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CURRICULUM VITAE

BRIGITTE RÖDER

Biological Psychology and Neuropsychology
University Hamburg
D-20146 Hamburg (Germany)
phone: +49 (0)40 42838 3251
fax: +49 (0)40 42838 6591
e-mail: Brigitte.Roeder@uni-hamburg.de

Birth date: April 12, 1967 in Hermeskeil (Germany)

EDUCATION

- 2002: Habilitation, Psychology; Philipps-University Marburg (Germany)
- 1995: Dr. rer. nat. (Ph.D. equivalent), Psychology; Philipps-University Marburg (Germany)
- 1991: Diplom, Psychology; Philipps-University Marburg (Germany)
- 1986: Abitur; Staatliches Gymnasium Hermeskeil (Germany)

ACADEMIC APPOINTMENTS

- 2010-pres. Full professor (W3), Biological Psychology and Neuropsychology, University of Hamburg
- 2004-pres. Adjunct Professor at the Faculty of Medicine Hamburg-Eppendorf.
- 2003-2010: Full professor (C4), Biological Psychology and Neuropsychology, University of Hamburg
- 2000-2003: Emmy Noether-fellow (German Research Foundation); head of a junior research group at the Psychology Department of the Philipps-University Marburg (Germany)
- 1997-2000: Research and Teaching Associate (F. Rösler); Psychology Department, Philipps-University Marburg (Germany)
- 1995-1997: Postdoc; Department of Psychology and Neuroscience (H.J. Neville); University of Oregon, Eugene (U.S.)
- 1993: Visiting Scholar in the Cognitive Psychophysiology-Laboratory (M.G.H. Coles); University of Illinois, Urbana-Champaign (U.S.)
- 1991-1995: PhD Student, Research and Teaching Associate (F. Rösler); Psychology Department, Philipps-University Marburg (Germany)
- 1989-1991: Student Research Assistant (F. Rösler); Behavioral and event-related potential studies in long-term memory and mental imagery; Psychology

- Department, Philipps-University Marburg (Germany)
- 1987-1989: Student Research Assistant (H.H. Schulze): Studies in haptic perception and design of tactile displays for the blind; Psychology Department, Philipps-University Marburg (Germany)
- 1986-1991: Studies of Psychology, Philipps-University Marburg (Germany)

OTHER PROFESSIONAL ACTIVITIES

- since 2017: Member of the Scientific Advisory Board at the Max Planck Institute for Empirical Aesthetics, Frankfurt/M.
- since 2016: Member of the Review Board of the German Research Foundation (DFG)
- since 2016: Member of the Founding Committee for a Center for Advanced Studies (University of Hamburg, Academy of Sciences in Hamburg)
- since 2016: Member of the board of directors of the Transregio German-Chinese Collaborative Research Centre TRR 169
- since 2015: Member of the Committee for International Issues at the University of Hamburg
- since 2015: Committee for Life Sciences of the German National Academy Leopoldina
- since 2014: Member of the Governors of the German-Israeli Foundation for Scientific Research and Development (GIF)
- since 2014: Member of the faculty board of the Faculty for Psychology and Human Movement Science at the University of Hamburg
- 2012-2017 Regional representative of the German/Austrian constituency of the International Neuropsychology Symposium (INS)
- 02/2014-09/15: Dean of the Faculty for Psychology and Human Movement Science at the University of Hamburg
- 11/2013-03/2014: Founding dean of the Faculty for Psychology and Human Movement Science at the University of Hamburg
- 2013-2015: Member of the selection committee (postdoc and research fellows) of the Alexander von Humboldt Foundation
- 2013-2015: Science Europe, Committee for the Social Sciences
- 2009-2016: Contact person at the University of Hamburg for the German Psychological Society
- 2012-2014: Member of the commission for “European science policy” of the German rector’s conference
- 2011-2014: Member of the board of directors of the Collaborative Research Centre SFB 936
- 2011-2014: Member of the faculty board of the Psychology Department, University Hamburg
- 2008/2009: Dean of the Psychology Department at the University of Hamburg.
- 2007-2008: Vice dean of the Psychology Department at the University of Hamburg
- 2005-2011: Member of the faculty board of the faculty for Education, Psychology and Human Movement, University Hamburg
- 2005-2009: Member of the board of directors of the research focus Neuroscience at the

- University of Hamburg
- 2005-2008: Member of the board of directors of NeuroImageNord (University of Hamburg, Lübeck and Kiel)
- 2004-2011: Vice chairperson of the examination board of the Psychology Department of the University of Hamburg
- 2004-2009: Member of the board for the admission of foreign students; Psychology Department of the University of Hamburg
- 1998: McDonnell Summer Institute in Cognitive Neuroscience, Olympic Valley, CA (U.S.)
- 1997: McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth Medical School, Hanover (U.S.)
- 1995: Summer School on Methods in Physiological Psychology; Ruhr-University Bochum and Heinrich-Heine University Düsseldorf (Germany)
- 1994: European Summer School on Cognitive Neuroscience, Nijmegen (The Netherlands)

HONORS AND AWARDS

- 2014: Gottfried Wilhelm Leibniz-Award (German Research Foundation, DFG)
- 2011: Fellow of the Association for Psychological Science (APS)
- 2011: Teaching award the Dep. of Psychology at the University of Hamburg
- 2010: ERC Advanced Investigators Grant
- 2010: Listed in AcademiaNet.de
- 2010: Member of the International Neuropsychological Symposium (INS)
- 2009: Selected for the training program of the Helmholtz Academy
- 2008: Member of the German Academy of Sciences Leopoldina
- 2007: Member of the Academy of Science in Hamburg
- 2005: Member of the Wilhelm-Wundt Society (WWG)
- 2002: Award for Biology of the Science Academy Göttingen
- 2000: Publication Award of the Biological Psychology section of the German Psychological Society
- 2000: Young Scientist Award of the Federation of the European Societies for Psychophysiology
- 1996: Heinz-Heckhausen Dissertation award of the German Psychological Society

GRANTS

- 2016-2019: German Research Foundation (DFG, TRR 169 Transregio “Crossmodal Learning”, A1): Dynamic adaptation of multisensory processes by cross-modal recalibration. Investigators: Brigitte Röder (University of Hamburg) and Bo Hong (Tsinghua University, Beijing). Project grant: 446.000€.
- 2015-2019: German Research Foundation (DFG; Research Center SFB 936 “Multisite

- communication in the brain”; B1): Tactile-visual interactions for saccade planning during free viewing and their modulation by TMS. Investigators: Tobias Heed and Brigitte Röder. Project grant: 300.000 €.
- 2015-2022: German research Foundation (DFG: Ro 2625/10-1). Leibniz Award. Total Grant 2.5 Mill. €.
- 2015-2018: City of Hamburg excellence program: “Crossmodal learning”. (Investigators: Jianwei Zhang, Stefan Wermter, Andreas Engel, Brigitte Röder). Project grant approximately: 280.000 €.
- 2014-2017: EU. “Audio Bracelet for Blind Interaction” (Coordinator: Monica Gori, Italian Institute of Technology, Genua). Project grant: 300.000 €.
- 2013-2015: German Research Foundation (DFG: Ro 2625/12-1). Initiation and enhancement of international cooperation “Recovery of visual and multisensory functions after visual deprivation in humans”. (PI: Brigitte Röder). Project grant: 17.890 €.
- 2011-2012: German National Academy Leopoldina. Initiative „Neurobiological and psychological factors of socialization: Consequences for economy and education”. Investigators: Frank Rösler, Brigitte Röder. Total grant: 100.000 €.
- 2011-2015: German Research Foundation (DFG; Research Center SFB 936 “Multisite communication in the brain”; B2): Changes of large-scale interactions as a mechanism of adaptive plasticity. Investigators: Brigitte Röder and Andreas Engel. Project grant: 357.400 €.
- 2011-2015: German Research Foundation (DFG; Research Center SFB 936 “Multisite communication in the brain”; B1): Role of vision for shaping cortico-cortical interactions mediating sensorimotor transformations. Investigators: Tobias Heed and Brigitte Röder. Project grant: 177.600 €.
- 2010-2016: European Research Council Advanced investigators grant (ERC-2009-AdG 249425-CriticalBrainChanges). “Development and plasticity of multisensory functions to study the principles of age dependent learning plasticity in humans”. Total grant: 2.396.640 €.
- 2010-2016: German Research Foundation (DFG: GK 1247/2) German-Chinese Graduate Student Training Program; Crossmodal Interaction in Natural and Artificial Cognitive Systems (CINACS, Investigators: Jianwei Zhang (spokesperson), Brigitte Röder, Christian Büchel, Andreas Engel, Christopher Habel, Wolfgang Menzel, Brigitte Röder, 8 professors of Tsinghua University, Beijing). Total grant (German side): 2.412.652 €, Project grant: 220.000 €.
- 2010-2013: EU collaborative grant: COST project TIMELY: Time In Mental activity (Main Investigator: Argiro Vataki, an 20 co-investigators among them Brigitte Röder). Total grant: 210.000 €.
- 2009-2012: German Research Foundation (DFG GU 227/11-1): The role of interhemispheric transfer and cerebral asymmetry for multisensory perception: (Investigator: Onur Güntürkün, Coinvestigator: Brigitte Röder). Project grant: 113.000€.

- 2009-2012: EU collaborative grant: NOMS:Nano-Optical Mechanical Systems (project part of Brigitte Röder) Project grant: 268.700 €.
- 2009-2012: German Research Foundation (DFG FR 2519/1-2): Multisensory plasticity of neuronal word form representations: (Investigators: Claudia Friedrich, Brigitte Röder). Total grant: 212.000 €.
- 2009-2010: BWF Hamburg-excellence initiative: Cluster Neurodapt! (Investigators: Christian Büchel, Brigitte Röder, 14 further investigators). Total grant: 1.843.585 €; project grant: 115.224 €.
- 2009-2010: German Research Foundation (DFG HO 3924/1-2): Exercise and neural plasticity in humans (Investigators: Kirsten Hötting, Brigitte Röder). Total grant: 47.600 €.
- 2008-2011: German Research Foundation (DFG; Research Center SFB 538; E7 Multilingualism): Critical periods for the acquisition of German and of German Sign Language: Is being multilingual of any advantage? Investigator: Brigitte Röder and Barbara Hänel-Faulhaber. Project grant: 379.700 €.
- 2007-2008: BMBF (01GJ0610): Neural foundation of bilingual education in hearing impaired children (Investigators: Claudia Friedrich, Barbara Hänel, Brigitte Röder). Total grant: 81.096 €.
- 2006-2010: German Research Foundation (DFG: GK 1247/1) German-Chinese Graduate Student Training Program; Crossmodal Interaction in Natural and Artificial Cognitive Systems (CINACS, Investigators: Jianwei Zhang (spokesperson), Brigitte Röder (spokesperson Hamburg) Christian Büchel, Andreas Engel, Christopher Habel, Wolfgang Menzel, Brigitte Röder, 8 professors of Tsinghua University, Beijing). Total grant (German side): 1.956.251 € (Project grant: 250.000 €).
- 2006-2009: German Research Foundation (DFG HO 3924/1-1): Exercise and neural plasticity in humans (Investigators: Kirsten Hötting, Brigitte Röder). Total grant: 184.000 €.
- 2005-2011: BMBF (0606/101): Whole head MEG system (Investigators: Andreas Engel, Christian Büchel, Malte Clausen, Günther Deuschl, Detlef Kömpf, Dieter Naber, Brigitte Röder, Manfred Westphal, Hermann Zeumer). Total grant: 2.000.000 €.
- 2005-2008: BMBF (01GW0561): Plasticity and reorganization of object processing in the human brain (Investigators: Brigitte Röder, Christian Büchel, Andreas Engel, Hartwig Siebner) (spokesperson: Brigitte Röder). Total grant: 958.388 €; Project grant: 254.633 €.
- 2005: German Research Foundation (DFG; HBF 102-641): EEG System, Investigator: Brigitte Röder. Total grant: 140.000 €.
- 2005-2008: German Research Foundation (DFG; Research Center SFB 538; E7 Multilingualism): Critical periods for the acquisition of German and of German Sign Language: Is being multilingual of any advantage? Investigator: Brigitte Röder. Project grant: 354.800 €.
- 2005-2008: BMBF: 01GO0510: NeuroImageNord (Investigators: Christian Büchel,

- Günther Deuschl, Andreas Engel, Detlef Kömpf, Dieter Naber, Brigitte Röder, Hermann Zeumer). Total grant: 2.000.000 €.
- 2005-2008: German Research Foundation (DFG: FOR 560): Perception and action; Investigators: Frank Rösler, Brigitte Röder, Siegfried Bien. Project grant: 226.400 €.
- 2004-2007: German Research Foundation (DFG, GRK 885/1): Brain and behavior: Neuronal representation of action (Spoke persons: Karl Gegenfurtner, Frank Bremmer). Total grant: 1.036.833 € (Project grant: 60.000 €).
- 2000-2004: German Research Foundation (DFG: FOR 254/2-1, 2-4, C1): High density EEG recordings during the activation of semantic and episodic memory. Investigator: Frank Rösler, Brigitte Röder, Siegfried Bien.
- 2000-2004: German Research Foundation (DFG, FOR 254/2-1, 2-2, B1): Plasticity of neural representations in blind humans; Investigators: Brigitte Röder, Frank Rösler, Siegfried Bien. Total grant: 200.000 €.
- 2000-2004: Emmy Noether Fellowship of the German Research Foundation (Ro 1226/4-1, 4-2, 4-3): Multisensory perception and compensatory plasticity in blind humans. Investigator: Brigitte Röder. Total grant: 700.000 €.
- 1998-2001: German-American Academic Council Foundation: TransCoop Program: Organization and Reorganization of auditory language functions in sighted and blind People (Brigitte Röder). Total grant: 50.000 DM.
- 1998: German Research Foundation (DFG, Ro 1226/3-1), Travel award (Brigitte Röder). Total grant: 2.400 DM.
- 1995-1997: German Research Foundation (DFG, Ro 1226/1-2), Research Grant: Developmental plasticity („Entwicklungsbedingte Plastizität“) (Brigitte Röder). Total grant: 110.000 DM.
- 1990: Student grant of the Dr. Wolff'sche foundation (Brigitte Röder).
- 1985-1986: Grant for talent High-school students (Brigitte Röder).

PROFESSIONAL SOCIETIES

Cognitive Neuroscience Society (CNS)
 Deutsche Gesellschaft für Psychologie (DGPs)
 Deutsche Gesellschaft für Psychophysiology und ihre Anwendung (DGPA)
 Gesellschaft für Neuropsychologie (GNP)
 International Multisensory Research Forum (IMRF)
 International Neuropsychological Symposium (INS)
 Neurowissenschaftliche Gesellschaft (NWG)
 Society of Neuroscience (SFN)
 Society for Psychophysiological Research (SPR)

MAJOR RESEARCH INTERESTS

Multisensory processes; Neuroplasticity: Functional and structural changes in the brain due to development, perceptual-cognitive training, physical exercising, traumatic events such as sensory deprivation/deafferentation. The focus is on the age dependence of the brain's capacity to change and hence learn. Methods include behavioral and electrophysiological measures as well as structural and functional magnetic resonance imaging (fMRI) and transcranial magnetic stimulation (TMS).

REVIEW ACTIVITY

Journals

Brain
Brain and Cognition
Brain Research
Brain Research Bulletin
BMC Neuroscience
Canadian Journal of Experimental Psychology
Cerebral Cortex
Clinical Neurophysiology
Cognition
Cognitive Brain Research
Current Directions in Psychological Science
Current Biology
Developmental Psychobiology
Developmental Science
Elife
European Journal of Neuroscience
Experimental Brain Research
Frontiers in Integrative Neuroscience
Hearing Research
Infant and Child Development
Journal of Cognitive Neuroscience
Journal of Dental Research
Journal of Neurophysiology
Journal of Neuroscience
Nature
Nature Neuroscience
Neurocase
Neuroimage
Neuropsychologia
Neuroscience
Neuroscience Letters
Perception
PNAS

Psychophysiology
Psychological Bulletin
Psychological Research
Restorative Neurology and Neuroscience
Science
The European Journal of Cognitive Psychology
The Quarterly Journal of Experimental Psychology
Trends in Neuroscience
Trends in Cognitive Sciences
Visual Cognition
Zeitschrift für Neuropsychologie
Zeitschrift für Psychologie

Grants

Alexander von Humboldt Foundation (Germany)
European Research Council (ERC)
Federal Ministry of Education and Research
(BMBF; Germany)
German Research Foundation (DFG, Germany)
German National Academy Leopoldina
Le Fonds de la Recherche Scientifique (FNRS)
Max Planck Society (Germany)
Medical Research Council (U.K.)
Minerva Foundation (Germany)
National Science Foundation (U.S.)
The Wellcome Trust (U.K.)

ORGANIZED SYMPOSIA AND CONFERENCES

INSA-Leopoldina Symposium “The challenge to learn: New approaches to study the problem of stability vs. plasticity in the brain”, in Hyderabad (India), Nov 28-29, 2017 (together with D. Balasubramanian, Jozsef Fiser, Neeraj Jain).

Symposium “Frequency-tagging to understand brain function”, International Neuropsychological Symposium (INS), Sitia (Greece), June 20-24, 2017 (together with Jeason Mattingly and Bruno Rossion).

Invited Symposium “Developmental Cognitive Neuroscience: Where Experimental Psychology, Developmental Psychology and Neuroscience Meet” (together with Erich Schröger). 50th Conference of the German Society of Psychology, Leipzig (Germany), September 18-22, 2016

INSA-Leopoldina Workshop "Brain and Eye", in Hyderabad (India), February 1-2, 2016 (together with D. Balasubramanian).

Lecture of the award winner of the European Science Award of the Körber Foundation (May-Britt and Edvard Moser), Hamburg (Germany), September 4, 2014 (co-organizer).

20th Meeting of the Organization of Human Brain Mapping, Hamburg (Germany), June 8-12, 2014 (member of the local organization board).

Symposium "Multisensory neural maps for body schema, action and perception: development and dysfunction." International Neuropsychological Symposium, INS, Nerja (Spain), June 24-29, 2013 (together with Elisabetta Ladavas, E. & Maria Concetta Morrone).

Symposium "Cortical connectivity of crossmodal interactions". Annual meeting of the German Society of Neuroscience. March 2013, Göttingen (Germany) (together with Till Schneider).

Conference "13th International Multisensory Research Forum", Oxford (U.K.), June 19-June 22, 2012. Member of the organizational board.

Symposium "Neurobiological and psychological determinants of socialisation: Consequences for economy and education II". January 26-27, 2012 (together with Frank Rösler and Ursula Staudinger).

Symposium "Neurobiological and psychological determinants of socialisation: Consequences for economy and education I". December 8-9, 2011 (together with Frank Rösler and Ursula Staudinger).

Conference "11th International Multisensory Research Forum", Liverpool (U.K.), June 16-June 19, 2010. Member of the organizational board.

Conference "10th International Multisensory Research Forum", New York (U.S.), June 29-July 2, 2009. Member of the organizational board.

Annual Meeting of the Wilhelm-Wundt-Society, Hamburg (Germany), May 21-23, 2009.

Workshop series "Rovereto Workshop on Crossmodal Plasticity"; first workshop: "Crossmodal plasticity in deafness and cochlear implant", Rovereto (Italy) August 27-29, 2009. Co-organizer (with Francesco Pavani, University of Trento, Italy; Pascual Baron, University of Toulouse, France).

Second Sino-German Frontiers of Science Symposium (Alexander von Humboldt Foundation; Chinese Academy of Science), Frankfurt (Germany), May 14-17, 2009.

Organizer of the Neuroscience session (together with Xiang Yu, Chinese Academy of Science, Shanghai).

Conference “9th International Multisensory Research Forum”, Hamburg (Germany); July 16-19, 2008. Main organizer.

Conference „Neuroimaging and Psychological Theories of Human Memory”, Marburg, August 2-5, 2006. (with F. Rösler, C. Ranganath, R.H. Kluwe).

Symposium: “Multisensory processing in human cognition.” Annual meeting of the Society of Cognitive Science (*Jahrestagung der Gesellschaft für Kognitions-wissenschaft*), Saarbrücken, March 19-23, 2007.

Symposium: “What sensory deprivation studies tell us about multisensory processing” 5th “International Multisensory Research Forum”, Barcelona (Spain), June 2-5, 2004.

Conference “5th International Multisensory Research Forum”, Barcelona (Spain), June 2-5, 2004. (Member of the organizational board).

Symposium: „Multisensorik und Handlungssteuerung“; Tagung der Experimentell arbeitender Psychologen (TEAP), Giessen (Germany), April 2004 (with J. Trommershäuser, University of Giessen (Germany)).

SELECTED INVITED PRESENTATIONS

(see also abstracts)

Center for Advanced Studies in Dubrovnik (Croatia). Spring School Rethinking the senses. “Experience shapes multisensory functions”, April 4, 2017.

University Jena, Spring School on Cortical Feedback (Germany). “Crossmodal plasticity and learning differ in development and adulthood”, March 8, 2017.

Utrecht University, Experimental Psychology Department (Netherlands), invited keynote “The visual influence on spatial representations”, February 24, 2017.

Durham University, Psychology Department (U.K). “Experience dependent multisensory development“, February 3, 2017.

XXXIV Annual Meeting of Indian Academy of Neurosciences, Manesar (India). Special Lecture “Experience-dependent development of (multi)sensory functions. October 20, 2016.

German Society of Psychology 50th Anniversary Meeting (Leipzig, Germany). Keynote “Sensitive periods in human neuro-cognitive development”, September 22, 2016.

Leibniz-Lecture in Hyderabad (India). “Sensitive phases in human brain development”, Hyderabad, February 3, 2016.

Hertie Stiftung/FAZ Reihe „Hirnforschung, was kannst du?“, Frankfurt (Germany); „Altersabhängige Lernplastizität des menschlichen Gehirns“; September 15, 2015.

IBRO, Rio de Janeiro (Brazil). DFG workshop “Research in Germany”, July 10, 2015.

New Delhi, German House for Research and Innovation (India); first Leopoldina-Leibniz Lecture: “Age-dependent learning plasticity in humans”, January 21, 2015.

New Delhi, National Brain Research Center (India): “Multisensory processing and neuroplasticity”, January 20, 2015.

Pune, ISSA (India). “The role of experience in brain development”. January 15, 2015.

29th Hamburg day of sportmedicine, Hamburg (Germany). “Sport medicine from the perspective of a neuropsychologist”, December 9, 2014.

Delmenhorst, Institute for Advanced Study (Germany): “Age dependent learning plasticity”, November 27, 2014.

Herrenhausen Seminar, Hannover (Germany): “Sensitive periods in humans: The visual deprivation approach”, November 25, 2014.

Universitäts-gesellschaft Hamburg (Germany): “How experience shapes brain and behavior”, October 8, 2014.

University of Leuven (Belgium): “Development, sensitive phases and adult recalibration of multisensory processes”, September 28, 2014.

German National Academy, Annual Meeting in Rostock (Germany): “Multisensory Processing”, September 19, 2014.

Rotary Club Hamburg-Altstadt (Germany): “Sensible Phasen in der menschlichen Gehirnentwicklung”, September 1, 2014.

University of Hamburg (Germany): “Sensible Phasen in der menschlichen Gehirnentwicklung”, May 14, 2014.

Osnabrück Computational Cognitive Alliance Meeting (Germany): “Plasticity of multisensory functions: Spatial recalibration, emotional and motivational influences”, Keynote, May 7, 2014.

Summerschool German-Chinese graduate school, Beijing (China): “Developmental plasticity of multisensory functions”, September 9, 2013.

Chinese Academy of Science, Institute for Automation, Beijing (China): “Plasticity of multisensory functions”, September 9, 2013.

Sino-German Workshop, Hamburg (Germany): „Why do critical periods exist in development“, September, 2, 2013.

International Neuropsychological Symposium, Nerja (Spain): “The role of experience in multisensory development and processing” June 26, 2013.

Central European University Budapest (Hungary): “Developmental and adult plasticity of multisensory function”, May 22, 2013.

Radboud University Nijmegen (The Netherlands): “Multisensory processing: development, sensitive phases and adult recalibration”, May 14, 2013.

Sixth Annual Champalimaud Research Symposium, Hyderabad (India). Invited presentation: “Functional recovery after cataract surgery shows age dependent neural plasticity in humans”, January 30, 2013.

University for Music and Theater, Rostock. Invited presentation. “Kompensatorische Lernplastizität bei blinden Menschen”, January, 12, 2013.

University of Hamburg, Medical Faculty. “Altersabhängige Lernplastizität untersucht am Modell der sensorischen Deprivation beim Menschen”, August 17, 2012.

Fifth Annual Champalimaud Research Symposium, Hyderabad (India). Invited presentation: “Functional recovery of visual and multisensory functions after a transient phase of total congenital blindness”, January 30, 2012.

German National Academy Leopoldina. Potsdam, Initiative “Neurobiological and psychological factors of socialization: Consequences for economy and education. “Critical periods”, December 8, 2011.

Jacobs University Bremen: “Crossmodally generated shifts of auditory localization”, December 6, 2011.

German Rector’s conference, Frankfurt: “ERC advanced investigators grant”, October 10, 2011.

University of Zürich, Neuropsychology: “The experience dependence of multisensory development”, May 18, 2011.

Ludwig-Maximilians University München, Psychology: “Crossmodal generated shifts of auditory localization”, February 9, 2011.

Lübeck, 23rd Workshop for early interventions in blind individual: Keynote: “Compensatory plasticity in the blind”, January 21, 2011.

University of Edinburgh, Center for Cognitive and Neural Systems: „Reference Frames for multisensory interactions“, November 25, 2010.

International Conference on Parietal lobe Functions, Amsterdam: “Crossmodally generated shifts of auditory localization”, September 21, 2010.

Bewegung und Leistungssport, Hamburg: Keynote “Sport und Kognition, September 2, 2010.

Body Representation Workshop, London: invited theme talk: “Development plasticity of reference frames for touch”, March 29, 2010.

Max Planck Institute for Human Cognition and Brain Sciences: “What do we learn from multisensory processes about age dependent neural plasticity in humans?”, July 17, 2009.

Max-Planck Institute (Center for Lifespan Psychology), Berlin: “The visual deprivation approach to study (multi)sensory development in humans”, March 24, 2009.

Tactile Research Group; Chicago: “Spatial reference frames for tactile perception”, November 13, 2008.

Les Diablerets, Lemnic-Neurosciences Annual Meeting: Keynote: „Development and plasticity of multisensory functions“, September 12, 2008.

University of Saarbrücken: „Multisensory space“, May 21, 2008.

Chinese-German Frontiers in Science, Beijing: “What is Neuroplasticity?”, March 13, 2008.

Chinese Academy of Science, Shanghai: “Multisensory processing and the sensory deprivation approach”, March 10, 2008.

University of Frankfurt: “The critical role of developmental vision for (multi)sensory perception”, December 6, 2007.

Polytechnische Gesellschaft, Frankfurt: “Wie Blinde den Verlust eines Sinnessystems kompensieren”, October 2, 2007

University of Oldenburg: “Multisensory functions are shaped by developmental vision”,

July 16, 2007.

University of Oxford: "Developmental vision shapes multisensory processes", May 8, 2007.

University of Hamburg (21. Hamburger Tage der Sport und Bewegungsmedizin): „Bewegung und Neuroplastizität“, April 14, 2007.

Nürnberg („Turm der Sinne“): "Sensory perception and language comprehension in the blind: the plastic brain", September 23, 2006.

Martin Luther University Halle-Wittenberg: "Interaktionen der Sinnessysteme und crossmodale Kompensation", July 4, 2006.

Ärztchamber Hamburg: "Kompensatorische Plastizität des Gehirns", April 11, 2006.

University of Würzburg: "How the senses interact and how vision influences multisensory perception", Januar 16, 2006.

Verband der Blinden- und Sehbehindertenpädagogen/innen, Hannover: "Wie Blinde sehen – Neuronale Grundlagen kompensatorischer Leistungen bei blinden Menschen", December 10, 2005.

Dartmouth College (Hanover, U.S.), "Summer School in Cognitive Neuroscience": "What we learn from the blind about neuroplasticity, July 29, 2005.

University of Karlsruhe: Study Centre for the Visual Impaired: "How the blind perceive the world" December 13, 2004.

University of Lausanne; University Hospital, Neuropsychology: "Multisensory processes and their fate in the blind"; November 18, 2004.

University of Konstanz: "The blind brain", October 22. 2004.

University of London, Institute for Cognitive Neuroscience: "What we learn from the blind about multisensory processes", October 4, 2004.

Max-Planck-Institute for Psychology, Munic: "Multisensory perception and cross-modal compensation", December 10, 2003.

University Bochum, Graduate School Neuroscience: "Blindness: A Model to study Neuronal Plasticity" November 17, 2003.

Potsdam, Emmy-Noether lecture "Wie Blinde den Verlust eines Sinnessystems kompensieren", July 19, 2003.

Justus-Liebig University Giessen, Experimental Psychology: "Multisensory perception and compensatory plasticity in the blind", April 18, 2003.

University Tübingen, Cognitive Neurology: "Multisensory representations of space and the contribution of visual", January 23, 2003.

Max-Planck-Institute for Biological Cybernetics, Tübingen: "Spatial cognition without vision", November 22, 2002.

Wellcome Department of Imaging Neuroscience, London (U.K.) "Compensatory changes in perceptual-cognitive functions as a consequence of visual deprivation in humans", November 8, 2002.

Tamagawa University, Brain Science Research Center (Japan): "Compensatory changes in perceptual and higher cognitive functions as a consequence of visual deprivation in humans", August 2, 2002.

Tsukuba University, Neuroscience Research Institute (Japan): "Compensatory plasticity in congenitally blind humans", July, 23, 2002.

Philipps-University Marburg, Studium Generale: "Ist bei Blinden alles anders? Wie das Gehirn den Ausfall einer Sinnesmodalität kompensiert, June 19, 2002.

Max-Planck Institute for Brain Research, Frankfurt: "What we learn from the blind about plasticity of auditory functions", May 9, 2002.

University of Bremen: "Kompensatorische Plastizität bei blinden Menschen", December 10, 2001.

Hanse Wissenschaftskolleg Delmenhorst: "The principles of brain plasticity", March 8, 2001.

University of Greifswald; Psychology Department: "Compensatory plasticity in the blind", December 13, 2000.

Otto-von-Guericke-University Magdeburg; Psychology Department: "Auditory compensation in blind humans", July 4, 2000.

University of Braunschweig; Psychology Department: "Compensatory plasticity in blind humans", November 23, 1999.

Johann-Wolfgang Goethe University Frankfurt, Psychophysiology Department III: "Neuroplasticity in blind humans". June 23, 1999.

Heinrich-Heine University Düsseldorf: Psychophysiological Department: "Electrophysiological indices of neuronal plasticity in blind humans", January 29, 1999.

University of Marburg, Neuroscience group: "Neural Plasticity in blind humans", January 14, 1999.

University of Leipzig: "Behavioral and electrophysiological indices of compensatory memory performance in blind compared to sighted adults". December 2, 1998.

University of Oregon, Eugene, Institute of Cognitive & Decision Sciences - Colloquium: "Event-related potentials indicating neural plasticity in blind human subjects", Eugene, December 2, 1996.

University of Washington, Seattle: "Slow and phasic event-related potentials in blind and sighted human subjects", January 1996.

University of Illinois, Urbana-Campaign: "Haptic mental rotation in blind and sighted human subjects", September 1993.

Teaching Experience

(a) Psychology Department, Philipps-University Marburg (Germany):

Courses: (1) Experimental Psychology ("ERP-correlates of subjective expectancy"), (2) Experimental Psychology ("Haptic Memory"), (3) Experimental Psychology ("Short-term Memory"), (4) Experimental Psychology ("Image Scanning"), (5) Experimental Psychology ("Visual spatial attention"), (6) Experimental Psychology ("False Memory") (7) "Distortion of egocentric reference frames", (8) "Attention to motion".

Seminars: (1) "Mental workload in the working environment", (2) "Attention and mental workload", (3) "Marketing psychology and psychology of advertising", (4) "Topics in Psychophysiology", (5) "Plasticity of cortical representations", (6) "Brain

development and plasticity“, (7) “Perception and Attention“, (8) “Auditory Perception“, (9) “Introduction to Psychology“, (10) “Developmental Cognitive Neuroscience“, (11) “Haptic memory“, (12) “Psychology of attention“, (13) “Introduction to the Cognitive Neurosciences“, (14) “Multisensory perception“.

Lectures: (1) “Perception“, (2) “Introduction to the Cognitive Neurosciences“.

(b) Psychology Department, University of Hamburg (Germany):

Lectures: (1) “Introduction to the Cognitive Neurosciences“, (2) “Biological Psychology“, (3) “Methods in Cognitive Neuroscience“, (4) “Developmental Cognitive Neuroscience“.

Courses: (1) “Introduction to the Cognitive Neurosciences“, (2) “Experimental demonstrations“, (3) “Experimental methods“.

Seminars: (1) “Cognitive Neuroscience“, (2) “Neuroplasticity“, (3) “How we perceive the world, speak, think and act“, (4) “Cognitive Neuroscience and aging“, (5) Doctoral Seminar, (6) “Biological Psychology“, (7) “Neuroscience of Attention“, (8) “Multisensory processes“, (9) “Developmental Cognitive Neuroscience“, (10) Science seminar.

(c) Psychology Department, University of Oregon, Eugene (U.S.):

Seminars: (1) “Brain development“.

(d) Summer and Spring schools (see talks)

PhD students and Postdocs

Finished Doctoral Theses: Stephanie Badde, Angelika Becker (co-supervision), Anton Beer, Patrick Bruns, Ingo Fleischer, Julia Föcker, Matthias Gondan, Kirsten Hötting, Kathrin Holzschneider, Anne Kriegseis, Kathrin Lange, Pia Ley, Mario Maiworm, Valeria Occelli (co-supervision), Lisa Putzar, Chiara Renzi (co-supervision), Tobias Schicke, Ulrike Schild (co-supervision), Thomas Schröder, Jonathan Schubert (co-supervision), Kai Sieben (co-supervision) Nils Skotara, Ralf Sürig, Oliver Stock (co-supervision), Ralf Sürig, Agnes Villwock, Zhenzhu Yue (co-supervision), Dan Zhang (co-supervision), Liang Zhang (co-supervision).

Current Doctoral Students: Malte Bieler (co-supervision), Ineke Fengler, Marco von Frieling, Helene Gudi, Marlene Hense, Cordula Hölig (co-supervision), Alexander Kramer, Laura Kuhne, Madita Linke, Ann-Kathrin Rogge, Sophie Rohlf, Suddha Sourav, Anna-Lena Stroh, Björn Zierul, Veronika Zweckerl.

Past Postdocs: Steph Badde, Rakesh Balachandar, Davide Bottari, Thérèse Collins, Giulia Dormal, Claudia Friedrich, Margriet Groen, Boukje Habets, Barbara Hänel-

Faulhaber, Tobias Heed, Kirsten Hötting, Elena Nava, Krista Overvliet, Ralf Sürig, Sina Trautmann.

Current Postdocs: Patrick Bruns, Maria Guerreiro, Deepika Kommanapalli, David Magezi, Kabilan Pitchaimuthu, Jonathan Tong.

PUBLICATIONS

Journals

2017

- P152. Rogge, A-K., Röder, B., Zech, A., Nagel, V. Hollander, K., Braumann, K-M., & Hötting, K. (2017). Balance training improves memory and spatial cognition in healthy adults. *Scientific Reports*, 7, Article 5661, 1-10. DOI:10.1038/s41598-017-06071-9.
- P151. Bieler, M., Sieben, K., Schildt, S., Röder, B., & Hanganu-Opatz, I. (2017). Visual-tactile processing in primary somatosensory cortex emerges before cross-modal experience. *Synapse*, doi: 10.1002/syn.21958.
- P150. Habets, B., Bruns, P., & Röder, B. (2017) Experience with crossmodal statistics reduces the sensitivity for audio-visual temporal asynchrony. *Scientific Reports*, DOI:10.1038/s41598-017-01252-y.
- P149. Zhang, D., Hong, B., Gao, S., & Röder, B. (2017) Exploring the temporal dynamics of sustained and transient spatial attention using steady-state visual evoked potentials. *Experimental Brain Research*, 235(5), 1575-1591.
- P148. Hölig, C., Föcker, J., Röder, B. & Büchel, C. (2017). Activation in the angular gyrus and in the pSTS is modulated by face primes during voice recognition. *Human Brain Mapping*, 38(5), 2553–2565.

2016

- P147. Bottari, D. Troje F.N., Ley, P., Hense M., Kekunnaya R., & Röder B. (2016). Sight restoration after congenital blindness does not reinstate alpha oscillatory activity in humans. *Scientific Reports*, 6, doi: 10.1038/srep 24683.
- P146. Guerreiro, M. J. S., Putzar, L., & Röder, B. (2016). Persisting cross-modal changes in sight recovery individuals modulate visual perception. *Current Biology*, 26(22), 3096-3100.
- P145. Guerreiro, M., Putzar, L., & Röder, B. (2016). The effect of early visual deprivation on the neural bases of auditory processing. *Journal of Neuroscience*, 36(5), 1620-1630.
- P144. Heed, T., Backhaus, J., Röder, B., & Badde, S. (2016). Disentangling the external reference frames relevant to tactile localization. *PLoS One*, doi: 10.1371/journal.pone.0158829.
- P143. Hötting, K., Schickert, N, Kaiser, J., Röder, B., Schmidt-Kassow, M. (2016). The effects of acute physical exercise on memory, peripheral BDNF, and cortisol in young adults". *Neural Plasticity*, doi: 10.1155/2016/6860573.
- P142. Juravle, G., Heed, T., Spence, Ch., & Röder, B. (2016). Neural correlates of tactile perception during pre-, peri-, and post-movement. *Experimental Brain Research*, 234(5), 1293-1305.

2015

- P141. Badde, S., Röder, B., & Heed, T. (2015). Flexibly weighted integration of tactile reference frames. *Neuropsychologia*, *70*, 367-374.
- P140. Badde, S., Heed, T., & Röder, B. (2015). Integration of anatomical and external response mappings explains crossing effects in tactile localization: A probabilistic modeling approach. *Psychonomic Bulletin & Review*, doi: 10.3758/s13423-015-0918-0.
- P139. Bottari D., Troje N.F., Ley P., Hense M., Kekunnaya R. and Röder B. (2015). The neural development of the biological motion processing system does not rely on early visual input. *Cortex*, *7*, 359-367.
- P138. Bruns, P. & Röder, B. (2015). Sensory recalibration integrates information from the immediate and the cumulative past. *Scientific Reports*, *5*, 12739; doi: 10.1038/srep12739.
- P137. Fengler, I., Nava, E., & Röder, B. (2015). Short-term visual deprivation reduces interference effects of task-irrelevant facial expressions on affective prosody judgments. *Frontiers in Integrative Neuroscience* 05/2015.
- P136. Föcker, J., Best, A., Hölig, C., & Röder, B. (2015). Neural plasticity of voice processing: Evidence from event-related potentials in late-onset blind and sighted individuals. *Restorative Neurology and Neuroscience*, *33*, 15-30.
- P135. Guerreiro, M., Putzar, L., & Röder, B. (2015). The effect of early visual deprivation on the neural bases of multisensory processing, *Brain*, *138*, 1499-1504.
- P134. Guerreiro, M., Erfort, M.V., Henssler, J., Putzar, L., & Röder, B. (2015). Increased visual cortical thickness in sight-recovery individuals. *Human Brain Mapping*, *36*, 5265-5274.
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- P132. Heed, T., Möller, J., & Röder, B. (2015). Movement induces the use of external spatial coordinates for tactile localization in congenitally blind humans. *Multisensory Research*, *28*, 173-194.
- P131. Ley, P., Steinberg, U., Hanganu-Opatz, U., & Röder, B. (2015). ERP evidence for a dynamic (re-)weighting of somatotopic and external coordinates of touch during visual-tactile interactions. *European Journal of Neuroscience*, *41*, 1466-1474.
- P130. Schubert, J.T.W., Buchholz, V., Föcker, J., Röder, B., Heed, T. (2015). Oscillatory activity reflects differential use of spatial reference frames by sighted and blind individuals in tactile attention. *NeuroImage*, *117*, 417-428.
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- P122. Hölig, C., Föcker, J., Best, A., Röder, B., & Büchel, C. (2014). Crossmodal plasticity in the fusiform gyrus of late blind individuals during voice recognition. *NeuroImage*, 103, 374-382.
- P121. Hölig, C., Föcker, J., Best, A., Röder, B., & Büchel, C. (2014). Brain systems mediating voice identity processing in blind humans. *Human Brain Mapping*, 35 (9), 4607-4619.
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- P111. Hötting, K., Holzschneider, K., Stenzel, A., Wolbers, T., & Röder, B. (2013). Effects of a cognitive training on spatial learning and associated functional brain activations. **BMC Neuroscience**, *14*, 73.
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- P109. Kassuba, T., Klinge, C., Hölig, C., Röder, B., & Siebner, H. (2013). Vision holds a greater share in visuo-haptic object recognition than touch. **NeuroImage**, *65*, 59-68.
- P108. Kassuba, T., Menz, M., Röder, B., Siebner, H. (2013). Multisensory interactions between auditory and haptic object recognition. **Cerebral Cortex**, *23*, 1097-1107.
- P107. Ley, P., Bottari, D., Shenoy, H.S., Kekunnaya, R., Röder, B. (2013). Partial recovery of visual-spatial remapping of touch after restoring vision in a congenitally blind man. **Neuropsychologia**, *51*, 1119-1123.
- P106. Nava, E., Güntürkün, O., Röder, B. (2013). Experience-dependent emergence of functional asymmetries. **Laterality**. *18* (4), 407-415.
- P105. Ocklenburg, S., Wolf, C.C., Heed, T., Ball, A., Cramer, H., Röder, B., Güntürkün, O. (2013) Multisensory integration across the menstrual cycle. **Frontiers in Psychology**, *4*, 666.
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- P103. Röder, B., Ley, P., Shenoy, H.S., Kekunnaya, R., & Bottari, D. (2013). Sensitive periods for the functional specialization of the neural system for human face processing. **Proceedings of the National Academy of Science U.S.A.**, *PNAS*, *110*(42), 16760-16765.
- P102. Röder, B., Pagel, B., & Heed, T. (2013). The implicit use of spatial information develops later for crossmodal than for intramodal temporal processing. **Cognition**, *126*, 301-306.
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- P100. Föcker, J., Best, A., Hölig, C., & Röder, B. (2012). The superiority in voice processing of the blind arises from neural plasticity at sensory processing stages. *Neuropsychologia*, **50** (8), 2056-2057.
- P99. Heed, T., Backhaus, J., & Röder, B. (2012). Integration of hand and finger location in external spatial coordinates for tactile localization. *Journal of Experimental Psychology: Human Perception and Performance*, **38** (2), 386-401.
- P98. Hötting, K., Schauenburg, G., & Röder, B. (2012). Long-term effects of physical exercise on verbal learning and memory in middle-aged adults: Results of a one-year follow-up study. *Brain Sciences*, **2**(3), 332-346.
- P97. Hötting, K., Reich, B., Holzschneider, K., Kauschke, K., Schmidt, T., Reer, R., Braumann, K.-M., & Röder, B. (2012). Differential cognitive effects of a cycling vs. stretching/coordination training in middle-aged adults. *Health Psychology*, **31** (2), 145-155.
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- P93. Occelli, V., Bruns, P., Zampini, M., Röder, B. (2012). Audiotactile integration is reduced in congenital blindness in a spatial ventriloquism task. *Neuropsychologia*, **50**(1), 36-43.
- P92. Putzar, L., Gondan, M., & Röder, B. (2012). Basic multisensory functions can be acquired after congenital visual pattern deprivation in humans. *Developmental Neuropsychology*, **37**(8), 697-711.
- P91. Röder, B., & Manzey, D. (2012). Editorial: How to reconcile brain and mind. *Psychological Research*, **76**, 129-130.
- P90. Schepers, I., Hipp, J., Scheider, T., Röder, B., & Engel, A. (2012). Functionally specific oscillatory activity correlates between visual and auditory cortex in the blind. *Brain*, **135** (pt3), 922-934.
- P89. Schild, U., Röder, B., Friedrich, C. (2012). Neuronal spoken word recognition: The time course of processing variation in the speech signal. *Language & Cognitive Processes*, **27**(2), 159-183.
- P88. Skotara, N., Kügow, M., Salden, U., Hänel-Faulhaber, B., & Röder, B. (2012). The influence of language deprivation in early childhood on L2 processing: An ERP comparison of deaf native signers and deaf signers with a delayed language acquisition. *BMC Neuroscience*, **13**, 44.

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- P84. Föcker, J., Hölig, C., Best, A., & Röder, B. (2011). Crossmodal interaction of facial and vocal person identity information: An event-related potential study. *Brain Research*, 1385, 229-245.
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- P80. Maiworm, M., & Röder, B. (2011). Suboptimal auditory dominance in audiovisual integration of temporal cues. *Tsinghua Science and Technology*, 16 (2), 121-132.
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- P74. Bruns, P., & Röder, B. (2010). Tactile capture of auditory localization: An event-related potential study. *European Journal of Neuroscience*, 31, 1844-1857.
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- P71. Collins, T., Heed, T., & Röder, B. (2010). Eye-movement-driven changes in the perception of auditory space. *Attention, Perception & Psychophysics*, 72 (3), 736-746.
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- P65. Klinge, C.E., Eippert, F., Röder, B., Büchel, C. (2010). Cortico-cortical connections mediate primary visual cortex BOLD responses to auditory stimulation in the blind. *Journal of Neuroscience*, 30 (38), 12798-12805.
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- P63. Putzar, L., Hötting, K., & Röder, B., (2010). Early visual deprivation affects the development of face recognition and audio-visual speech perception. *Restorative Neurology and Neuroscience*, 28 (2), 251-257.
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- P58. Friedrich, C.K., Schild, U. & Röder, B. (2009). Electrophysiological indices of word fragment priming allow characterizing neural stages of speech recognition. ***Biological Psychology***, 80(1), 105-13.
- P57. Hötting, K., Friedrich, C., & Röder, B. (2009). Neural correlates of crossmodally induced changes in tactile awareness. ***Journal of Cognitive Neuroscience***, 21 (12), 2445-2461
- P56. Hötting, K., & Röder, B. (2009). Auditory and audio-tactile processing in congenitally blind humans. ***Hearing Research***, 258, 165-174.
- P55. Pagel, B., Schicke, T., & Röder, B., (2009). Change of reference frame for tactile localization during child development. ***Developmental Science***, 12(6), 929-937.
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- Sieben, K., Röder, B., & Hanganu-Opatz, I. (2013). The development of cross-modal processing in the rat primary somatosensory cortex. *Congress of the German Neuroscience Society, Göttingen, Germany, March 13-16, 2013.*

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- Nava, E., Güntürkün, O. & Röder, Brigitte (2011). Blind kiss: Lateralised behaviour in blind individuals. *Munich Multisensory Perception Symposium, Holzhausen, Germany, June 24.-26, 2011.*

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- Heed, T., Röder, B., Collins, T. (2010). Multisensory influences of motor-related reference frames. *International Multisensory Research Forum (IMRF), June 16-19, 2010, Liverpool, Great Britain.*
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- Kassuba, T., Klinge, C.E., Hölig, C., Menz, M., Ptito, M., Röder, B., & Siebner, H.R. (2010). Left fusiform gyrus integrates visual, auditory and tactile cues of manipulable objects. *40th Annual Meeting of the Society for Neuroscience, November 13 – 17, 2010, San Diego, USA.*
- Kügow, M., Skotara, N., Salden, U., Hänel-Faulhaber, B. & Röder, B. (2010). Bimodal bilingualism: Aspects of the functional organization of languages as revealed by German/German Sign Language bilinguals: An event-related potential study. *MIMS (Multilingual Individuals and Multilingual Societies), October 6 – 8, 2010, Hamburg, Germany.*
- Occelli, V., Bruns, P., Zampini, M., & Röder, B. (2010). Audiotactile spatial ventriloquism in congenitally blind, late blind and sighted individuals. *Poster presented at the 11th International Multisensory Research Forum (IMRF), June 16-19, 2010, Liverpool, UK.*
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- Röder, B. & Hötting, K. (2010). Bewegung und kognitive Leistungsfähigkeit. *8. Gemeinsames Symposium der dvs-Sektionen Biomechanik, Sportmotorik und Trainingswissenschaft, September 2 - 4, 2010, Hamburg, Germany.*
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