

## Curriculum Vitae/Bibliography

**Professor Ivan Rektor, MD, CSc**



### 1. PERSONAL INFORMATION

Place of Birth: Levoča, CZECHOSLOVAKIA (Slovak Republic)  
Citizenship: Czech

### 2. PRESENT ACADEMIC RANK AND POSITION

Professor of Neurology

Head of the First Dept. of Neurology, Masaryk University, St. Anne's Teaching Hospital, Brno, Czech Republic

Vice-Rector (*Vice-Chancellor*) for Development, Masaryk University

### 3. EDUCATION

1966-1972: Faculty of Medicine, Medical Doctor Degree, Purkynje University, Brno, Czechoslovakia

1972-1977: training in surgery, obstetrics, orthopedics, ophthalmology, otorynolaryngology, and internal medicine, specialization (residency) in neurology, Uherské Hradiště Regional Hospital, Czechoslovakia

1977-1979: specialization (residency) in neurology, Department of Neurology, Purkynje University

1979 Education in Advanced Electroencephalography, Institute of Postgraduate Medicine, Prague, Czechoslovakia

### 4. BOARD CERTIFICATIONS

1975/1979: Institute of Postgraduate Medicine, Prague, First Grade/Second Grade of Specialization in the Field of Neurology

## **5. PREVIOUS PROFESSIONAL POSITIONS AND MAJOR APPOINTMENTS**

1970-1971: Assistant, Institute of Pathophysiology, Purkynje University, Brno, Czechoslovakia

1972-1977: Physician (Intern and Resident) at the Uherské Hradiště Regional Hospital, Czechoslovakia

1977-1990: Assistant professor at the Dept. of Neurology, Purkynje/Masaryk University, Brno, Czechoslovakia

1990-1993: Associate professor of neurology, Masaryk University, Brno

1990-1992: Associate professor (maitre do conférence associé), Université Paris VII-Jussieu, Hôpital Ste Anne, Paris, France

1992-Present: Head of the Department of Neurology, Masaryk University, St. Anne's Teaching Hospital, Brno, Czech Republic

2006-Present: Vice-Rector for Development, Masaryk University

2007-Present: Board member of the Central European Technology Institute (CEITEC), Brno

## **6. PROFESSIONAL MEMBERSHIPS AND SOCIETIES**

1972-Present: Member of the Czechoslovak (Czech) Neurological Society

1975-Present: Member of the Czech Society of Clinical Neurophysiology

1975-Present: Member of the Czech Chapter of the International League Against Epilepsy (ILAE)

1987-1994: Member of the International Brain Research Organization (IBRO)

1988-2004: Member of the Association des Physiologistes, Paris

1986-1990: Member of the Committee of the Czech Section of the International League Against Epilepsy; member of its Social and Classification Committees

1991-1993: Member of the Paris Société des Neurosciences, Club de Mouvements Anormaux and Club du lobe préfrontal

1993-Present: founding, organizing and chairing the annual Club of Abnormal Movements (Basal Ganglia Club)

1993-Present: Member of the Executive Committee of the Czech League Against Epilepsy

1993-Present: Member of the Executive Board of the Czech Society of Clinical Neurophysiology

1996-Present: Member of the Movement Disorders Society

1996-Present: Member of the Managing and Advisory Board of the Danube Symposia in Neurology

1996-2006: Member of the European Federation of Neurological Societies (EFNS) Scientist Panel on Neurodegenerative Disorders

1997-2001: Member of the EFNS Teaching Course Committee

- 1999-2003: Vice-President and President-Elect of the Czech League Against Epilepsy
- 2000-2008: Member of the Executive Board of the Czech Neurological Society
- 2001-2002: Member of Liaison/Public Relation Committee of the Movement Disorders Society
- 2003-2004: Member of Liaison/Public Relation Committee of the Movement Disorders Society
- 2001-2005: Member of the Board of the Czech Movement Disorders Society
- 2003-2004: Member of the Executive Committee of the Movement Disorders Society – European Section
- 2005-2006: Member of the Executive Committee of the Movement Disorders Society – European Section
- 2003-2007: President of the Czech Chapter of the International League Against Epilepsy
- 2007-Present: Past President of the Czech Chapter of the International League Against Epilepsy
- 2004: Founding member of the Czech Medical Academy
- 2004-Present: Member of the Czech Medical Academy
- 2005-2007: Reviser of the Czech Medical Academy
- 2007-Present: Member of the Working Group of Epilepsy Surgery, Commission on European Affairs of the ILAE (EPODES)
- 2007-Present: Member, Sub-committee for Epilepsy Surgery of the Commission of Therapeutic Strategies, ILAE
- 2007-Present: Member, World Federation of Neurology, Research Group on Parkinsonism and Related Disorders, New York, NY
- 2008-Present: President, European Society for Clinical Neuropharmacology
- 2010- Present: Member, European Neurological Society, Fellowship Committee
- 2010- Present: Corresponding Member, American Neurological Association

## **7. EDITING ACTIVITIES, MEMBERSHIP ON EDITORIAL BOARDS**

- 1973-1977: Co-operation with Czech Journal *Advances in Neurology*
- 1990-2000: Member of the Editorial Board of *Epilepsie Blaetter*-the journal of the German Chapter of the International League Against Epilepsy
- 1995-96: Member of the Advisory Board of *Acta Neurologica Moldavica*
- 1995-Present: Member of the Editorial Board of *Česká a Slovenská Neurologie a Neurochirurgie*
- 1996-Present: Member of the Editorial Board of the Czech journal *Parkinson*
- 1997-Present: Member of the Editorial Board of *Focus on Parkinson's Disease*, Netherlands
- 2001-Present: Chairman of the Editorial Board of the journal *Neurologie pro praxi*

2007: Guest Co-editor of the *Epileptic Disorders*, special issue Epileptology in Czech Republic

2009-Present: Member of editorial board of *Dysport Bulletin*

2009-Present: Member of editorial board and field editor of *Journal of Neural Transmission*

2009-Present: member of editorial board of *Epileptology*

**Ad Hoc Journal Reviewer:** *Brain, Clinical Neurophysiology, Epilepsia, Experimental Brain Research, Biological Psychiatry, Journal of Neurophysiology, NeuroImage, Journal of Neurology, Neurosurgery and Psychiatry, European J. Neurol, Movement Disorders, Parkinsonism and Related Disorders, Nature reviews* and other national and international journals

#### **Ad Hoc Grant Reviewer**

For the Grant Agency of the Czech Republic, the Internal Grant Agency of the Ministry of Health, the Slovak Grant Agency, and the Grant Agency of Charles University

2001-2007: expert at INSERM (French National Institute of Health)

2010: Brain and Cognition Programmes for Excellence, Netherlands

## **8. EDUCATIONAL ACTIVITIES**

### **A. Teaching Activities:**

1970-1972: Pathological Physiology, at the Institute of Pathological Physiology, Purkyně University, Brno

1977-Present: Neurology and Neurophysiology, at the Dept. of Neurology, Purkyně /Masaryk University, Brno

1986-1988: Vascular Neurology, at the Institute for Postgraduate Medicine, Brno

1987-1989: Electrophysiology at the Institute for Postgraduate Medicine, Prague

1990-1992: Physiology, Electrophysiology, Sleep, at Université Paris VII, France

1992-1998: Electroencephalography and Clinical Neurophysiology, at the Institutes of Postgraduate Medicine, Brno and Prague

1992-2004: lecturing in neuroscience for medical and psychology students, Masaryk University, Brno

1996,1998, 2000: organizing and teaching in teaching courses in Advanced Epileptology and Clinical Neurophysiology, at the Institute of Postgraduate Medicine, Brno

2000: organizing and teaching in Teaching Course Movement Disorders, at the Institute of Postgraduate Medicine, Brno

1998-2002: teaching courses of the European Federation of Neurological Societies; lecturing, organizing, and chairing the courses focused on Epilepsy: 1998 in Sevilla; 1999 in Lisbon;

lecturing 2000 in Copenhagen; 2002 in Vienna.

2003: co-creation of the Education Centre for Epileptology

2004, 2005: co-organizing a teaching course on dementia, in Brno

2005: The International Neurology Forum, INFO 2005: Teaching a course in Nha Trang, Vietnam, organized by WFN

2006 convener of *Modern Trends in Epilepsy* course, co-organized by EUREPA and ILAE in Brno

2006: The International Neurology Forum, INFO 2006: Teaching a course in Ulanbaatar, Mongolia, organized by WFN

2008: Hosting First European EPODES Course on Epilepsy Surgery, in Brno

2008: Teaching a course on Intracranial EEG at the 13th European Congress of Clinical Neurophysiology, Istanbul, Turkey

### **B. Mentor (year of graduation)**

Since 1992, mentor in clinical neurology for approximately thirty medical doctors specialized in neurology at the Dept. of Neurology, Masaryk University, in Brno

Petr Kaňovský, CSc 1998, Associated professor, 2001, (Professor at Palacky University)

Milan Brázdil, Ph.D 1999, Associated professor, 2002, Professor, 2007

Martin Bareš, Ph.D 2002, Associated professor, 2005, Professor, 2009

Robert Kuba, Ph.D 2004, Associated professor, 2007

Irena Rektorová, Ph.D 2004, Associate professor, 2008

Daniela Sochůrková, Ph.D 2006

Robert Mikulík, Ph.D 2007

PhD students at present:

Martina Bočková, MD

Marek Baláž, MD

Klára Stillová, MD

## **9. INSTITUTIONAL/DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS, AND OTHER ACTIVITIES**

1995-Present: Member of Science Advisory Board of the Faculty of Medicine, Masaryk University, Brno, Czech Republic

1995-Present: Chairman of the Neurology Postgraduate Education Board, Faculty of Medicine,

Masaryk University

1999-Present: Member of Science Advisory Board Masaryk University

## 10. HONORS/AWARDS

1988: Czechoslovak Society of EEG and Clinical Neurophysiology Award for papers concerning the cholinergic system

1999: Yamanouchi European Foundation Research Grant and Charitable Award for the study *Localisation of epileptic process in the brain and its therapeutic effect*

1999: “Poster of the Day” Award; XI International Congress on EMG and Clinical Neurophysiology, Prague, Czech Republic, for *Bareš M, Rektor I. Basal ganglia are involved in the generation of auditory and visual evoked potential components- A SEEG study of a contingent negative variation paradigm.*

2001: Communication selected and distinguished by its scientific quality; XV International Neurophysiology Congress, Buenos Aires, Argentina

2001: Czech Neurology Society Award for *Rektor I.: Myoklonus. Ces. neurol. neurochir, Supplementum 1, 3-19, 2000*

2001: Czech Ministry of Education First Degree Medal

2001: Henner Award for *Bareš M, Rektor I. Basal ganglia involvement in cognitive and sensory processing. A SEEG -CNV study in human subjects. Clinical Neurophysiology 2001*

2002: Henner Award for *Bareš M, Muchová M, Dufek J, Litzman J, Rektor I. Wegener’s granulomatosis- ischemic stroke as the first clinical manifestation (case study). Journal of Neurology 2002; 249: 1593-1594*

2002: Haškovec Award (Czech Neurological Society) for *Rektor et al. Intracerebral recordings of readiness potential induced by a complex motor task. Mov Disorders, 2001, 698-704*

2003: “Best Poster” Award; International Congress for Vascular Dementia, Prague

2004: “Visiting Professor” at University of Beograd, Serbia.

2004: Pick Award for *Localization of cortical speech areas and their lateralization using functional MRI – Chlebus P, Brázdil M, Mikl M, Rektor I, Pažourková M, Krupa P. Neurol. pro praxi, 2004: 3: 172-175.*

2005: Alzheimer Award

2006: Pick Award for *Myoclonus- the comparison of the treatment based on the neurotransmitters influence– Bareš M, Muchová M, Kaňovský P, Rektor I. Neurol. pro praxi, 2006: 43-45*

2007: Czech Neurological Society Award for *Bareš M, Nestráčil I, Rektor I. The effect of response type (motor output versus mental counting) on the intracerebral distribution of the slow cortical potentials in an externally cued (CNV) paradigm. Brain Research Bulletin 2007; 71(4):428-435*

2008: Pick Award for *Long-term outcome of epilepsy surgery treatment-5 years follow-up*– Kuba R, Brázdil M, Novák Z, Pažourková M, Ošlejšková H, Chrastina J, Tyrlíková I, Rektor I. *Neurol. pro praxi*, 2008; 9(3): 166-170

2009: Czech Neurological Society Award for *Rektorova I, Barrett J, Mikl M, Rektor I, Paus T. Functional abnormalities in the primary orofacial sensorimotor cortex during speech in Parkinson's disease. Mov Disord* 2007;22:2043-51.

2009: Award of the Society for Neuropsychopharmacology for *Rektorova I, Barrett J, Mikl M, Rektor I, Paus T. Functional abnormalities in the primary orofacial sensorimotor cortex during speech in Parkinson's disease. Mov Disord* 2007;22:2043-51.

### **Award for Education**

2001: First Degree Medal of the Czech Ministry of Education

## **11. RESEARCH INTERESTS AND ACCOMPLISHMENTS**

1984-1990: research co-operation with Laboratoire de physiologie nerveuse, C.N.R.S., in Gif-sur-Yvette, France (Dr Robert Naquet, Christian Menini, Silva Barrat and others)

Research activities in France in 1984, 1986, 1987, and 1989

1985-1990: Responsible for the research program “Cholinergic system in movement disorders and in epilepsies”, partly performed in co-operation with CNRS in Gif-sur-Yvette

1990-1992: research at INSERM (French National Institute of Health), Unité 97, Unité de la Recherche sur l'Épilepsie in Hôpital Ste Anne in Paris, France. Research themes: Intracerebral recording of neurophysiological signals, stereoelectroencephalography in epilepsy, spike averaging (Jean Bancaud, Michel Lamarche)

1990-1999: responsible for scientific co-operation with INSERM, Unité 97 in Paris, France (Prof. Lamarche, Prof. Buser, Dr. Louvel)

1994-Present: principal investigator in 45 double blind randomized phase III and IV studies in epilepsy, multiple sclerosis, parkinson's disease, dystonia, stroke, migraine, pain, etc.

2001-2007: expert at INSERM, France

1999-2004: principal investigator in the Czech Ministry of Education research plan MSM 141100001-Plasticity of Control Systems in the Central Nervous System and Options for Affecting This Plasticity

2005-Present: principal investigator in the Czech Ministry of Education research plan MSM 0021622404-The Internal Organization and Neurobiological Mechanisms of Functional CNS Systems Under Normal and Pathological Conditions

At present, major research interests include: Epilepsy, Parkinson's disease and related neurodegenerative syndromes, clinical neurophysiology, and cognitive neurosciences. Intracranial recordings in epilepsy, Parkinson's disease, and dystonia patients, fMRI, fMRI- EEG

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