

<u>BIOGRAPHICAL</u>	
BIRTH DATE:	May 11, 1945
BIRTH PLACE:	Ottau, Czechoslovakia
HOME ADDRESS:	Brunnenstr. 23 D-72116 Mössingen
HOME PHONE:	07473 - 21593
CITIZENSHIP:	German
OFFICE:	Universität Tübingen Institut für Medizinische Psychologie und Verhaltensneurobiologie Silcherstr. 5 D-72076 Tübingen IRCCS - Ospedale San Camillo Istituto di Ricovero e Cura a Carattere Scientifico Via Alberoni 70, 30126 - Venezia - Lido
OFFICE PHONE:	07071 - 297 4219
OFFICE FAX:	07071-29 5956
E-MAIL:	niels.birbaumer@uni-tuebingen.de
POSITION:	Full Professor of Behavioral Neurobiology and Medical Psychology
LANGUAGES:	English, Italian (both fluent)
<u>EDUCATION AND TRAINING</u>	
<u>Education</u>	
1963-1969	University of Vienna, Psychology
1969	Ph.D., University of Vienna, (Psychology)
1975	University docent (Privatdozent), University of Munich, (venia legendi in Physiological Psychology)
<u>Internships</u>	
1965-1967	Institute of Psychiatry, Vienna

1969	Max-Planck-Institute of Psychiatry, Munich
1970	Middlesex Hospital, London, Department of Psychiatry
<u>APPOINTMENTS AND POSITIONS</u>	
1967-1970	Research Associate, Department of Psychology, University of Vienna (Austria)
1970-1975	Wissenschaftlicher Angestellter (assistant professor), Institute of Psychology, University of Munich, Dept. of Clinical Psychology
1975-1993	Professor (C4), Department of Clinical and Physiological Psychology, University of Tübingen, Faculty of Social and Behavioral Science
1979-1980, 9/1981-1/1982	Invited Visiting Professor at the University of Madison, Wisconsin, Institute of Psychology
8/1981	Offer from the University of Hamburg for a C4 (Full) Professorship in Clinical Psychology (declined)
1986-1988	Full Professor of Psychology, The Pennsylvania State University, Department of Psychology, USA
1993-present	Professor and Director, Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen, Faculty of Medicine. Director of the Magnetoencephalography (MEG)-Center
1986-1988	Faculty Member, The Milton S. Hershey Medical Center, The Pennsylvania State University, Dept. of Behavioral Sciences, USA
1986-present	Adjunct Full Professor of Psychology, Dept. Psychology, The Pennsylvania State University, University Park, USA
Spring semester 1989	Invited Visiting Full Professor of Behavioral Neuroscience and Psychology, University of Hawaii, Honolulu, USA
1989-2001	Professor of Clinical Psychophysiology at the University of Padova, Italy (Professore straniero)
1995	Offer of a Full Professorship at the Charité-Clinic of the Humboldt-University Berlin (declined)
2001-2006	Professor of Neuroscience at the Faculty of Physics, Center for Cognitive Neuroscience, University of Trento, Italy

2003	Offer for Davimos Eminent Scholar Chair in Brain Sciences, University of Florida, USA (declined)
2005-2007	Visiting Professor at the National Institutes of Health (NIH), NINDS, Cortical Physiology Unit, Bethesda, MD, USA
since 2008	Conseliere, IRCCS Ospedale San Camillo, Istituto di Ricovero e Cura a Carattere Scientifico, Venezia-Lido, Italien
9/2008-4/2009	Invited Visiting Professor, Complutense University, Madrid and Universitat delle Balears, Mallorca, Department of Psychology, Spain
<u>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</u>	
Society for Neuroscience; American Psychological Association (APA), Fellow; APA Divison 6: Comparative and Physiological Psychology; Fellow, APA Division 1: Society for General Psychology; American Association for the Advancement of Science (AAAS); Society for Psychophysiological Research (SPR); The Academy of Behavioral Medicine Research; The Society of Behavioral Medicine (SBM); Deutsche Gesellschaft für Psychophysiologie und ihre Anwendungen, DGPA, (German Society for Psychophysiological Research); Deutsche Gesellschaft für Psychologie, DGfPs, Honorary member (German Society of Psychology); Neurowissenschaftliche Gesellschaft (German Society for Neuroscience, Board member, Vorstandsmitglied 2003-2009); Member of the Claude Bernard Club (USA) (founded by John Basmajian and M.B. Serman); Deutsche Gesellschaft für Medizinische Psychologie; Society for Applied Neuroscience (Vice-president)	
<u>HONORS AND AWARDS</u>	
1988-1996	Elected main area reviewer (Fachgutachter) for physiological psychology and general psychology of the German Research Society (DFG)
1984-1985	President of the European Association for Behavior Therapy (EABT)
1985	Roemer Award for outstanding scientific achievements in Psychosomatic Medicine (DKPM)
1986-present	Fellow, The Academy of Behavioral Medicine Research
1986-present	Fellow, The Society of Behavioral Medicine
1992-present	Fellow, APA, Divison 6: Comparative and Physiolocial Psychology

1987-1990	Board member, Experimental Division, Biofeedback Society of America, Association for Applied Psychophysiology and Biofeedback (AAPB)
1987-1990 1995-1998	Board of directors, Society for Psychophysiological Research (SPR)
1984-1999	Member of the board of a special interdisciplinary research program (Sonderforschungsbereich) of the German Research Society (DFG) "Neurobiology of Behavior and its Pathology"
1992-1996	Fachauschußvorsitzender der Deutschen Forschungsgemeinschaft (DFG) für Psychologie (Main area reviewer of Psychology of the German Research Society DFG)
1992 and 1999	Award of the Deutsche Gesellschaft zum Studium des Schmerzes for Research on the Treatment of Chronic Pain (together with H. Flor) and Experiments on Neural Pain Mechanisms
Since 1992	Christoph-Dornier-Stiftung für Klinische Psychologie (Scientific Board, Board of Directors)
1993-present	Full Member (Ordentliches Mitglied) of the Akademie der Wissenschaften und der Literatur, Mainz
1994	Nordmark Neuropharmaka Award for Behavioral Research in Parkinson's disease
1995	Gottfried Wilhelm Leibniz Award of the Deutsche Forschungsgemeinschaft (DFG)
1995	Psychologie-Preis of the Deutsche Gesellschaft für Psychologie (DGfP) and the Christoph-Dornier-Stiftung
1996	Distinguished Scientist Award of the American Association for Applied Psychophysiology and Biofeedback
1999	Honorary Citizen of Dolcé, Peri, Volargne (Verona, Italy)
2000	Forschungspreis 2000 für Neuromuskuläre Erkrankungen (Award for Research in Neuromuscular Diseases) of the Deutsche Gesellschaft für Muskelkranke e.V.
2000	Sertürner Preis, Mundipharma, for research on pain treatment with opiates
2000	Wilhelm-Wundt-Medal of the German Society of Psychology (DGfP, Deutsche Gesellschaft für Psychologie)

2000-2008	Member of the Scientific Board of the Max-Planck-Institute for Biological Cybernetics in Tübingen
2001	Albert-Einstein-World-Award of Science of the World Cultural Council
2003-2009	Member of the Board (Cognitive Neuroscience): Neurowissenschaftliche Gesellschaft (Society for Neuroscience, Germany)
1993-present	Board Member of the NIMH Center for the Study of Emotion and Attention, Univ. of Florida, Gainesville, USA
2004-2005	President of the Society for Psychophysiological Research (SPR)
2003-present	Full Member (Ordentliches Mitglied) of the Deutsche Nationale Akademie der Wissenschaften, Leopoldina, German National Academy
2008-2016	Main Area Reviewer for „Fachkollegium Neurowissenschaft“ in Cognitive Neuroscience of the Deutsche Forschungsgemeinschaft (DFG)
2009-present	Advisory Board, Sphinx Organisation for African-American Classical Music, Detroit, USA
2009	Distinguished Scientist Award of the Society of Psychophysiological Research (SPR)
2010	Fellow, Association for Psychological Science (APS)
2010	Honorary doctorship (Dr. h.c.), University of Jena
2010	Helmholtz-Award of the Berlin Brandenburgische Akademie der Wissenschaften
2012	Ehrenpreis der Fürst Donnersmarck-Stiftung
2012	Honorary doctorship (Dr. h.c.), Universidad Complutense, Madrid
2012	Honorary doctorship (Dr. h.c.), Paris Lodron University, Salzburg
2013	Aristotle Prize 2013, EFPA (European Federation of Psychologists Associations)

<u>RESEARCH GRANTS</u>	
<u>Research Activities and Experience</u>	
1970-1975	Grant from Stiftung Volkswagenwerk (VW) for "Psychophysiological Methods for the Treatment of Anxiety"
1972-1983	Grants from Deutsche Forschungsgemeinschaft (German Research Society, DFG) for "Behavior Modification and the Psychophysiological Basis of Anxiety"
1977-1984	Grants from Deutsche Forschungsgemeinschaft (DFG) for "Treatment of Psychosomatic Disorders"
1980-1984	Grants from Deutsche Forschungsgemeinschaft (DFG) for "Behavioral Treatment of Scoliosis"
1980-present	Grants from the Deutsche Forschungsgemeinschaft (German Research Society, DFG) for Slow Cortical Potentials of the Brain and Behavior
1989-1993	Grant from Ministry of Research and Technology (BMFT) for Treatment of Chronic Pain
	Several grants for travel and professorships from Stiftung VW ("Akademiejahr 1989"), DFG, NATO and US-Universities and Humboldt-Society
	Several grants from industrial organizations for research in psychopharmacology
1992-1995	Grant from Bosch-Stiftung "Behavioral Treatment of Parkinson's Disease"
1992-1999	Research Group of the Deutsche Forschungsgemeinschaft (DFG): "The Clinical Psychophysiology of Pain" (Forschergruppe der DFG "Klinische Psychophysiologie des Schmerzes")
1994-2005	Grant from the DFG (German Research Society) for „Neuropsychological Treatment of Epilepsy“
1995-present	Grant from the DFG (German Research Society) for „Neuronal basis of classical conditioning“
2004	Grant from the Deutsche Forschungsgemeinschaft (DFG) for acquisition of a 3 T high-field Magnetic Resonance Imaging Scanner (together with the Clinic of Radiology and Neurology)

1996-2001	Grant from Stiftung Volkswagenwerk „Nachwuchsgruppe Cortical Reorganization and Learning“
1999-2004	Grant from Ministry of Research and Technology (BMFT): “Effects of preventive anaesthesia on phantom pain and cortical reorganization”
1999-2002	Grant from German Research Society (DFG): “Cortical reorganization in phantom pain”
2002-present	Grant from the Ministry of Research and Technology (BMFT): “Neuropathic Pain”
2000-2003	Grant from the Ministry of Research and Technology (BMFT): “Direct Brain Communication in the Paralyzed”
2002-2007	Grant from NIH (National Institute of Health, USA): “A General Purpose Brain-Computer-Interface System” (together with J. Wolpaw, Wadsworth Center, Albany, N.Y., USA)
2001-present	Grants from the Deutsche Forschungsgemeinschaft (DFG) in the Sonderforschungsbereich 550 and 437 (Special Research Groups lasting 10-12 years: “Recognition and Behavior”, “War and Behavior in War”)
2005	Grant from the Deutsche Forschungsgemeinschaft (DFG) and Government of Baden-Wuerttemberg for Acquisition of a fetal Magnetoencephalograph (fMEG)
2005-present	Several grants from the Deutsche Forschungsgemeinschaft (DFG) on „Oscillatory Brain Activity and Memory“, „Cortical Reorganization in Musicians“, “Effects of brain stimulation on behavior”
2009-2012	European Research Council (ERC) grant for Brain-Computer-Interface (together with Rosenstiel) Research in the Paralyzed
2009-2013	Bernstein Center Freiburg-Tübingen of Computational Neuroscience “Hybrid Brain”, Ministry of Education and Research (BMBF) 01GQ0831
2008-2012	European Community, Marie Curie Grant Coordinator, ITN-LAN Initial Training Network: Lateralized Attention Networks
2009-2011	EU Humour Grant, Human behavioral modeling for enhancing learning by optimizing human-robot interaction, Grant-Nr. 231724
2010-2013	EU Better Grant, BETTER-BNCI-driven Robotic Physical Therapies in Stroke Rehabilitation of Gait Disorders, Grant Nr. 247935

2010-2014	EU CEEDS Grant, CEEDS- The Collective Experience of Empathy Data Systems, Grant Nr. 258749
2011-2016	Grant from the Deutsche Forschungsgemeinschaft (DFG) – Reinhart Koselleck Project. “Classical and instrumental conditioning of brain-communication and neuronal connectivity”
2012-2014	Grant from the MWK BW (Ministerium für Wissenschaft, Forschung und Kunst Baden-Württemberg). Neuroarbeitswissenschaft: Potenzialanalyse und Pilotstudie zur Emotionsermessung
2013-2015	Baden-Württemberg Stiftung, „GehiRn MUskeln REhabilitation Roboter Schnittstelle – GRUENS“; „Robotik – Mensch, Maschine, Interaktion; ROB-1
2013-2017	BRAIN TRAIN, EU FP7: Taking imaging into the therapeutic domain: Self-regulation of brain systems for mental disorders
<u>Teaching</u>	
1969-present	Extensive teaching in all areas of Behavioral Neuroscience, Physiological Psychology, General Psychology, Neuroimaging, Clinical and Medical Psychology, Behavior Modification, Psychopathology, Behavioral Medicine
	Invited keynote speaker at many conferences, universities, and medical institutions in Europe, South and North America and Asia
	Supervision of numerous dissertations, habilitations and masters' theses
<u>Clinical Experience</u>	
1975-present	Supervisor of the German Society of Behavior Modification
1970-1975	Therapist of the Ambulance of the Department of Clinical Psychology of the University of Munich (40 patients per year; all kinds of psychological and medical disorders)
1975-1992	Director of clinical program for behavior modification of psychosomatic disorders at the Clinical-Psychological Department of the University of Tübingen
1975-1992	Chief of the Ambulance of the Department of Clinical and Physiological Psychology at the University Tübingen (60 patients per year, mainly medical disorders)

1981	Member of the board of directors of the clinical program for the Psychological Treatment of Scoliosis (together with Prof. N.E. Miller and Prof. B. Dworkin, Rockefeller University, New York)
1992-present	Director of the Ambulance and Pain Clinic of the Institute of Medical Psychology and Behavioral Neurobiology
2001-present	Director of the Christoph-Dornier-Center of Clinical Psychology, Tübingen
1979-1980	Clinical Supervisor at the Fear Clinic, University of Madison, Department of Psychology
1986-1988	Supervisor of Clinical Training, Department of Psychology, The Pennsylvania State University
1990	Licence of German Medical Insurance Society (Kassenärztliche Vereinigung) as supervisor in behavior therapy (Kassenanerkennung)
1999	Licensed as "Psychologischer Psychotherapeut" by the Government of Baden-Württemberg
since 2006	Member of "Psychotherapeutenkammer Baden-Württemberg"
<u>EDITORIAL ACTIVITIES</u>	
1973-1985	Progress in Clinical Psychology (Fortschritte der Klinischen Psychologie. Germ.), Editor
1981-1995	Biofeedback and Self-Regulation, Associate Editor
until 1982	Psychologische Rundschau, Editorial Board
1977-1991	Archives of Psychiatry and Neurological Sciences, Co-Editor
1977-1982	Behavioural Analysis and Modification, Editorial Board Psychophysiology, (European Edition) Editorial Board (one issue)
1976-1999	Zeitschrift für Klinische Psychologie, Editorial Board
since 1990	Enzyklopädie der Psychologie (Encyclopedia of Psychology), Editor
1988-present	Behavioral and Brain Sciences, Associate
1994-2010	International Journal of Behavioral Medicine, Editorial Board

since 1999	Encyclopedia for the Scientific Study of Subjectivity, Kluwer Academic Publishers, Advisory Board
1999-2010	Cognitive Processing, International Quarterly of Cognitive Science, Scientific Board
2003	Guest editor, special issues on Brain-Computer-Interfaces: IEEE Transactions on Rehabilitation Engineering
since 2004	Associate Editor for Rehabilitation Technology of the Journal Neurorehabilitation and Neural Repair (NNR)
since 2008	Studia Psychologica, Editorial Board
since 2009	Editor-in-Chief: Frontiers in Neuroprosthetics (together with Eilon Vaadia)
Since 2012	Editorial Board, NeuroImage Clinical
Occasional Reviewer:	
Nature, The Journal of Neuroscience, Nature Neuroscience, Neuron, Journal of Neuroscience, Cerebral Cortex, Neuroscience Letters, IEEE-Transactions, Neuroreport, Neuropsychologia, Pain, Biological Psychology, German Journal of Psychology, Psychophysiology, Journal of Psychophysiology, Cognition and Emotion, Clinical Neurophysiology, Electroencephalography and Clinical Neurophysiology (Clinical Neurophysiology), Biological Psychiatry, The European Journal of Neuroscience, Psycology, Behavioral and Brain Sciences, Journal of Sleep Research, Brain, Brain Topography, Human Brain Mapping, Theoretical Surgery, Perceptual and Motor Skills, Psychosomatic Medicine, Psychobiology, Archives of Psychiatry and Neurological Sciences, Alcoholism, Integrative Physiological and Behavioral Science, Psychoneuroendocrinology, NeuroImage, Cognition, Neurology, Psychopharmacology, Archives of General Psychiatry, Neurotherapeutics, PLoS Medicine, PLoS Biology, PLoS One, New Journal of Physics, Current Biology, Trends in Cognitive Sciences, Stroke, Nature Medicine, Pediatrics, Journal of Neurophysiology, New England Journal of Medicine, Proceedings of the National Academy of Sciences (PNAS)	
Grant reviewer and member of several study sections, among others (Fachgutachter) for the Deutsche Forschungsgemeinschaft, NIH (National Institutes of Health), Stiftung Volkswagenwerk (VW), Bosch-Stiftung, NATO, Human Frontiers Science Foundation, British Medical Council, Wellcome Institute, German Ministry of Science and Technology, European Community, Harvard University and other US Universities, German-Israel Fund (GIF).	

<u>SCHOLARLY INTERESTS</u>	
<p>Neuronal plasticity and learning; Neurophysiological communication systems for motor paralysis (Brain-Computer-Interface); Behavioral medicine of epilepsy, Altered States of Consciousness, Motor Restoration and Learning, Amyotrophic Lateral Sclerosis (ALS) and brain processes; Slow cortical potentials and psychological processes; Analysis and modification of anxiety and antisocial behavior; Self-regulation of electrical and magnetic and metabolic brain processes; Rehabilitation with Brain-Computer-Interfaces in Chronic Stroke; Psychophysiology and behavior modification of chronic pain states; Neuropsychology and Neuroimaging of musical talent; Neural network models of brain activity, cognitive processes and non-linear dynamics; Functional Magnetic Resonance (fMRI) and learning; Magnetoencephalography (MEG) of cognitive and emotional processes, fetal brain processes and behavior, diabetes, obesity and brain processes</p>	
<u>PATENTS</u>	
<p>Realtime spatiotemporal classification of functional states of the brain from neuroimaging signals. Ranganatha Sitaram, Niels Birbaumer. Applied in 2009</p>	