

## Mengia-Seraina Rioult-Pedotti, PhD

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### Education

1991	Ph.D. (Dr. phil. II), Biology, (Neuroscience) University of Zurich, Brain Research Institute, Switzerland and The University of Calgary, Alberta, Canada.
1986	M.S. (dipl. Biol.) University of Zurich and Brain Research Institute, Zoology, Marine Biology, and Neurobiology
1982-1986	Biology, University of Zurich, Switzerland.
1977-1982	Medical School, University of Zurich, Switzerland

### Research and professional experience

2016- present Injury	Assistant Professor (Research), Dept Molecular Pharmacology, Physiology and Biotechnology. Studies of synaptic transmission and plasticity in Traumatic Brain Injury and Angelman Syndrome using electrophysiological techniques.
2012-2014	Independent Contractor. Using slice electrophysiology to study cortical and hippocampal synaptic transmission and plasticity. Effects of newly developed drugs to ameliorate functional damage as a result of disease (Angelman Syndrome, Alzheimer's disease, Stroke, Traumatic Brain Injury).
Aug 10 – July 16	Visiting Scientist, Dept Molecular Pharmacology, Physiology and Biotechnology, Brown University, USA. Mechanisms underlying Alzheimer's disease and Angelman Syndrome. Development & mechanisms of potential compounds that intervene or slow down progression of disease. Rats and genetically manipulated mice models, slice electrophysiology, pharmacology.
Since Aug 08	Group leader, Vascular Neurology & Neurorehabilitation. University of Zuerich, Switzerland. Role and mechanisms of the dopaminergic system (VTA) in cortical synaptic plasticity during motor skill learning and rehabilitation from stroke. Role of Nogo in cortical plasticity and skill learning. Rat model, slice electrophysiology, pharmacology, behavior, mapping, in vivo recording, tracing.

Dec 06 – May10	Senior Investigator, Dept Neuroscience, Brown University, USA. Mechanisms of skill learning induced cortical synaptic plasticity. In vivo 2-photon imaging of dendritic spines during learning and memory formation combined with slice electrophysiology on single cell and population level. Rat and mice motor learning model and GFP/YFP.
Oct 03 – Nov 06	Senior Investigator, Dept. Molecular Pharmacology, Physiology and Biotechnology, Brown University, USA. Mechanisms of neocortical learning and memory. Study of Kainate receptors in motor cortical function and synaptic plasticity. Rat motor skill learning model, slice electrophysiology.
Mar 99- Aug 03	Investigator, Dept Neuroscience, Brown University, USA. Role of cortical synaptic plasticity during motor learning and memory formation. Rat learning model, slice electrophysiology, behavior.
Jan 96 – Feb 99	Research Associate, Dept Neuroscience, Brown University, USA Mechanisms of cortical synaptic plasticity: activity dependent and skill learning induced synaptic plasticity. Rat motor learning model, slice electrophysiology, behavior.
Mar 93 - Dec 95	Postdoctoral Fellow, Dept Biology, Yale University, USA Plasticity of the visual system. Mechanisms of developmental down-regulation of NMDA receptor activity in rats (superior colliculus) and frogs (optic tectum).
Mar 93 – Dec 95	Independent study, School of Medicine, Yale University, USA Mechanisms of motoneuron oscillations in the spinal cord and their behavioral role during development from tadpole to frog.
Aug 89 – Feb 93	Research Associate; Dept Physiology, University of Bern, Switzerland. Processing and coding of motor information in the spinal cord of cats and frogs. Comparative study of the influence of noise on the quantal EPSP size in experimental data and simulations. Experimental rejection of the branch point failure hypothesis at the mixed electrical and chemical Ia-MN synapse in the frog spinal cord. Contribution of excitatory amino acids to the generation of evoked responses in frog MNs. Intrinsic membrane potential oscillations in spinal MNs.
Nov 86 – Jul 89	PhD research at the Brain Research Institute, University of Zürich and The University of Calgary, Alberta, Canada Contribution of the fusimotor system to the control of posture and locomotion in cats. Examination of the ability of static and dynamic fusimotor neurons to compensate muscle shortening Ia discharge patterns. Experimental evaluation of a new iterative and interactive simulation method.
Sep 84 – Oct 86	Master's Thesis research at the Brain Research Institute, University of Zürich, Switzerland Plasticity of the vestibular system following lesions. Role of the cervico-ocular reflex in recovery from chronic labyrinthectomy in frogs.

Jul - Aug 85	Summer course 'Neural Systems and Behavior', Marine Biological Laboratory (MBL), Woods Hole, MA, USA
Apr 84 – Jul 84	Independent research project, University of Zurich, Switzerland Spatial orientation of crickets and ants during foraging activity.
Oct 78 – Dec 82	Part-time/Full-time Medical Assistant, University of Zurich Hospital; (Depts. Neurology, Neurosurgery, Traumatology); Intensive care station (Ophtalmology, Otholaryngology,Radiology, Gynecology).

## **Technical experience**

**Development of a model** to study mechanisms of learning and memory in the cortex of rats and mice (motor skill learning followed by cortical slice electrophysiology)

### **Electrophysiology:**

- Multisite recordings with electrode arrays (>4000 electrodes in 1 mm<sup>2</sup>) in brain slices (3 brain)
- Multisite recording using photodiode array (496 diodes) and voltage sensitive dye technology in hemisected frog spinal cord
- Spinal root recordings: hemisected frog spinal cord
- Single unit recordings of primary afferents to alpha & gamma single fibre stimulation in acute cat spinal cord
- Single unit recordings in Cortex and Striatum in anesthetized rats
- Extracellular field potential recordings (population recordings) in brain slices (motor cortex, prefrontal cortex, hippocampus, VTA)
- Intracellular sharp electrode recordings (blind): motoneurons of frog spinal cord, pyramidal neurons in rat motor cortex
- Blind whole-cell recording: frog optic tectum, pyramidal neurons in rat motor cortex
- Visualized whole cell recordings using IR-DIC technology: rat motor cortex
- Single channel recordings: frog optic tectum slices
- Eye movement registration with the magnetic field search coil technique in the frog

### **Cortical Mapping of mouse and rat cortex:**

- Intracortical microstimulation technique
- Acute multielectrode thin film arrays technique (developed in our laboratory)

### **Analysis methods:**

- Systems analysis
- Monte Carlo simulations
- Deconvolution analysis
- Fluctuation analysis
- Statistics
- Iterative simulation methods (home made)
- Various data analyses of electrophysiological recordings

### **Molecular Biology:**

- RNA analysis including RNA isolation and purification, preparation of radiolabeled DNA probes for northern hybridisation. Amplification and purification of DNA fragments. Quantitative analysis of transcripts. Northern and Western blot analysis.
- Western blot analysis

### **Staining and tracing techniques:**

- Immunocytochemistry
- Immunohistochemistry
- biocytin and fluorescence labeling
- Nissl stainings
- fluorescent tracer injections

### **Behavioral methods:**

- Motor skill training and analysis of adult rats and mice
- Built apparatus for two different motor tasks for adult rats

- Motor skill training apparatus: computer controlled and quantifiable (homemade)
- Developed mouse motor skill training apparatus

#### **Other techniques:**

- Brain: Acute slice preparations of frog, tadpole, rat, mouse at different ages, cannula and osmotic minipump implantation
- Spinal cord: acute cat and rat spinal cord preparation (laminectomy), isolated frog and tadpole spinal cords
- Other:
  - labyrinthectomy in frogs
  - perfusions of frogs and rat (all ages from newborn up)
  - in vitro* fertilization of rana
  - in vivo* chronic drug application in frog and rat brain using elvax, a longterm drug release plastic
  - in vivo* chronic drug application using osmotic minipumps (Alzet)
  - in vivo* local drug application via implanted cannulas
  - In vivo* 2-photon laser imaging of dendritic spines in adult rat & mouse motor cortex
  - Virus injections in motor cortex of rats at various ages (neuron visualization for 2-photon imaging)
  - Phototrombotic stroke model
  - Preparing skull windows and bone thinning to allow *in vivo* imaging (2-photon imaging) of the dynamics of dendritic spines with learning and memory.

#### **Teaching experience**

Aug 89 – Feb 93      Dept. of Physiology, University of Bern, Switzerland  
Sensory physiology (Laboratory courses included)

#### **Supervision of Students, Research Assistants, Graduate Students, MD's, Postdocs**

Oct 15-present	Lauriane Nallet, Graduate Student, Neurorehabilitation, Universität Zürich
Jan 15-present	Clement Vitrac, PhD, Neurorehabilitation, Universität Zürich
Jan 12-Dec 12	Roman Gonzenbach, MD, PhD, Neurorehabilitation, Universität Zürich
May 11- Dec 16	Susan Leemburg, PhD, Neurorehabilitation, Universität Zürich
Jun 10 – Dec 11	Tina Kaffenberger, MD, Neurorehabilitation, Universität Zürich
Feb 10 – Jul 11	Max Schubring, MD Neurorehabilitation, Universität Zürich
Mar 09 – Nov 10	Stephanie Schwarz, MD, Neurorehabilitation, Universität Zürich
Aug 08 – Aug 10	Jonas Hosp, MD Neurorehabilitation, Universität Zürich
Aug 08 – Feb 10	Stephanie Heim, MD, Neurorehabilitation, Universität Zürich
Dec 10- 2012	Ajmal Zemmar, Graduate Student, Brain Research Institute, Universität Zürich
Jun 02 – Sept 02	Carlos Vargas-Irvin, research assistant, Brown University
Sept 99 – Feb 00	David Margolis, research assistant, Brown University
May 97 – May 98	Daniel Friedman, research assistant, Brown University
Sep 09 – Jun 10	David Kumar, undergraduate student, Brown University
Dec 07 – Jun 09	Oksana Babshenko, undergraduate student, Brown University
Jun 07-Aug 08	Rosy Carter, undergraduate student, Brown University
Jun 07 – May 08	Stephen Alerhand, undergraduate student, Brown University
Jun 06 – Sept 06	David Coughlin, undergraduate student, Brown University
Jun 04 – Sept 04	Vance Monet, undergraduate student, Brown University
Nov 01- May 03	Nora Fehlbaum, undergraduate, honors thesis, Brown University
Dec 98 - May 00	William Bragg, undergraduate, honors thesis, Brown University
Dec 98 - Sep 99	Olivier Humblet, undergraduate, Brown University

May 98 – Jul 98	Jared Weiss, undergraduate, Brown University
Sep 97 - May 99	David Margolis, undergraduate honors thesis, Brown University
Jun 97- Dec 98	Andrew Ho, undergraduate, Brown University
Jun 96 – May 97	Daniel Friedman, undergraduate honor thesis, Brown University
Jun 96 – Aug 96	Stacy Erlandson, Leadership Alliance summer student, Brown University

### **Collaborations**

Oct 14-present	Prof Paolo Migani, Dipartimento di Scienze della Vita e dell'Ambiente, Universita Politecnica delle Marche, Ancona, Italy
Mar 14-present	Profs Joanna&Adam Szmydynger-Chodopska, Emergency Medicine, Brown University
Jan 12-present	Prof Henry Querfurth, Neurology, RI Hospital, USA
Mar 10- 2015	Prof Martin Schwab, Brain Research Institute, University of Zürich, Switzerland
Apr 08- 2008	Prof Carl Saab, Surgery Dept., Brown University, USA
Jan 11-2014	Dr David Margolis Brain Research Institute, University of Zürich and Rotgers University, New York, USA
Oct 06 - 2008	Prof Andreas Luft. Neurorehabilitation, University of Zürich, Switzerland
Apr 04 - 2010	Prof Anna Dunaevsky, Brown University/University of Nebraska, USA
2003- present	Prof John Marshall, MPPB, Brown University
2001	Dr. Kenneth Kosik, Harvard University, USA
2001	Dr. Alexander Dityatev, Zentrum fuer Molekulare Neurobiologie, University of Hamburg, Germany
Jun 99 - 2001	Dr. Ruth Kohen, University of Washington, Seattle, USA (cDNA microarrays)
Jun 98 - 2000	Prof Peter Sonderegger, Dept. Biochemistry, University of Zurich, Switzerland (Neuroserpin, extracellular matrix protein)
May 97 - Aug 98	Dr. Cristina Alberini, Dept. Neuroscience, Brown University, USA (Immediate early genes)

### **Journal Reviews**

Reviewer for the Journal of Neuroscience

Reviewer for the Journal of Experimental Brain Research

### **Grants and awards**

2011 - 12	Koetser Foundation, Switzerland
2005 - 07	R21, Co-Investigator, NIH
1994 - 95	Swiss National Science Foundation, extension for an advanced researcher grant
1993 - 94	Swiss National Science Foundation, research grant for advanced researchers
1989 - 90	Sandoz-Foundation fellowship, Basel, Switzerland
1989	Alberta Heritage Foundation fellowship, Canada
1985 - 86	STEO-Foundation fellowship, Zurich, Switzerland

### **Invited Presentations**

Mar 2015	CRPP, Ittingen, Switzerland
Oct 2011	Heidelberg, Germany
Jan 2010	NCCR Symposium, Berlingen Switzerland
Sep 2009	ZNZ Symposium, Zürich, Switzerland
May 2009	XXIII Sandbjerg Symposium, Sonderborg, Denmark
Oct 2006	Symposium, Hertie Institute for Clinical Brain Research, Tuebingen, Germany
Apr 2004	University of Maryland, USA
Oct 2003	Salve Regina University, RI, USA
Dec 1998	University of Zuerich, Switzerland
Aug 1992	Workshop on cellular networks, Palanga, Lithuania

### **Membership in professional societies**

1997	The American Physiological Society
1986	Society for Neuroscience

1984	International Brain Research Organization (IBRO)
1984	European Neuroscience association (ENA)



## List of publications

- Rioul-Pedotti, M.-S., Plasticity of horizontal pathways in Layer I of Neocortex. In preparation
- Margolis D. and Rioul-Pedotti, M-S. Reversed plasticity results from NMDA receptor blockade during learning. In preparation
- Vitrac C, Luft A, Rioul-Pedotti M-S. Motor skill learning-induced cortical synaptic plasticity. Book Chapter Springer. In preparation
- Kaffenberger T, Luft AR and Rioul-Pedotti M-S. Increased synaptic plasticity in peri-infarct cortex two weeks post-stroke. In preparation
- Lau K, Rioul-Pedotti M-S, Yao M, Marino C, Migani P, Marshall J. A novel cyclic peptide facilitates learning and memory in Angelman Syndrome. In preparation
- Marshall J, Szmydynger-Chodobska J, Rioul-Pedotti M-S, Lau K, Tiwari R, Parang K, Threlkeld SW, Chodobski A. TrkB-enhancer facilitates functional recovery after traumatic brain Injury. Submitted
- Rioul-Pedotti M-S, Pekanovic A, Osei Atiemo C, Marshall J, Luft AR. Dopamine promotes motor cortex plasticity and motor learning via PLC activation. PLoS One. 2015 May 4;10(5):e0124986. doi:10.1371/journal.pone.0124986. eCollection 2015
- Zemmar A, Yu X, Kellner Y, Vicente R, Gullo M, Kasper H, Weinmann O, Lussi K, Luft A, Rioul-Pedotti M-S, Zagrebelsky M, Zuo Y, Schwab ME. Neutralization of Nogo-A enhances synaptic plasticity in the rat motor cortex and improves motor learning in vivo. J Neurosci. 2014 Jun 5;34(26):8685-98. doi: 10.1523/JNEUROSCI.3817-13.2014. PMID: 24966370
- Tews B, Schöning K, Arzt ME, Rioul-Pedotti M-S, Berger S, Clementi S, Schneider M, Weinmann O, Schwab ME, Bartsch D. Nogo-A deficient rats: a novel miRNA transgenic animal model to investigate complex psychiatric endophenotypes and neuronal plasticity. PNAS 110(16):6583-8, 2013.
- Cao C, Rioul-Pedotti M-S, Migani P, Ju CJ, Marshall J. Impairment of TrkB-PSD-95 signaling in Angelman Syndrome. PLoS Biol 11(2) 2013
- Hosp J, Pekanovic A, Rioul-Pedotti M-S, Luft AR. Motor skill learning depends on dopaminergic projections from ventral tegmental area to primary motor cortex. J. Neuroscience, 31(7): 2481-2487, 2011
- Molina-Luna K, Pekanovic A, Roehrich s, Hertler B, Schubring-Giese M, Rioul-Pedotti M-S, Luft, A. Dopamine in motor cortex is necessary for skill learning and synaptic plasticity. PLoS ONE 4(9), 2009
- Harms K, Rioul-Pedotti M-S, Carter DR, and Dunaevsky A. Transient spine expansion and learning-induced plasticity in layer I primary motor cortex. J Neurosci. 28:5686-5690, 2008

- Rioult-Pedotti, M.-S., Donoghue, J.P., and Dunaevsky A., Plasticity of the synaptic modification range. *J Neurophysiol* 98: 3688-3695, 2007
- Rioult-Pedotti, M.-S. and Donoghue, J.P. The nature and mechanisms of plasticity. In: *Plasticity in the human brain: Scientific and clinical studies with TMS*. Cambridge University Press, 2003
- Rioult-Pedotti, M.-S., Friedman, D. and Donoghue, J.P., Learning-induced LTP in neocortex. *Science* 290: 533-536, 2000
- Rioult-Pedotti, M.-S., Friedman, D., Hess, G. and Donoghue, J.P., Strengthening of horizontal cortical connections following skill learning, *Nature Neurosci.* 1(3):230-234, 1998
- Rioult-Pedotti, M.-S., Intrinsic NMDA-induced oscillations in motoneurons of an adult vertebrate spinal cord are masked by inhibition, *J. Neurophysiol.* 77: 717-730, 1997
- Clamann, H.P., Rioult-Pedotti, M.-S. and Lüscher, H.-R., The influence of noise on quantal EPSP size obtained by deconvolution in spinal motoneurons in the cat, *J. Neurophysiol.* 65: 67-75, 1991
- Rioult-Pedotti, M.-S., Compensation for muscle shortening-induced Ia discharge patterns by modulated static and dynamic fusimotor stimulation. Ph.D. thesis, University of Zurich, 1989.
- Rioult-Pedotti, M.-S. and Dieringer, N., The cervico-ocular reflex in intact and chronically labyrinthectomized frogs, *Neurosci. Letters* 90: 135-140, 1988
- Rioult-Pedotti, M.-S., Der Cerviko-okuläre Reflex intakter und chronisch labyrinthektomierter Frösche. Master thesis. University of Zurich, 1986.

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- Lau K, Rioult-Pedotti M-S, Yao M, Marino C, Migani P, Marshall J. A novel peptide drug facilitates learning and memory in Angelman Syndrome. *Mind Brain Research Day* (2018)
- Lau K, Rioult-Pedotti M-S, Yao M, Marino C, Migani P, Marshall J. A novel peptide drug facilitates learning and memory in Angelman Syndrome. *Soochow Medical School University Symposium* (2018)
- Lau K, Rioult-Pedotti M-S, Yao M, Marino C, Migani P, Marshall J. A novel peptide drug facilitates learning and memory in Angelman Syndrome. *Nanjing Eye Medical School Symposium* (2018)
- Lau KA, Rioult-Pedotti M-S, Tiwari R, Threlkeld SW, Szmydynger-Chodobska J, Chodobski A, Marshall J. BDNF-enhancer facilitates functional recovery following traumatic brain injury. *Cold Spring Harbor Meeting of Neurodegeneration* (2016)
- Kaffenberger T, Luft AR, Rioult-Pedotti MS. Increased cortical plasticity in periinfart tissue at 14 days after stroke. *Stroke Society of Australia* (2015)

- Kaffenberger T, Luft AR, Rioult-Pedotti MS. Influence of dopamine on intracortical connections in the primary motor cortex. NCCR Symposium, Ittingen, Switzerland (2011)
- Schwarz S, Schubring-Giese M, Hosp J, Rioult-Pedotti M-S, Luft AR. Task specific learning is necessary for successful motor recovery after experimental stroke. Soc. Neurosci. Abstr. 32 (2010)
- Rioult-Pedotti M-S, Pekanovic A, Osei Atiemo C, Luft AR. Dopamine in the primary motor cortex activates PLC pathway to Influence motor learning and synaptic plasticity. Soc. Neurosci. Abstr. 32 (2010)
- Rioult-Pedotti, M-S, Dunaevsky, A. Learning induced strengthening of horizontal connections in the mouse primary motor cortex. Soc. Neurosci. Abstr. 32 (2009)
- Rioult-Pedotti, M-S, Harms, K, Carter R, Dunaevsky, A. Transient spine expansion in layer 2/3 motor cortex with learning-induced plasticity. Soc. Neurosci. Abstr. 31 (2008)
- Rioult-Pedotti, M-S, Molina-Luna, K, Hosp, J, Hertler, B, and Luft A., Synaptic Plasticity and excitability depends on dopaminergic signaling in motor cortex. Soc. Neurosci. Abstr. 30, (2007)
- Harms, K., Rioult-Pedotti, M-S, and Dunaevsky, A. Transient spine expansion with learning-induced plasticity. Soc. Neurosci. Abstr 30. (2007)
- Harms, K., Rioult-Pedotti, M-S, and Dunaevsky, A. Dendritic spine changes with learning-induced Plasticity. Soc. Neurosci. Abstr. 29, (2006)
- Rioult-Pedotti, M.-S. and Fehlbauer, N. Complex environment boosts learning, and cortical synaptic strengthening and plasticity. Soc. Neurosci. Abstr. 28, (2003)
- Rioult-Pedotti, M.-S. and Donoghue, J.P. Learning, retention and persistent strengthening of cortical synapses. Soc. Neurosci. Abstr. 27, (2002)
- Rioult-Pedotti, M.-S. and Donoghue, J.P. Neocortical learning regulates synaptic strength by altering the 'synaptic modification range'. Soc. Neurosci. Abstr. 25, (2000)
- Rioult, M., Kohen, R., Barrett, T., Donovan, D.M., Becker, K.G., Hamblin, M.W., Donoghue, J.P. and Rioult-Pedotti, M.-S., Learning induces widespread changes in gene expression in neocortex. Soc. Neurosci. Abstr. 25, (2000)
- Rioult-Pedotti, M.-S. and Donoghue, J.P., Persistent synaptic modification and reappearance of LTP after long-term motor skill training. Soc. Neurosci. Abstr. 24, (1999)
- Margolis, D.J., Donoghue, J.P., Rioult, M.G. and Rioult-Pedotti, M.-S., Role of NMDA receptors in skill learning and learning-induced synaptic strengthening. Soc. Neurosci. Abstr. 24, (1999)
- Rioult-Pedotti, M.-S., Friedman, D. and Donoghue, J.P., Skill learning occludes LTP in horizontal cortical connections. Soc. Neurosci. Abstr. 23, (1998)
- Donoghue, J.P., Hess, G., Friedman, D. and Rioult-Pedotti, M.S., Horizontal connections as a basis for learning related cortical plasticity, Ascona, Switzerland, (1997)

- Riolt-Pedotti, M.-S., Friedman, D. and Donoghue, J.P., Horizontal connections in motor cortex are strengthened with motor task acquisition in adult rats, Ascona, Switzerland, (1997)
- Friedman, D., Riolt-Pedotti, M.-S. and Donoghue, J.P., Motor skill acquisition strengthens horizontal connections in adult rat motor cortex, Soc. Neurosci. Abstr. 22, (1997)
- Riolt-Pedotti, M.-S. and Donoghue, J.P., Activity dependent plasticity - a property common to all layers of adult motor cortex? Soc. Neurosci. Abstr., Soc. Neurosci. Abstr. 21, (1996)
- Riolt-Pedotti, M.-S., Rentería, R.C. and Constantine-Paton, M., Nitric oxide enhances activity in the developing amphibian tectum, Soc. Neurosci. Abstr. 20, (1995)
- Riolt-Pedotti, M.-S., NMDA-induced oscillations of spinal motoneurons become masked by inhibition during development, Soc. Neurosci. Abstr. 19, (1994)
- Riolt-Pedotti, M.-S., Relief of strychnine sensitive inhibition reveals NMDA-induced oscillations in frog spinal cord, Soc. Neurosci. Abstr. 18, (1993)
- Riolt-Pedotti, M.-S., Excitatory amino acids involved in mixed chemical and electrical synaptic transmission in frog spinal cord, Soc. Neurosci. Abstr. 17, (1992)
- Riolt-Pedotti, M.-S., Modulation of transmission at a mixed chemical and electrical synapse in frog spinal cord, Invited talk, Workshop on cellular networks, Palanga, Lithuania, (1992)
- Riolt-Pedotti, M.-S. and Clamann, H. P., Does reflex enhancement by post-tetanic potentiation and by cooling act via the same mechanism in the frog spinal cord ? *Experientia*, 47, (1991), A6
- Riolt-Pedotti, M.-S. and Clamann, H. P., The effect of low temperatures on post-tetanic potentiation in the frog spinal cord, Soc. Neurosci. Abstr., 16 (1990)
- Riolt-Pedotti, M.-S., Clamann, H. P. and Lüscher, H.-R., Deconvolution by maximum likelihood estimation creates an artefactual relation between EPSP size and noise, *Europ. J. Neurosci., Suppl.* (1990) 263
- Riolt-Pedotti, M.-S., Kohen, R. and Hulliger, M., On the ability of static and dynamic fusimotor neurones to maintain spindle Ia firing during muscle shortening of widely ranging speed, Afferent control of posture and locomotion, Satellite Symposium of 11th Ann. ENA Meeting (1988) 41
- Riolt-Pedotti, M.-S., Kohen, R. and Hulliger, M., On the ability of static and dynamic gamma motoneurons to maintain spindle Ia firing during muscle shortening, *Europ. J. Neurosci., Suppl.* (1988) 269
- Riolt-Pedotti, M.-S. and Dieringer, N., The cervico-ocular reflex (COR) in intact and chronically labyrinthectomized frogs, *Neurosci. Lett., Suppl.* 26 (1986) 549