European Sleep Research Society (ESRS), Glasgow, UK, 9th -13th September, 2008.

Schmidt, C., Collette, F., Sterpenich, V., Vandewalle, G., Tinguely, G., Darsaud, A., Gais, S., Schabus, M., Desseilles, M., Dang Vu, T., Salmon, E., Luxen, A., Maquet, P., Cajochen, C., & Peigneux, P. (2008). Chronotype-dependent performance modulation according to time of day : a functional neuroimaging approach. Poster presented at the 15th Meeting of the Cognitive Neuroscience Society, San Francisco, USA, April 12th -15th 2008.

Rodenbeck, A., Schabus, M., Hasselhorn, M., Huether, G., Mavridou, K., Pilz, J., Schneider, B., & Wiater, A., (2008). Effects of parental evening interventions on stress, sleep, and school performance. Paper presented at the 19th Congress of the European Sleep Research Society (ESRS), Glasgow, UK, 9th -13th September, 2008.

2007

Perrin, F., Schnakers, C., Schabus, M., & Laureys, S. Sensory discrimination and awareness in patients with severe brain damage. Association for the Scientific Study of Consciousness, 11th Annual Meeting, Las Vegas, USA, 22nd - 25th June 2007.

2006

Hödlmoser, K., Stadler, W., Schabus, M., Anderer, P., Sauter, C., Klösch, G., Klimesch, W., & Zeitlhofer, J. (2006). EEG theta power during sleep and memory performance. Paper presented at the 18th Congress of the European-Sleep-Research-Society, Innsbruck, Austria, 12th - 16th September 2006.

Peigneux, P., Schabus, M., Schmitz, R., Luxen, A., & Maquet, P. (2006). ERP correlates of sleep-dependent memory processing in the probabilistic serial reaction time task. Paper presented at the 18th Congress of the European-Sleep-Research-Society, Innsbruck, Austria, 12th - 16th September 2006.

Sauter, C., Moser, D.C., Anderer, P., Klösch, G., Hödlmoser, K., Stadler, W., Schabus, M., & Zeitlhofer, J. (2006). The effect of napping on implicit and explicit memory consolidation. Paper presented at the 18th Congress of the European-Sleep-Research-Society, Innsbruck, Austria, 12th - 16th September 2006.

Stadler, W., Schabus, M., Hödlmoser, K., Sauter, C., Anderer, P., Gruber, G., Klimesch, W., & Zeitlhofer, J. (2006). Brain activity related to memory retrieval changes after overnight sleep: A study of EEG theta frequency. Paper presented at the 18th Congress of the European-Sleep-Research-Society, Innsbruck, Austria, 12th - 16th September 2006.

2005

Anderer, P., Gruber, G., Parapatits, S., Saletu, B., Schabus, M., Klimesch, W., Klösch, G., Sauter, C., Miazhynskaia, T., Wörtz, M., & Zeitlhofer, J. (2005). Low-resolution brain electromagnetic tomography reveals cortical reactivation during spindle episodes in a night following paired word associate learning. *Sleep Medicine*, 6 (Suppl. 2), S109-S110.

Sauter, C., Moser, D., Klösch, G., Schabus, M., Hödlmoser, K., Anderer, P., Klimesch W., & Zeitlhofer, J. (2005). The effect of napping on an implicit memory task. *Sleep Medicine*, 6 (Suppl. 2), S112.

Stadler, W., Schabus, M., Hödlmoser, K., Gruber, G., Parapatits, S., Sauter, C., Klösch, G., Anderer, P., Klimesch W., Saletu, B., & Zeitlhofer, J. (2005). On the necessity of studying differential effects of sleep on episodic vs. semantic memory. *Sleep Medicine*, 6 (Suppl. 2), S208.

2004

Sauter, C., Klösch, G., Schabus, M., Hödlmoser, K., Anderer, P., Gruber, G., Parapatits, S., Klimesch, W., Saletu, B., & Zeitlhofer, J. (2004). Sleep improves performance in an implicit memory task. *Journal of Sleep Research*, 13 (Suppl. 1).

2003

Doppelmayr, M., Hödlmoser, K., Schabus, M., & Klimesch, W. ERD changes in different frequency bands during the performance of an intelligence task. Poster presented at the 35th General Meeting of the European Brain and Behaviour Society (EBBS), Barcelona, Spain, 17th – 20th September, 2003.

2002

Schabus, M., Klimesch, W., & Doppelmayr, M. The P1/N1 complex: Manifestation of an oscillatory process in the theta and alpha frequency range? Poster presented at the 2002 Annual CNS Meeting, San Francisco, CA, 14th-16th April, 2002.

Schabus, M., Klimesch, W., Doppelmayr, M., Yonelinas, A., Kroll, N.E.A., Lazzara, M., Röhm, D., & Gruber, W. Enhanced theta oscillations reflect conscious awareness during memory retrieval. Poster presented at the Tucson 2002 “Towards a Science of Consciousness” meeting, Tucson, AZ, 8th-12th April, 2002.

2001

Klimesch, W., Doppelmayr, M., Wimmer, H., Schabus, M., Röhm, D., Gruber, W., & Hutzler, F. (2001). Event-related band power changes in normal and dyslexic children. Poster presented at the meeting of the Cognitive Neuroscience Society, New York, 25th-28th March, 2001.

1999

Schabus, M., Crawford, H.J., Lamas, J., & Klimesch, W. Individual alpha frequency: Does hypnotic level and sex moderate? Poster presented at the 6th Meeting of the Austrian Neuroscience Association (ANA), Salzburg, 30th September - 2nd October 1999.

Oral presentations

2021

“REM sleep and processing of negative emotions“. Virtual talk at the 29th DGSM 2021, *Virtual, October 28th - 30th 2021*.

“Kognition und Zirkadianik in veränderten Bewusstseinszuständen“. Invited talk at the Jahrestagung der Österreichischen Wachkoma Gesellschaft 2021. *Graz, Austria, October 15th 2021*.

“Cognition in Altered States of Consciousness“. Keynote presentation at the 17th ANA Meeting 2021, *Salzburg, September 28th-30th 2021*.

“Minisymposium: EEG, MEG, and fMRI: hot new science in Cognitive Neuroscience“. Chair at the 17th ANA Meeting 2021, *Salzburg, September 28th-30th 2021*.

“Wie schläft Österreich? Schlafgewohnheiten und Schlafprobleme vor und während Corona“. Virtual talk at ASRA 2021, *Virtual, June 18th - 19th 2021*.

“„Jetzt Sprichst Du!“ – Belastungen und psycho-soziale Folgen der Corona-Pandemie für österreichische Kinder und Jugendliche“. Virtual talk at the Research Colloquium of the Department of Psychology/University of Salzburg, *Virtual, June 17th 2021*.

“Psychische Belastungen der Kinder und Jugendlichen in der laufenden Corona-Pandemie“. Virtual talk for the Heilpädagogische Gesellschaft Burgenland (HGÖ), *Virtual, June 7th 2021*.

“Psychische Belastungen unter der laufenden Corona Situation für Kinder- und Jugendliche“. Virtual talk for Child and Youth Advocates Austria, *Virtual, May 12th 2021*.

“Präsentation der Umfrage „JetztSprichstDu““. Virtual talk at the 25. Sitzung – Kinderrechte-Board des Bundeskanzleramts Sektion VI – Familie und Jugend, *Virtual, April 16th 2021*.

“Psychische Belastungen unter der laufenden Corona Situation für Kinder- und Jugendliche“. Invited talk at the Universitätsklinik für Kinder- und Jugendheilkunde (SALK), *Salzburg, April 15th 2021*.

“"Bewusstsein" und Informationsverarbeitung in "veränderten Bewusstseinszuständen"“. Virtual talk at the ÖGWG - Regionalzentrum Wien, NÖ, Bgld., *Virtual, April 14th 2021*.

2020

“Was kann sich (nur) im Schlaf ereignen“. Virtual talk at the Atelier Gespräch „Die Dinge beseelen – Der Nussknacker“ *Virtual, December 7th 2020*.

“Sleep during COVID-19 lockdown: a cross-cultural pilot study“. Virtual talk at the Research Colloquium of the Department of Psychology/University of Salzburg, *Virtual, November 26th 2020*.

“Be better in bed and use the power of the digital world“. Virtual keynote at the IMPULS Dialog - Sanofi-Aventis GmbH Österreich, *Virtual, October 15th 2020*.

“On the importance of sleep and the impact of sleep disturbances“. Virtual talk for the doctoral college of the „Research Center for Molecular Medicine of the Austrian Academy of Sciences“ *Virtual, October 15th 2020*.

“Fetal programming & Sleep in Newborns - A hEEG study“. Talk at 4th Wintersymposium 2020 on "Sleep, Cognition and Consciousness". *Werfenweng, Austria, February 27th-29th 2020*.

2019

“Fetal programming & Sleep in Newborns“. Invited talk at the Neuroscience Day 2019. *Salzburg, Austria, September 29th 2019*.

„Wie schläft Österreich (besser)?“. Talk at the Panorama/Uni, *Salzburg, Austria, October 21st 2019*.

„Unbewusste und bewusste Gedächtnisverarbeitung im menschlichen Gehirn“. Talk at the PRO SCIENTIA Summer Academy 2019: Memory, *Ritten, Bozen, Italien, September 2nd – September 8th 2019*.

„Scientific assessment of consumer devices for sleep monitoring“. Talk at the 41st International

Engineering in Medicine and Biology Conference, *Berlin, Germany, July 23rd – June 27th 2019.*

„Wie schläft Österreich (besser)?“. Talk at the University of Salzburg, *Salzburg, Austria, July 3rd 2019.*

„Die Digitalisierung der Gesundheit: Fluch oder Segen“. Chair at the Symposium “The digitalization of health: Curse or blessing?”. *Salzburg, Austria, June 14th 2019.*

„Entraining the brain to improve sleep and memory: 12-15Hz Neurofeedback for insomnia and healthy sleepers“. Talk at the 11. Workshopkongress für Klinische Psychologie und Psychotherapie und 37. Symposium der Fachgruppe Klinische Psychologie und Psychotherapie der DGPs, *Erlangen, Germany, May 30th – June 1st 2019.*

„Wie schläft Österreich (besser)?“. Talk at the University of Salzburg, *Salzburg, Austria, May 23rd 2019.*

„Schlaf und Kognition“. Chair at the 28th Annual Meeting of the Austrian Sleep Research Association (ASRA), *Gmunden, Austria, May 2nd – 4th 2019.*

„Restless Legs“. Invited talk at the University Hospital Salzburg (SALK), *Salzburg, Austria, April 11th 2019.*

2018

„Actigraphy in DOC Patients – A Valid Measurement?“. Talk at the VIII International Symposium on Brain Death and Disorders of Consciousness (Koma Brain Death 2018), *Havana, Cuba, December 4th - 7th 2018.*

„Heart rate variability and its circadian variation in patients with disorders of consciousness: A diagnostic tool?“. Talk at the VIII International Symposium on Brain Death and Disorders of Consciousness (Koma Brain Death 2018), *Havana, Cuba, December 4th - 7th 2018.*

„Wirksamer als Placebo? Eine randomisierte kontrollierte Neurofeedback-Studie zum Schlaf“. Invited Speaker at the 18th Annual Meeting of the German Society of Biofeedback eV (DGBfb), *Regensburg, Germany, October 19th - 20th 2018.*

„EEG-Neurofeedback bei Patienten mit Insomnie - eine randomisierte kontrollierte Studie“. Talk at the 26th Annual Meeting of the ‘German Society for Sleep Research and Sleep Medicine’ (DGSM), *Nürnberg, Germany, October 11th - 13th 2018.*

„Wie schläft Österreich?“ – Online-Erhebung zu Schlafgewohnheiten und Schlafproblemen“. Talk at the 26th Annual Meeting of the ‘German Society for Sleep Research and Sleep Medicine’ (DGSM), *Nürnberg, Germany, October 11th - 13th 2018.*

“Information processing in altered states of consciousness using MEG & EEG“. Invited talk at the Neuroscience Day 2018. *Salzburg, Austria, September 20th 2018.*

“Sleep spindles and memory consolidation“. Talk at the Sleep and Memory Reactivation Meeting at the Princeton Neuroscience Institute (PNI), *Princeton, USA, August 31st 2018.*

“Continued Evaluation of Environmental Stimuli during Sleep“. Talk at the 21st International Conference on Biomagnetism (BIOMAG2018). *Philadelphia, USA, August 26th – 30th 2018.*

„Person-centred psychotherapy research in Austria - a demographic and process-outcome study“. Talk at the 13th World Conference for Person-Centered and Experiential Psychotherapy and Counselling (PCE 2018). *Wien, July 8th – 12th 2018.*

“The Brain Is Standing Sentinel while We Sleep: Continued Evaluation of Emotional Stimuli in the Absence of Consciousness“. Talk at the 22nd Meeting of the Association for the Scientific Study of Consciousness (ASSC 22). *Krakow, Poland, June 26th – 29th 2018.*

“Continued evaluation of own name stimuli in deep NREM sleep – A hd-EEG study“. Talk at the 2nd International Conference on Sleep Spindling and Related Phenomena. *Budapest, Hungary, May 24th – 26th 2018.*

„Machine Learning for Classifying Sleep“. Talk at the 27. Jahrestagung der Österreichischen Gesellschaft für Schlafmedizin und Schlafforschung ÖGSM / ASRA „Schlaf in der

Leistungsgesellschaft“. *Hof bei Salzburg, Austria, April 6th – 7th 2018.*

„Was uns Schlaf der ganz Kleinen über unseren Schlaf sagen kann - Sleep in newborns - A highdensity EEG study on perinatal learning“. Talk at the 27. Jahrestagung der Österreichischen Gesellschaft für Schlafmedizin und Schlafforschung ÖGSM / ASRA „Schlaf in der Leistungsgesellschaft“. *Hof bei Salzburg, Austria, April 6th – 7th 2018.*

“Informationsverarbeitung & Circadiane Rhythmen bei Patienten mit schweren Hirnschädigungen - Informationsverarbeitung in veränderten Bewusstseinszuständen“. Invited talk at the Symposium “10 years of consciousness research at the Albert Schweitzer Klinik“. *Graz, Austria, March 14th 2018.*

2017

„Information processing in altered states of consciousness“. Talk at the Instituto de Física, Universidade Federal Fluminense. *Rio de Janeiro, Brazil, November 14th 2017.*

„Information processing in altered states of consciousness“. Talk at the IDOR - Instituto D'Or de Pesquisa e Ensino. *Rio de Janeiro, Brazil, November 8th 2017.*

„Spontaneous brain activity, circadian rhythms and information processing“. Talk at the Biomedical Sciences Institute (ICB) at the Universidade Federal do Rio de Janeiro (UFRJ). *Rio de Janeiro, Brazil, October 2nd 2017.*

“Oscillations in the broad alpha band: New Findings“. Chair at the symposia at the 13th International Conference on Cognitive Neuroscience (ICON). *Amsterdam, The Netherlands, August 5th-8th 2017.*

“Entraining the brain to improve sleep: A double-blind study using 12-15Hz Neurofeedback“. Talk at the 13th International Conference on Cognitive Neuroscience (ICON). *Amsterdam, The Netherlands, August 5th-8th 2017.*

„Information processing in altered states of awareness“. Talk at the Sleep Division of the Brigham & Women's Hospital/Harvard Medical School. *Boston, USA, June 8th 2017.*

Forschung kompakt – Spitzenforschung an der PLUS: „Informationsverarbeitung in veränderten Bewusstseinszuständen“. Invited talk at the “Tag der Universität” at the University of Salzburg, *Salzburg, Austria, May 31st 2017.*

“Erleben und Informationsverarbeitung in veränderten Bewusstseinszuständen“. Invited talk at the WissensDurst - Das Festival der österreichischen Wissenschaft. *Salzburg, Austria, May 16th 2017.*

“Post-komatöse Zustände und Schlaf“. Invited talk for the 2nd Fachtag Schlafmedizin. *Vienna, Austria, March 25th 2017.*

2016

“Oscillations, Sleep & Memory “.Talk at the 2nd OHBM Alpine Chapter Symposium. *Salzburg, Austria, November 25th - 26th 2016.*

“The effect of sleep and neurofeedback on sleep quality and memory consolidation in insomnia patients “. Talk at the 50th Conference of the German Society for Psychology. *Leipzig, Germany, September 18th - 22th 2016.*

“Psychophysiological responses to prenatally presented nursery rhymes in sleep and waking newborns“. Talk at the 23rd Meeting of the European Sleep Research Society (ESRS). *Bologna, Italy, September 13th-16th 2016.*

“Diurnal Variations in Consciousness – Insights from Rhythm Research“. Invited talk at the Symposium: Schlaf bei Patienten mit schweren Bewusstseinsstörungen. *Bad Aibling, Germany, August 19th 2016.*

“Processing information in altered states of consciousness - Talk about sleep, memory and disorders of consciousness “. Invited talk at the University of Havana. *Havana, Cuba, August 31st 2016.*

“The quest for neural correlates of consciousness - New directions and challenges for established perspectives“. Chair at a symposia at the 20th Annual Meeting of the Association for the Scientific Study of Consciousness. *Buenos Aires, Argentina, June 14th – 18th 2016.*

“ Erleben und Informationsverarbeitung in veränderten Bewusstseinszuständen - Eine neurowissenschaftliche Sicht“. Invited talk at the BÖP-Veranstaltung “Themenabend

"Informationsverarbeitung in veränderten Bewusstseinszuständen"⁴, *Salzburg, Austria, June 2nd 2016*.

"Richtige Schlafkultur: Vom gesunden und gestörten Schlaf". Invited talk at the "Gesundheitstag 2016 – Achtsamkeit im beruflichen Alltag" at the University of Salzburg, *Salzburg, Austria, May 18th 2016*.

"The effect of sleep and neurofeedback on sleep quality and memory consolidation in insomnia patients". Keynote presentation at the 1st International Conference on Sleep Spindling, *Budapest, Hungary, May 12th – 14th 2016*.

"Erleben und Informationsverarbeitung in veränderten Bewusstseinszuständen – Eine neurowissenschaftliche Sicht". Keynote presentation at the 12. Tagung der Österreichischen Gesellschaft für Psychologie, *Innsbruck, Austria, March 31st – April 2nd 2016*.

"Schlafen lernen und lernen im Schlaf". Invited talk for the 1st Fachtag Schlafmedizin, *Vienna, Austria, February 27th 2016*.

"Schlaf Gut – Über den gesunden und gestörten Schlaf". Invited talk for „Frauen für Freundschaft in Europa“ *Gasthof Wartenberg, Salzburg, February 2nd 2016*.

2015

"Der tägliche Schlaf – gesunder und gestörter Schlaf". Invited talk for the Seminar „Führen in Zeiten wachsender Komplexität“ am Fortbildungsinstitut der Bayerischen Bundespolizei in *Ainring, Germany, November 27th 2015*.

"Schlaf gut! Hilfreiches für eine ruhige Nacht". Invited talk (SGKK) at the Gesundheitsinformationszentrum in *Salzburg, Austria, November 10th 2015*.

"NREM sleep phenomena and their significance for „offline“ information processing". Talk at the 7th Congress of the World Sleep Federation "Sleep and Health". *Istanbul, Turkey, October 31th – November 3rd 2015*.

Unser Gehirn – Von Bewusstsein, Lernen und Erkrankungen. Invited talk at the Rotary Club Salzburg Land in Eugendorf, Austria. *Eugendorf, Austria, October 1st 2015*.

"Sleep-dependent memory consolidation and NFT in insomnia: A double-blind 'spindle-frequency' Biofeedback study". Invited talk at the Annual Meeting of ECNS/ISNIP/ISBET (Munich Neurophysiology Conference 2015) in Munich, Germany. *Munich, Germany, September 9th - 13th 2015*.

"Sleep and Cognition - A playground for neuroinformatics?" at the Centro de Neurociencias de Cuba in La Habana, Cuba. *La Habana, Cuba, September 3rd 2015*.

"Information processing and sleep in Disorders of Consciousness" at the Institute of Neurology and Neurosurgery in La Habana, Cuba. *La Habana, Cuba, September 2nd 2015*.

"Sleep, Memory and Development " at the Brain Institute in Natal, Brasil. *Natal, Brasil, August 17th 2015*.

"Small babies, big problems - Therapeutic interaction analysis and video -based intervention in infants with regulatory disorders – Research Outcomes" at the International Forum PCA XIII Forum in Izvorani, Romania. *Izvorani, Romania, May 29th 2015*.

"Research on Client-Centered Psychotherapy – Outcome in Austria" at the International Forum PCA XIII Forum in Izvorani, Romania. *Izvorani, Romania, May 30th 2015*.

Developmental psychology and intervention using videography at the University of Bucharest. *Bucharest, Romania, May 28th to June 2nd 2015. (Lecturers: P. Schernhardt/M. Schabus)*.

Developmental psychology and intervention using videography at the University of Bucharest. *Bucharest, Romania, May 28th to June 2nd 2015. (Lecturers: P. Schernhardt/M. Schabus)*.

Bewusstsein auf dem Prüfstand – Gehirnforschung zwischen Schlaf und Wachkoma. Public talk organized by the Salzburg Society for Psychology at the University of Salzburg, Department of Psychology. *Salzburg, Austria, April 29th 2015*.

Unser Gehirn – von Bewusstsein, Lernen und Erkrankungen. Public talk organized by the Austrian Science Fund FWF at the "Theatre Akzent" in Vienna. *Vienna, Austria, April 16th 2015*.

An den Grenzen des Bewusstseins – Gehirnforschung zwischen Schlaf- und Wachkoma. Invited talk at the „Berufsverband österreichischer Psychologen“ (BÖP). *Vienna, Austria, April 15th 2015.*

Bewusstsein auf dem Prüfstand: Gehirnforschung zwischen Schlaf und Wachkoma. Invited talk at the Katholischer Akademiker/innenverband (KAV) Salzburg. *Salzburg, Austria, February 2nd 2015.*

2014

Schlaf und Zirkadianik beim gesunden und erkrankten Gehirn. Invited talk at the University Clinic of Neurology (Prof. Fazekas & Assoc.-Prof. Enzinger). *Graz, Austria, December 11th 2014.*

Zirkadianik und Schlaf im „Wachkoma“ - Eine neurowissenschaftliche Sicht. Invited talk at the Albert-Schweitzer Clinic Graz (OA Dr. Pichler). *Graz, Austria, November 18th 2014.*

Information processing in altered states of awareness – Insights from Sleep and Disorders of Consciousness. Talk at the Centre for Chronobiology at the University of Basel (C. Cajochen). *Basel, Switzerland, October 23rd 2014.*

Verbleibende Informationsverarbeitung im Wachkoma - Eine Neurowissenschaftliche Sicht. Invited talk at the 16th Congress of the Society for Neuropsychology Austria (GNPÖ), “Neuropsychologie der Bewusstseinsstörungen: Klinische Symptomatik und rehabilitative Maßnahmen”. *Vienna, Austria, October 4th 2014.*

Personzentrierte Forschung – sicher, sauber, schnell und schön? Workshop (N. File, J. Sauer, & M. Schabus) at the „Jubiläumskongress der ÖGWG in Kooperation mit den deutschsprachigen Vereinen aus Österreich ÄGG, IPS, VRP und Forum, aus Deutschland ÄGG, DPGG, Gwg, aus der Schweiz pca.acp, sowie dem Verband VPKJ“. *Salzburg, Austria, September 25th - 27th 2014.*

Von kleinen Babys und großen Problemen – Videogestützte Interaktionsanalyse in Diagnose und Therapie. Workshop at the „Jubiläumskongress der ÖGWG in Kooperation mit den deutschsprachigen Vereinen aus Österreich ÄGG, IPS, VRP und Forum, aus Deutschland ÄGG, DPGG, Gwg, aus der Schweiz pca.acp, sowie dem Verband VPKJ“. *Salzburg, Austria, September 25th - 27th 2014.*

Memory, Cognition and Dreaming. Chair at the 22nd Congress of the European Sleep Research Society (ESRS), *Tallinn, Estonia, September 16th – 20th 2014.*

Informationsverarbeitung und Zeichen minimalen Bewusstseins im Wachkoma – Eine neurowissenschaftliche Sicht. Invited talk at the 2nd BAG Symposium “Wachkoma und andere neurologisch bedingte Bewusstseinsstörungen”. *Cologne, Germany, September 4th - 5th 2014.*

EEG responses to stimuli of personal relevance in healthy controls and disorder of consciousness patients. Invited talk at the 18th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC). *Brisbane, Australia, July 16th to 19th 2014.*

Therapeutic Interaction Analysis – Doing research using the CARE-Index at the University of Bucharest. *Bucharest, Romania, June 19th to 24th 2014. (Lecturers: M. Schabus/P. Schernhardt)*

SMR neurofeedback and sleep quality – A non-pharmacological alternative for primary insomnia? Invited talk (ÖGP; Austrian Society for Psychology) at the Karl-Franzens University. *Graz, Austria, May 27th 2014.*

SMR neurofeedback for improving sleep and memory – A double-blind study in primary insomnia. Invited talk at the Society for the advancement of brain analysis (SABA). *Avalon, Catalina Island, California (USA), May 7th to May 10th 2014.*

Information processing in altered states of awareness - Insights from Sleep to Disorders of Consciousness. Invited talk at the COPPE/UFRJ - Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa de Engenharia, Programa de Engenharia Biomédica. *Rio de Janeiro, Brazil, April 25th 2014.*

Information processing in altered states of awareness - Insights from Sleep to Disorders of Consciousness. Invited talk at the Brain Institute at Universidade Federal do Rio Grande do Norte (UFRN). *Natal, Brazil, April 23rd 2014.*

Therapeutic Interaction Analysis – “Regulatory Disorders” at the University of Bucharest. *Bucharest, Romania, February 27th to 1st of March 2014. (Lecturers: P. Schernhardt/M. Schabus)*

Non-pharmacological treatment of primary insomnia using SMR neurofeedback. Invited talk at the Meeting of the Society of Applied Neuroscience (SAN). *Utrecht, Netherlands, January 30th to February 2nd 2014.*

Towards the significance of sleep and cognition – An overview of neuroscientific evidence. Invited talk at the Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen. *Nijmegen, Netherlands, February 29th 2014.*

2013

Residual cognitive processing and sleep in DOC. Invited talk at the 6th International Symposium on Brain Death and Disorders of Consciousness. *Havanna, Cuba, December 3rd to 6th 2013.*

Sleep and cognition – a field with broad implications? Invited talk at the Meeting of the Cuban Society of Clinical Neurophysiology. *Havanna, Cuba, December 7th 2013.*

Presentation on “Altered states of awareness and cognition” & “Of Little Babies and Big Problems - Emotional Availability and parental strain in disorders of regulation”. Invited talks at the University of Bucharest. *Bucharest, Romania, November 22nd 2013.*

Von kleinen Babys und großen Problemen. Workshop bei der Tagung der Österreichischen Gesellschaft für wissenschaftliche, klientenzentrierte Psychotherapie und personorientierte Gesprächsführung (ÖGWG). *Schloss Puchberg, Puchberg bei Wels, 23rd-26th of October 2013.*

Sleep and Cognition - A field with broad implications? Invited talk at the University of Salzburg, Brain oscillations and cognition: A symposium in honour of Prof. Klimesch, *Unipark Nonntal, Salzburg/Austria, September 19th-20th 2013.*

Sleep and cognition. A field with broad implications for psychology. Invited talk at the Université libre de Bruxelles, Neuropsychology & Functional Neuroimaging Research Unit (Head: Philippe Peigneux), *Bruxelles, Belgium, April 25th 2013.*

Der Einfluss von 12-15Hz Neurofeedback Training auf gesunden und gestörten Schlaf. Annual Meeting of the Austrian Sleep Research Association (ASRA), *Schlosshotel Wilhelminenberg, Austria, 19th to 20th of April 2013.*

Sleep and its role for memory consolidation. Symposium organizer and chair at the 55th conference of experimental psychologists (TEAP), *Vienna, Austria, March 24th to March 27th 2013.*

"Neuronale Sicht des Bewusstseins". *PPP-Lehrerfortbildung, Hipping (Österreich), 20th of March 2013.*

2012

Sleep, sleep spindles and memory consolidation. Invited speaker at the School of Advanced Studies (“Current and Future Perspectives in Sleep and Circadian Rhythms Research”), *Cluj-Napoca, Romania, October 31st to November 3rd 2012.*

Experimental treatment interventions for insomnia. Invited speaker at the School of Advanced Studies (“Current and Future Perspectives in Sleep and Circadian Rhythms Research”), *Cluj-Napoca, Romania, October 31st to November 3rd 2012.*

Sleep, neurofeedback and motor imagination. Invited talks for the Austrian Training Course in Athletic, Fitness and Coordination (“Bundessportakademie Wien”). *BSFZ Schielleiten, Austria, October 13th - 14th 2012.*

Wachkoma – An der Grenze des Bewusstseins. Keynote speaker at the 10th Anniversary of the “Initiative für Menschen im Wachkoma”, *Graz, Austria, September 21st 2012.*

Instrumental sensorimotor-rhythm conditioning: a non-pharmacological treatment alternative for insomnia? Invited speaker at the 40th Anniversary of the European Sleep Research Society (ESRS), *Paris, France, September 4th to 8th 2012.*

The fate of incoming stimuli during deep sleep is determined by spontaneous NREM sleep features. Invited speaker at the 40th Anniversary of the European Sleep Research Society (ESRS), *Paris, France, September 4th to 8th 2012.*

Sleep and memory – From healthy sleep to insomnia. Invited speaker at the 4th Amsterdam Memory Slam, *Amsterdam, Netherlands, August 30th to 31st 2012.*

Sleep and cognition: A field with potential implications for psychology. Invited speaker at the 30th

International Congress of Psychology, Cape Town, South Africa, July 22nd to 27th 2012.

Diagnostic significance of linguistic paradigms and sleep in disorders of consciousness. Invited talk at the *5th International Conference on Cognitive Science, Kaliningrad, Russia, June 19th to 23rd 2012.*

Non-pharmacological treatment of primary insomnia using sensorimotor-rhythm neurofeedback. Invited at the *10th Annual Meeting of the Austrian Society for Psychology (ÖGP), Karl-Franzens University, Graz, Austria, April 12th to 14th 2012.*

2011

Non-pharmacological treatment of insomnia by instrumental SMR conditioning. *Clinical Cognitive Neuroscience Workshop of the Skyra Imagistics Platform, Cluj-Napoca, Romania, December 19th-20th 2011.*

"Schlaf, Bewusstsein und Kognition" (Bericht und Diskussion neuester Ergebnisse der Schlaf- und Gehirnforschung). *PPP-Lehrerfortbildung, Salzburg, 8th of November 2011.*

„Intrinsische Gehirnaktivität in außergewöhnlichen Bewusstseinszuständen“. *Wiener Herbsttage für transkulturelle Psychiatrie, AKH Wien, Wien, 5th of November 2011.*

„Verbreitung und Wirksamkeit klientenzentrierter Psychotherapie in Österreich – Präsentation der Studienergebnisse: Phase 1“. *ÖGWG Woche, Regionalzentrum Salzburg, Schloss Puchberg bei Wels, 22nd – 26th of October 2011.*

Neurofeedback for enhancing memory and sleep quality in healthy individuals and insomnia patients. *Université de Liège, Cyclotron Research Centre, Belgium, October 18th 2011.*

Residual cognitive processing and sleep – current findings. *Closing Meeting of the COST Action BM0605, COST Office, Bruxelles, Belgium, October 17th 2011.*

SMR Neurofeedback: A non-pharmacological treatment alternative for enhancing memory and sleep quality. *Universität Salzburg, Fachbereich Psychologie, Österreich, October 5th 2011.*

Karriereentwicklung und die Bedeutung vom Arbeiten im Ausland. ÖGP (Austrian Psychological Society) Young Scientist Summer School 2011. *Spital am Pyrn, Austria, 20th – 22nd of July 2011*

SMR Neurofeedback und dessen Anwendung für die primäre Insomnie. *Schloß Seggau, Austria, 13th - 15th of May 2011.*

Biologische Psychologie: Blick ins Gehirn – Tag der offenen Tür: Universität Salzburg. *Universität Salzburg, Fachbereich Psychologie, Österreich, May 4th 2011.*

Sleep Spindles and Cognition. Invited talk at the *Max-Planck-Institut for Psychiatry, Munich, Germany, April 26th 2011.*

Sleep and Residual Cognitive Processing in Disorders of Consciousness. Talk at the Centre for Neurocognitive Research within the BMBF programme “Vegetative State: A Paradigmatic Problem of Modern Society”, *Christian-Doppler-Hospital, Salzburg, Austria, March 22nd 2011.*

Sleep and Cognition - Residual Cognitive Processing and Sleep in Disorders of Consciousness. Invited talk at the *University of Zurich, Zurich, Switzerland, March 11th 2011.*

Vorstellung des Forschungsprojekts „Verbreitung und Wirksamkeit klientenzentrierter Psychotherapie in Österreich“. *ÖGWG Regionalzentrum Salzburg, Salzburg, 18th of January 2011.*

2010

Altered States of Consciousness. Invited talk at the *Nicolaus Copernicus University, Torun, Poland, December 13th & 14th 2010.*

Vorstellung des Projekts der ÖGWG-Wissenschaftskommission zur quantitativen Psychotherapieforschung. Tagung der Österreichischen Gesellschaft für wissenschaftliche, klientenzentrierte Psychotherapie und personorientierte Gesprächsführung (ÖGWG). *Schloss Puchberg, Puchberg bei Wels, 20th-23rd of October 2010.*

Event-related brain oscillations in disorders of consciousness. *3rd International Conference on Coma and Consciousness. Salerno, Italy, 4th-7th of July 2010.*

Sleep-dependent consolidation of temporal order in episodic memories. Final symposium of the ESRS – EU Marie Curie- Project “Training in Sleep Research and Sleep Medicine” (2007-2010). *Kloster Seeon, Germany, 2nd-6th of July 2010.*

Tutorial presenter (together with K. Hoedlmoser) "Train your brain! Understanding and applying the neurofeedback technique" at the 14th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC), *Toronto, Canada, June 24th 2010*.

Kognitive Verarbeitung in veränderten Bewusstseinszuständen. *Medizinischen Fakultät der Universität Regensburg, Abteilung für Psychosomatische Medizin, Germany, May 20th 2010*.

Neuropsychologie bewusster und unbewusster Prozesse – Tag der offenen Tür: Universität Salzburg. *Universität Salzburg, Fachbereich Psychologie, Österreich, April 28th 2010*.

Die Rolle des Schlafs auf die zeitliche Abfolge in episodischen Gedächtnisinhalten. Annual Meeting of the Austrian Sleep Research Association (ASRA). *Congresspark Igls, Austria, 23rd -25th of April 2010*.

Sleep and Memory Consolidation: From healthy to disordered sleep. Opening talk and chair in the the symposium "Sleep and Memory Consolidation" at the 9th Annual Meeting of the Austrian Association for Psychology (ÖGP), *University of Salzburg, Austria, April 8th -10th 2010*.

Twentyfour hour EEG in Coma Patients. Invited talk at the "Generalversammlung der Österreichischen Wachkoma Gesellschaft" (Austrian Coma Society), *Vienna, Austria, March 31st 2010*.

2009

Residual Cognitive Processing in Altered States of Consciousness (Habilitation Presentation). *University of Salzburg, November 4th 2009*.

Neuromaging, sleep and memory and its relevance for sports. Invited talk at the Meeting of the "Bundessportakademien" (federal training course for sport coaches), *Bad Leonfelden, Austria, November 24th - 26th 2009*.

Neurofeedback Training für Insomnie- Patienten. Neurofeedback Symposium. *Universitätsspital Zürich, August 28th 2009*.

Neurofeedback: Grundlagen und Anwendungen (Neurodynamik bei Biofeedback). Workshop speaker at the conference "Neurobiologie der Psychotherapie – Beziehung und Komplexität", *Große Aula der Universität Salzburg, Austria, July 3rd - 5th 2009*.

Instruction following in disorders of consciousness. Invited talk at the 13th Annual Meeting of the Association for the Scientific Study of Consciousness, *Humboldt-University of Berlin, Germany, June 5th - 8th 2009*.

Brain oscillations shaping sensory awareness. Invited talk at the 2nd international symposium entitled "Coma and Consciousness: Clinical, societal and ethical implications". Satellite to the 13th Annual Meeting of the Association for the Scientific Study of Consciousness, *Humboldt-University of Berlin, Germany, June 4th - 5th 2009*.

Operant conditioning of rhythmic sensorimotor EEG activity: Effects on insomnia. Invited talk at the Society for the Advancement of Brain Analysis, *St. Augustine, Florida, USA, May 1st - 5th 2009*.

A non-pharmacological alternative for the treatment of primary insomnia – Neurofeedback. Invited talk at the Department for Sleep & Cognition at the Netherlands Institute for Neuroscience (Prof. Van Someren), *Amsterdam, Netherlands, 11th of February 2009*.

2008

Oscillatory events in light non-REM sleep. Invited talk at the symposium "Brain Oscillatory Correlates of Cognitive Processes" (Chair: W. Klimesch / P. Sauseng) at the XXIX International Congress of Psychology, *Berlin, Germany, July 20th -25th 2008*.

Sleep, memory consolidation and neurofeedback. Invited talk at University of Lyon (Dr. Perrin, CNRS-UCBL), *France, June 6th 2008*.

Sleep and memory consolidation. Invited talk at the Department of Experimental Psychology (Prof. Dr. Bäuml), *University of Regensburg, Germany, April 30th 2008*.

Oscillatory events during sleep and their significance for memory consolidation. Opening talk at the symposium "Sleep and Memory Consolidation" (Chair: M. Schabus) at the 8th Annual Meeting of the Austrian Association for Psychology, *University of Linz, Austria, April 24th -26th 2008*.

Interindividual sleep spindle differences and their relation to learning-related enhancements. Talk at

the Annual Meeting of the Austrian Sleep Research Association, *St. Virgil, Salzburg, Austria, April 4-6th 2008*.

Sleep and cognition and their alteration by instrumental conditioning. Invited talk at the Department for Psychology, *University of Salzburg, Austria, March 5th 2008*.

Instrumental conditioning of human sensorimotor rhythm and its impact on sleep, cognition and insomnia. Invited talk at the 12th annual meeting of the Biofeedback Foundation of Europe (BFE); Symposium: Effects of neurofeedback on sleep and sleep disorders (Chair: Sterman, B.). *University of Salzburg, Austria, February 21st 2008*.

2007

Der Schlaf. Seine Bedeutung für die Gedächtniskonsolidierung und neueste Erkenntnisse zur simultanen EEG/fMRI Forschung. Invited talk at the ‚Universitätsklinikum Aachen, Klinik für Psychiatrie und Psychotherapie‘ (Prof.DDr. Schneider), *Aachen, Germany, April 24th 2007*.

2006

Neural correlates of sleep spindles as revealed by simultaneous electroencephalography (EEG) and functional magnetic resonance imaging (fMRI). Invited talk at the 18th meeting of the ‚European Sleep Research Society‘ (ESRS), *Innsbruck, Austria, September 15th 2006*.

Schlaf, Lernen und Gedächtnis. Invited talk and workshop on “Neurowissenschaften, Instruktion, Lernen” at the ‚Clinic for Psychiatry and Psychotherapy‘ (Dr. Rodenbeck/Prof. Huether), *Göttingen, Germany, June 15th - 16th 2006*.

2005

Sleep spindles and their significance for memory consolidation and general cognitive abilities. Invited talk at the Université de Liège, *Liège, Belgium, Dec. 8th 2005*.

Sleep-spindle related activity in the human EEG and their interaction with memory performance. Keynote speaker at the 9th annual meeting of the ‚Biofeedback Foundation of Europe‘, Provinciale Hogeschool Limburg, *Hasselt, Belgium, February 22nd - 27th 2005*.

2004

The relationship between sleep spindle activity, phase-locking of the EEG and declarative memory consolidation. Invited talk at the 17th meeting of the European Sleep Research Society (ESRS), *Prague, Czech Republic, October 5th - 9th 2004*.

Schlafspindeln und deren Bedeutung für deklarative Gedächtniskonsolidierung. Invited talk at the 12th meeting of the ‚German Society for sleep research and sleep medicine‘ (DGSM), *Freiburg, Germany, September 23th - 25th 2004*.

Sleep spindles and their significance for declarative memory consolidation. Invited talk at the Col·legi de Psicòlegs - Catalan Society for Neuropsychology, *Barcelona, Spain, May 25th, 2004*.

The significance of sleep and sleep spindles for declarative memory consolidation. Invited talk at the Facultat de Psicologia, Universitat Autònoma de Barcelona, *Barcelona, Spain, May 24th 2004*.

2003

Sleep spindles and its significance for memory consolidation. Invited talk at the Institute for Psychology, *Marburg, Germany, November 14th 2003*.

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Österreichische Gesellschaft für Schlafmedizin & Schlafforschung (ÖGSM) / Austrian Sleep Research Association (ASRA).

Österreichische Gesellschaft für wissenschaftliche, klientenzentrierte Psychotherapie und personorientierte Gesprächsführung (ÖGWG) / Austrian Client-Centred Psychotherapy

ÖGWG-Delegierter für Zusammenarbeit mit dem Österreichischen Bundesinstitut für Gesundheitswesen (ÖBIG)

Österreichische Gesellschaft für Psychologie (ÖGP) / Austrian Society for Psychology