

PUBLICATIONS

- Doppelmayr, M., Klimesch, W., Sauseng, P., Hödlmoser, K., & Rachbauer, D. (2003). EEG Bandpowerchanges during the performance of an intelligence task. *Brain Topography*, 15(4), 263.
- Doppelmayr, M., Weber, E., Hoedlmoser, K., & Klimesch, W. (2009). Effects of SMR Feedback on the EEG Amplitude. *Kognitive Neurophysiologie des Menschen*, 2(1), 21-32
- Doppelmayr, M., Klimesch, W., Sauseng, P., Hödlmoser, K., Stadler, W., & Hanslmayr, S. (2005). Intelligence related differences in EEG-bandpower. *Neuroscience Letters*, 381, 309-313.
- Hoedlmoser, K., Klösch, G., Wiater, A., & Schabus, M. (MS in Review). Sleep habits and behaviour problems in Austrian children aged between 8 and 11.
- Hoedlmoser, K., Griessenberger, H., Freunberger, R., Klimesch, W., & Schabus, M. (MS in Review). Dissociation between tonic and phasic EEG changes related to sleep pressure measured during a psychomotor vigilance task.
- Hoedlmoser, K., Pecherstorfer, T., Gruber, G., Anderer, P., Doppelmayr, M., Klimesch, W., & Schabus, M. (2008). Instrumental conditioning of human sensorimotor rhythm (12-15Hz) and its impact on sleep as well as declarative learning. *SLEEP*, 31(10), 1401-1408.
- Hoedlmoser, K. (2004). *EEG Alpha und Theta Power im Zusammenhang mit Intelligenz*. Unpublished Master's Thesis, University of Salzburg, Austria.
- Hoedlmoser, K. (2007). *The significance of Sleep-Related Theta Synchronization for General Memory Abilities and the Impact of Neurofeedback on Sleep*. Unpublished Doctoral Dissertation, University of Salzburg, Austria.
- Schabus, M., Hödlmoser, K., Pecherstorfer, T., & Klösch, G. (2005). Influence of midday naps on declarative memory performance and motivation. *Somnologie*, 9(3), 148-153.
- Schabus, M., Hödlmoser, K., Gruber, G., Sauter, C., Anderer, P., Klösch, G., Parapatics, S., Saletu, B., Klimesch, W., & Zeitlhofer, J. (2006). Sleep spindle-related activity in the human EEG and its relation to general cognitive and learning abilities. *European Journal of Neuroscience*, 23, 1738–1746.

Schabus, M., Hödlmoser, K., Pecherstorfer, T., Anderer, P., Gruber, G., Parapatics, S., Sauter, C., Klösch, G., Klimesch, W., Saletu, B., & Zeitlhofer, J. (2008). Interindividual sleep spindle differences and their relation to learning-related enhancements. *Brain Research*, 1191, 127-135.

ABSTRACTS, POSTERS, ORAL PRESENTATIONS

Doppelmayr, M., Klimesch, W., Sauseng, P., & Hödlmoser, K. (2002). Differences in bandpowerchanges according to the performance in an intelligence test. Congress abstract: *International Journal of Psychophysiology*, 45, 86.

Doppelmayr, M., Klimesch, W., Hödlmoser, K., & Sauseng, P. (2003). Bandpower changes during the performance of an intelligence test. Congress Abstract. *Journal of Psychophysiology* 17 (Suppl.), 47.

Doppelmayr, M., Hödlmoser, K., Schabus, M., & Klimesch, W. (2003). ERD changes in different frequency bands during the performance of an intelligence task. Congress abstract. *Acta Neurobiologiae Experimentalis*, 63 (Supplement), 22.

Hödlmoser, K., Schabus, M., Pecherstorfer, T., & Klösch, G. (2005). Declarative memory performance after a one hour midday nap. Poster presentation at the World Association of Sleep Medicine First Congress, 15.-18. October 2005, Berlin, Deutschland.

Hödlmoser, K., Schabus, M., Pecherstorfer, T., & Klösch, G. (2005). Influences of midday naps on declarative memory performance and motivation. Poster presentation at the European Course in Basic and Clinical Sleep Research, 3.-5. March 2005, Zürich, Schweiz.

Hoedlmoser, K., Stadler, W., Schabus, M., Sauter, C., Kloesch, G., Gruber, G., Anderer, P., Klimesch, W., Saletu, B., & Zeitlhofer, J. Effects of sleep on episodic compared to semantic memory? European Course in Basic and Clinical Sleep Research, 2.-4. March 2006, Bertinoro, Italy.

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

Hoedlmoser, K., Schabus M., Pecherstorfer, T., Moser, S., & Doppelmayr, M. Effects of SMR-Neurofeedback-Training on Memory Performance and Sleep. Annual Meeting of the 'Biofeedback Foundation of Europe', 27. February - 3. March 2007, Berlin, Germany.

Hoedlmoser, K., Pecherstorfer, T., Anderer, P., Gruber, G., Doppelmayr, M., Klimesch, W., & Schabus, M., (2007). Instrumental conditioning of human sensorimotor rhythm (12-15Hz) and its impact on sleep as well as declarative memory performance. Oral and Poster presentation at the 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, 2. - 6. September 2007 (Trainee Award grant: 1500 AUS\$; Best Trainee Presentation), Cairns, Australia.

Hoedlmoser, K., Pecherstorfer, T., Anderer, P., Gruber, G., Doppelmayr, M., Klimesch, W., & Schabus, M. Instrumental conditioning of human sensorimotor rhythm (12-15Hz) and its impact on sleep as well as declarative memory performance. Invited talk within the Symposium 'Effects of EEG Neurofeedback on Sleep and Sleep Disorders', 12th Annual Meeting of the 'Biofeedback Foundation of Europe', 19. - 23. February 2008, Salzburg, Austria.

Hoedlmoser, K., Pecherstorfer, T., Anderer, P., Gruber, G., Doppelmayr, M., Klimesch, W., & Schabus, M. 'Instrumentelle Konditionierung Sensomotorischer Oszillationen (12-15Hz) im Zusammenhang mit Schlafqualität und Gedächtnisleistung'. Invited talk at the Annual Meeting of the 'Österreichische Gesellschaft für Schlafmedizin und Schlafforschung' (Austrian Sleep Research Association), 4.- 6. April 2008, Salzburg, Austria.

Hoedlmoser, K., Pecherstorfer, T., Anderer, P., Gruber, G., Doppelmayr, M., Klimesch, W., & Schabus, M. Instrumental conditioning of human sensorimotor rhythm (12-15Hz) and its impact on sleep as well as declarative memory performance. Invited talk within the Symposium "Sleep and memory consolidation", 8th Annual Meeting of the 'Österreichische Gesellschaft für Psychologie', 24.- 26. April 2008, Linz, Austria.

Hoedlmoser, K., Pecherstorfer, T., Anderer, P., Gruber, G., Doppelmayr, M., Klimesch, W., & Schabus, M. Instrumental conditioning of human sensorimotor rhythm (12-15Hz) and its impact on sleep as well as declarative learning performance. Poster presentation at the 19th Congress of the European Sleep Research Society, 9.-13. September, 2008, Glasgow, Scotland, UK.

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

Hoedlmoser, K., Pecherstorfer, T., Anderer, P., Gruber, G., Doppelmayr, M., Klimesch, W., & Schabus, M. Instrumentelle Konditionierung Sensomotorischer Oszillationen (12-15Hz) im Zusammenhang mit Schlafqualität und Gedächtnisleistung. Invited talk within the Symposium 'Forum Junge Wissenschaftler', 16th Annual Meeting of the 'Deutsche Gesellschaft für Schlafforschung und Schlafmedizin', 16.- 18. October, 2008, Kassel, Germany.

Hoedlmoser, K., 'Einführung in die Schlafphysiologie'. Invited talk within the 'Interdisziplinäres Symposium Schlafmedizin', 7.-8. November, 2008, Hamburg, Germany.

Hoedlmoser, K., Klösch, G., Wiater, A., & Schabus, M. 'Schlafgewohnheiten von Salzburger Schulkindern im Alter von 8-11 Jahren'. Invited talk at the Annual Meeting of the 'Österreichische Gesellschaft für Schlafmedizin und Schlafforschung' (Austrian Sleep Research Association), 24.- 26. April 2009, Steyr, Austria.

Hoedlmoser, K., Klimesch, W., & Schabus, M. Operant Conditioning of SMR activity in Normal Subjects: Effects on Sleep and Declarative Learning. Invited talk at the 8th Annual Meeting of the Society for the Advancement of Brain Analysis (SABA), 1.-5. May, 2009, Marine Land, St. Augustine, Florida, USA.

Hoedlmoser, K., Pecherstorfer, T., Gruber, G., Anderer, P., Klimesch, W., & Schabus, M. A non-pharmacological alternative for the treatment of insomnia –Instrumental Conditioning of Brain Oscillations. Invited talk within the Symposium 'O17: Treatment Strategies for Insomnia', at 'SLEEP2009', 23rd Annual Meeting of the Associated Professional Sleep Societies, LLC (APSS), 6. – 11. June, 2009, Seattle, Washington, USA.

Hoedlmoser, K., Schabus, M., Doppelmayr, M., & Klimesch, W. (2009). Neurofeedback: Grundlagen und Anwendungen. Invited workshop at the conference 'Neurobiologie der Psychotherapie', Paracelsus Medizinische Privatuniversität Salzburg, 3.-5. July, 2009, Salzburg, Austria.

Moser, D., Sauter, C., Klösch, G., Schabus, M., Hödlmoser, K., Anderer, P., Klimesch, W., & Zeitlhofer, J. (2005). Mittagsschlaf und Schlafarchitektur bei gesunden jungen Personen. Freier Vortrag auf der 13. Jahrestagung der Deutschen Gesellschaft für Schlafmedizin, 13.-15. October 2005, Berlin, Deutschland.

Sauter, C., Klösch, G., Schabus, M., Hödlmoser, K., Anderer, P., Klimesch, W., Saletu, B., & Zeitlhofer, J. (2004). Does sleep improve results in an implicit memory test? *Somnology*, 8 (Suppl. 1), 13-82.

- Sauter, C., Kloesch, G., Schabus, M., Hoedlmoser, K., Anderer, P., Gruber, P., Parapatics, P., Klimesch, W., Saletu, B., & Zeitlhofer, J. (2004). Sleep improves performance in an implicit memory task. *Journal of Sleep Research*, 13 (Suppl. 1).
- 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. Oral presentation at the World Association of Sleep Medicine First Congress, 15.-18. October 2005, Berlin, Deutschland.
- 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.
- Sauter, C., Moser, D.C., Anderer, P., Kloesch, G., Hoedlmoser, K., Stadler W., Schabus, M., & Zeitlhofer, J. (2006). The Effect of Napping on Implicit and Explicit Memory Consolidation. Poster presentation at the 18th Congress of the European Sleep Research Society, 12.-16. September, 2006, Innsbruck, Österreich.
- Schabus, M., Hödlmoser, K., Gruber, G., Parapatics, S., Klimesch, W., & Zeitlhofer, Z. (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, 5th - 9th October, 2004.
- Schabus, M., Sauter, C., Hödlmoser, K., Gruber, G., Anderer, P., Parapatics, S., Klösch, G., Klimesch, W., Saletu, B., & Zeitlhofer, J. (2005). Schlafspindeln als Indikator für Gedächtnis und kognitive Leistungsfähigkeit? Freier Vortrag auf der 13. Jahrestagung der Deutschen Gesellschaft für Schlafmedizin, 13.-15. October 2005, Berlin, Deutschland.
- Schabus, M., Hödlmoser, K., Gruber, G., Anderer, P., Parapatics, S., Sauter, C., Klösch, G., Klimesch, W., Saletu, B., & Zeitlhofer, J. (2005). Sleep spindle activity in the human EEG and their interaction with 'general learning abilities'. Oral presentation at the World Association of Sleep Medicine First Congress, 15.-18. October 2005, Berlin, Deutschland.
- Stadler, W., Schabus, M., Hödlmoser, K., Gruber, G., Parapatics, 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. Poster presentation at the WASM, First Congress, 15.-18. October 2005, Berlin, Deutschland.

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

CONFERENCES / WORKSHOPS

- July 2009 “Neurobiologie der Psychotherapie”, Paracelsus Medizinische Privatuniversität Salzburg, 3.-5. July, 2009, Salzburg, Austria.
- June 2009 23rd Annual Meeting of the Associated Professional Sleep Societies, LLC (APSS), 6.-11. June, 2009, Seattle, Washington, USA.
- May 2009 8th Annual Meeting of the Society for the Advancement of Brain Analysis (SABA), 1.-5. May, 2009, Marine Land, St. Augustine, Florida, USA.
- April 2009 Annual Meeting of the ‘Österreichische Gesellschaft für Schlafmedizin und Schlaf-forschung’ (Austrian Sleep Research Association), 24.- 26. April 2009, Steyr, Austria.
- November 2008 ‘Interdisziplinäres Symposium Schlafmedizin’, 7.-8. November, 2008, Hamburg, Germany.
- October 2008 16th Annual Meeting of the ‘Deutsche Gesellschaft für Schlafforschung und Schlafmedizin’; 16.-18. Oktober, 2008, *Kassel*, Germany.
- September 2008 Firnberg-Richter-Workshop, FWF – Österreichischer Wissenschaftsfonds; 29.-30. September, 2008, *Vienna*, Austria.
- September 2008 Hertha Firnberg-Cafe, FWF – Österreichischer Wissenschaftsfonds; 22. September, 2008, *Vienna*, Austria.
- September 2008 18th Congress of the European Sleep Research Society, 9. – 13. September, 2008, *Glasgow*, Scotland, UK.
- July 2008 27th International Congress of Psychology, 20. – 25. July 2008, *Berlin*, Germany.
- March 2008 8th Annual Meeting of the ‘Österreichische Gesellschaft für Psychologie’, 24. – 26. April 2008, *Linz*, Austria.
- April 2008 Masterclass: ‘Cognitive Behaviour Therapy (CBT) for Insomnia’, led by Professor Colin Espie and Dr. Jason Ellis, University of Glasgow, Glasgow Sleep Centre, *Glasgow*, Scotland, UK.
- February 2008 FWF-Coaching-Workshop, FWF – Österreichischer Wissenschaftsfonds; 29. February, 2008, *Salzburg*, Austria.
- February 2008 12th Annual Meeting of the ‘Biofeedback Foundation of Europe’, 19. - 23. February 2008, *Salzburg*, Austria.

- September 2007 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies, 2. - 6. September 2007 (Trainee Award grant: 1500 AUS\$; Talk and Poster Presentation; Best Trainee Presentation), *Cairns*, Australia.
- July 2007 European Sleep Research Society: ESRS-EU Marie Curie Project ‘Training in Sleep Research and Sleep Medicine’, 19.-21. July 2007, *Bertinoro*, Italy.
- March 2007 11th Annual Meeting of the ‘Biofeedback Foundation of Europe’, 27. February - 3. March 2007, *Berlin*, Germany.
- September 2006 European Sleep Research Society: 18th congress, 12. – 16. September, *Innsbruck*, Austria.
- March 2006 European Sleep Research Society: 4th European Teaching Course on Sleep Research and Sleep Medicine, 2.-4. March 2006, *Bertinoro*, Italy.
- February 2006 10th Annual Meeting of the ‘Biofeedback Foundation of Europe’, 15.-18. February 2006, *Wien*, Austria.
- November 2005 Berufsverband Österreichischer Psychologen: Quo Vadis Gesundheitspsychologie, 19.11.2005, *Anif*, Austria.
- October 2005 World Association of Sleep Medicine: First Congress, 15. – 18. October, *Berlin*, Germany.
- March 2005 European Sleep Research Society: European Course in Basic and Clinical Sleep Research, 3. -5. March 2005, *Zürich*, Switzerland.
- April 2004 Annual Meeting of the ‘Austrian Sleep Research Association’, 29. April – 1. May 2004, *Villach*, Austria.
- March 2004 Polysomnography workshop at the ‘Academy for Sleep Medicine’, 26. - 28. March 2004, *Landau*, Germany.

PUBLIC RELATIONS

Lagler, C., & Richter, C. (2008, May 18). Neurofeedback: Besser schlafen durch „Hirntraining“. *Die Presse*, p.22. http://diepresse.com/home/gesundheit/384579/index.do?_vl_backlink=/home/gesundheit/index.do

Besser schlafen. (2008, May 15). *Salzburger Nachrichten*, p. 21.
<http://www.uni-salzburg.at/pls/portal/docs/1/558065.PDF>

Viel besser schlafen lernen. (2009, May 11). *Salzburger Nachrichten, Gesünder Leben*, p.22-21.