
BIOGRAPHICAL SKETCH

NAME MARCO MOLINARI	POSITION TITLE Director Translational Research Department Neurorehabilitation Department 1 and Spinal Cord Rehab Unit – Neuro-Robot Rehabilitation Lab - Santa Lucia Foundation IRCCS – Rome Italy.
Home Address: Via G. Pezzana 70 - 00197 Roma Italy Phone: Home: +39-06-8079154 Office: +39- 06-51501600 Fax: +39-06-1501679. email: m.molinari@hsantalucia.it . Birth: August 10, 1954, Milano, Italy. Marital Status: Married	

EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Catholic University Medical School Rome, Italy.	M.D	1973-1979	Medicine
Catholic University Medical School Rome, Italy.	Specialist	1979-1983	Neurology
Catholic University Medical School Rome, Italy.	Ph. D	1983-1986	Neuroscience
University of Parma Medical School, Italy	Specialist	1987-1990	Restorative Medicine
SDA Bocconi School of Management, Milan, Italy		2002-2003	Healthcare Management

Dr. Marco Molinari (Neurologist, Physical medicine and rehabilitation specialist, PhD in Neuroscience) is the Director of Neurorehabilitation Translational Research and Clinic 1 at IRCCS Fondazione Santa Lucia, Rome. The Department integrates Neuroscience research and clinical neurological rehabilitation units. The clinical ward is devoted to rehabilitation of patients with brain or spinal cord lesions in a multidisciplinary environment. Research activity has been always focused on brain plasticity mechanisms and functional recovery both at basic science and clinical levels. Basic science approaches in animal models as well as development and testing of new technological in humans characterize Dr Molinari research experience. In the last decade research activities mostly focused on human machine interactions applied to neurological rehabilitation, Dr. Molinari is author of over 150 articles published on indexed journals. SCOPUS H-index 53. He is Review Editor of The Cerebellum.

A. Teaching Responsibilities

- 1994-1998 Basic Neuroanatomy and Neurophysiology, University of Rome "La Sapienza", Faculty of Psychology.
 - 1984-1998: Tutoring for MD students and Neurology interns.
 - 1994-2010: Clinical Neuroanatomy for neurology Interns. Catholic University Medical School Rome, Italy
 - 1992-1994: Restorative medicine and rehabilitation for neurology Interns. Catholic University Medical School Rome, Italy.
 - 1989-1990: Member of Medical Faculty Council. Catholic University Medical School Rome, Italy.
 - 1994-1998: Member of the Research Financing Council. Catholic University Medical School Rome, Italy.
 - 2010-present: Restorative medicine and rehabilitation for Neuropsychologists. School of neuropsychology, Department of Psychology, University of Rome "La Sapienza", Rome, Italy.
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B. Positions and Honors

January 2014 – present	Director Translational Research Department - IRCCS S. Lucia Foundation – Rome Italy
February 1998 – present	Director Neurorehabilitation Department and Spinal Cord Rehab Unit – IRCCS S. Lucia Foundation – Rome Italy.
January 2014 – present	Head Neuro-Robot Rehabilitation Lab - IRCCS S. Lucia Foundation – Rome Italy.
February 1998 – present	Head Experimental Neurorehabilitation Lab - IRCCS S. Lucia Foundation – Rome Italy.
2013	Full Professor in Neurology National Qualification (Abilitazione scientifica nazionale alle funzioni di professore di prima fascia nel settore concorsuale 06/D6, Neurologia).
January 1988 - 2005	Assistant Professor (Ricercatore) Neurological Institute, Catholic University Medical School Rome, Italy.
November 1994 - 1998	Professor of Basic Neuroanatomy and Neurophysiology (<i>Professore a contratto, Fondamenti Anatomico Fisiologici dell'Attività Psicica</i>), University of Rome "La Sapienza", Faculty of Psychology.
1989-1993:	Visiting researcher at the Frontier Research Program, RIKEN Institute, Wako, Saitama, Japan.
1987	Visiting Research Assistant Professor at the Institute of Psychology, Duke University, Durham, NC, USA.
1985 - 1986	Visiting Researcher at the Institute of Anatomy and Neurobiology, University of California Irvine, Irvine, CA, USA.
1986	Winner of the ARIN prize for the development of neurological research granted by “Associazione per la promozione delle ricerche neurologiche” .
1984	Winner of a fellowship for the "European Training Programme in Brain and Behaviour Research, Winter School on New Developments in the Investigation of the Human Brain".
May 1981 August 1982	MD Assistant to Neurology Dept - General National Military Hospital “Attilio Frigeri” Rome Italy.
March September 1980	MD Internship Neuroradiology - Ospedale Maggiore, Ospedali Riuniti di Bergamo, Bergamo, Italy.
1983	Winner of the Toniolo Research prize granted by “Istituto Giuseppe Toniolo di Studi Superiori” .
1982	Winner of the 1981/1982 “Carmelo Pero” prize of the Italian Society of Neurology.

Memberships

International Brain Research Organization (IBRO)
Society for Neuroscience (SfN)
Italian Society of Neuroscience (SINS)
Italian Society of Neurology (SIN)
Italian Society of Neurological Rehabilitation (SIRN)
Society for Research on the Cerebellum (SRC)

Review Editor

Cerebellum (Springer)

Editorial Advisory Boards

Cerebellum (Springer)
Cerebellum and Ataxia (Springer)

Reviewer for the Following Funding Agencies (excerpt)

European Research Council (ERC)
French National Research Agency (ANR)
AT Society

C. Research Interests

Cerebellar physiology and pathophysiology, Neurorehabilitation, New Technology developments for rehabilitation, Wearable tools for rehabilitation, Human machine interactions, Neuroplasticity, Clinical Neurology, Neurophysiology. Main area of research: neural plasticity and functional recovery, Spinal cord lesion and rehabilitation,.

CITATIONS METRICS

Scopus H-inDex 53 (28/092018) . Total citations 8324 . 214 Cited Documents.

Orcid: org/0000-0001-9808-9688

D. Selected Ten most cited Peer-Reviewed Publications

1. Title: Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition) Author(s): Klionsky, Daniel J.; Abdelmohsen, Kotb; Abe, Akihisa; et al. Source: Autophagy Volume: 12 Issue: 1 Pages: 1-222 Published: 2016 Times Cited: 211 DOI: 10.1080/15548627.2015.1100356
 2. Title: Cerebellum and procedural learning: evidence from focal cerebellar lesions Author(s): Molinari, M; Leggio, MG; Solida, A; et al. Source: Brain Volume: 120 Pages: 1753-1762 Published: OCT 1997 Times Cited: 205 DOI: 10.1093/brain/120.10.1753
 3. Title: Eye-hand coordination during reaching. I. Anatomical relationships between parietal and frontal cortex Author(s): Marconi, B; Genovesio, A; Battaglia-Mayer, A; et al. Source: Cerebral Cortex Volume: 11 Issue: 6 Pages: 513-527 Published: JUN 2001 Times Cited: 180 DOI: 10.1093/cercor/11.6.513
 4. Title: Eye-hand coordination during reaching. II. An analysis of the relationships between visuomanual signals in parietal cortex and parieto-frontal association projections Author(s): Battaglia-Mayer, A; Ferraina, S; Genovesio, A; et al. Source: Cerebral Cortex Volume: 11 Issue: 6 Pages: 528-544 Published: JUN 2001 Times Cited: 133 DOI: 10.1093/cercor/11.6.528
 5. Title: Consensus Paper: Roles of the Cerebellum in Motor Control-The Diversity of Ideas on Cerebellar Involvement in Movement Author(s): Manto, Mario; Bower, James M.; Conforto, Adriana Bastos; et al. Source: Cerebellum Volume: 11 Issue: 2 Pages: 457-487 Published: JUN 2012 Times Cited: 117 DOI: 10.1007/s12311-011-0331-9
 6. Title: AUDITORY THALAMOCORTICAL PATHWAYS DEFINED IN MONKEYS BY CALCIUM-BINDING PROTEIN IMMUNOREACTIVITY Author(s): MOLINARI, M; DELLANNA, ME; RAUSELL, E; et al. Source: Journal of Comparative Neurology Volume: 362 Issue: 2 Pages: 171-194 Published: NOV 13 1995 Times Cited: 114 DOI: 10.1002/cne.903620203
 7. Title: Verbal short-term store-rehearsal system and the cerebellum - Evidence from a patient with a right cerebellar lesion Author(s): Silveri, MC; Di Betta, AM; Filippini, V; et al. Source: Brain Volume: 121 Pages: 2175-2187 Published: NOV 1998 Times Cited: 113 DOI: 10.1093/brain/121.11.2175
 8. Title: Up-regulation of P2X(2), P2X(4) receptor and ischemic cell death: Prevention by P2 antagonists Author(s): Cavaliere, F; Florenzano, F; Amadio, S; et al. Source: Neuroscience Volume: 120 Issue: 1 Pages: 85-98 Published: 2003 Times Cited: 109 DOI: 10.1016/S0306-4522(03)00228-8
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9. Title: Phonological grouping is specifically affected in cerebellar patients: a verbal fluency study Author(s): Leggio, MG; Silveri, MC; Petrosini, L; et al. Source: Journal of Neurology Neurosurgery and Psychiatry Volume: 69 Issue: 1 Pages: 102-106 Published: JUL 2000 Times Cited: 109 DOI: 10.1136/jnnp.69.1.102
10. Title: Distributed plasticity of locomotor pattern generators in spinal cord injured patients Author(s): Grasso, R; Ivanenko, YP; Zago, M; et al. Source: Brain Volume: 127 Pages: 1019-1034 Published: MAY 2004 Times Cited: 104 DOI: 10.1093/brain/awh115

E. Selected Ten most recent Peer-Reviewed Publications

11. Title: Altered Functionality, Morphology, and Vesicular Glutamate Transporter Expression of Cortical Motor Neurons from a Presymptomatic Mouse Model of Amyotrophic Lateral Sclerosis Author(s): Saba, L.; Viscomi, M. T.; Caioli, S.; et al. Source: Cerebral Cortex Volume: 26 Issue: 4 Pages: 1512-1528 Published: APR 2016 Times Cited: 6 DOI: 10.1093/cercor/bhu317
 12. Title: Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition) Author(s): Klionsky, Daniel J.; Abdelmohsen, Kotb; Abe, Akihisa; et al. Source: Autophagy Volume: 12 Issue: 1 Pages: 1-222 Published: 2016 Times Cited: 211 DOI: 10.1080/15548627.2015.1100356
 13. Title: Observational study of the effectiveness of spinal cord injury rehabilitation using the Spinal Cord Injury-Ability Realization Measurement Index Author(s): Scivoletto, G.; Bonavita, J.; Torre, M.; et al. Source: Spinal Cord Volume: 54 Issue: 6 Pages: 467-472 Published: JUN 2016 Times Cited: 0 DOI: 10.1038/sc.2015.153
 14. Title: The embodiment of assistive devices-from wheelchair to exoskeleton Author(s): Pazzaglia, Mariella; Molinari, Marco Source: Physics of Life Reviews Volume: 16 Pages: 163-175 Published: MAR 2016 Times Cited: 12 DOI: 10.1016/j.plrev.2015.11.006
 15. Title: The re-embodiment of bodies, tools, and worlds after spinal cord injury: An intricate picture Reply to comments on "The embodiment of assistive devices-From wheelchair to exoskeleton" Author(s): Pazzaglia, Mariella; Molinari, Marco Source: Physics of Life Reviews Volume: 16 Pages: 191-194 Published: MAR 2016 Times Cited: 1 DOI: 10.1016/j.plrev.2016.02.004
 16. Title: Brain-Computer Interface Boosts Motor Imagery Practice during Stroke Recovery Author(s): Pichiorri, Floriana; Morone, Giovanni; Petti, Manuela; et al. Source: Annals of Neurology Volume: 77 Issue: 5 Pages: 851-865 Published: MAY 2015 Times Cited: 31 DOI: 10.1002/ana.24390
 17. Title: Cerebellar damage impairs the self-rating of regret feeling in a gambling task Author(s): Clausi, Silvia; Coricelli, Giorgio; Pisotta, Iolanda; et al. Source: Frontiers in Behavioral Neuroscience Volume: 9 Published: MAY 5 2015 Times Cited: 1 DOI: 10.3389/fnbeh.2015.00113
 18. Title: Cerebellar Sequencing: a Trick for Predicting the Future Author(s): Leggio, M.; Molinari, M. Source: Cerebellum Volume: 14 Issue: 1 Pages: 35-38 Published: FEB 2015 Times Cited: 8 DOI: 10.1007/s12311-014-0616-x
 19. Title: Consensus Paper: The Role of the Cerebellum in Perceptual Processes Author(s): Baumann, Oliver; Borra, Ronald J.; Bower, James M.; et al. Source: Cerebellum Volume: 14 Issue: 2 Pages: 197-220 Published: APR 2015 Times Cited: 20 DOI: 10.1007/s12311-014-0627-7
 20. Title: Design and Control of the MINDWALKER Exoskeleton Author(s): Wang, Shiqian; Wang, Letian; Meijneke, Cory; et al. Source: IEEE Transactions on Neural Systems and Rehabilitation Engineering Volume: 23 Issue: 2 Pages: 277-286 Published: MAR 2015 Times Cited: 4 DOI: 10.1109/TNSRE.2014.2365697
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C. Research Support:

National Grants

- 1992 Recipient of grant CNR, (n. 92.02706.CT04).
- 1993 Recipient of grant CNR, (n. 93.04538.CT04).
- 1993 Recipient of grant MURST 60% .
- 1994 Recipient of grant CNR, (n. 94.02782.CT04).
- 1995 Recipient of grant CNR, (n. 95.02353.CT04).
- 1996 Recipient of grant CNR, (n. 96.03121.CT04)
- 1997 Recipient of grant MURST 40% 7020404
- 1998 Recipient of grant CNR, (n. 98.03093. CT04)
- 1999 Recipient of grant finalizzato Ministero Salute ICS120.3/RF00.99
- 2000 Recipient of grant finalizzato Ministero Salute ICS120.3/RA00. 85 - 80.500€
- 2001 Recipient of grant CNR, (n. CU01.00936.CT26)
- 2002 Recipient of grant finalizzato Ministero Salute RF01.37 - 31.000 €
- 2003 Recipient of grant finalizzato ISPESL/Fondazione S. Lucia ISPELS.7 - 172.500 €
- 2003 Recipient of grant as head unit progetto finalizzato Ministero Salute RF02.23– 33.000€
- 2004 Recipient of grant FIRB RBNE01H3K5. - 63.000 €
- 2006 Recipient of grant finalizzato ISPESL/Fondazione S. Lucia ISPELS.9 – 10.000€
- 2006 Recipient of grant as head unit finalizzato Ministero Salute RF05.105.M - 48.500€
- 2007 Recipient of grant as head unit finalizzato Ministero Salute PS05.20 - € 36.000.
- 2007 Recipient of grant FSM MAU.1 - € 77.000,00.
- 2007 Titolare UO progetto Tools per la riabilitazione PS05.20 - € 36.000.
- 2014 Ministero della Salute. - RF-2011-02348213 “Neurophysiological approach to evaluate cerebro-cerebellar interactions. Characterization of a cerebellar connectivity EEG index.” – M Molinari PI. - €248.710
- 2015 Titolare UO- Regione Lazio LR13/2008 Avviso Pubblico "Progetti di Ricerca presentati da Università e Centri di Ricerca" FILAS RU 2014-1033 – €250.000

International Grants

- 2008 Autism Speaks Grant Number: 4919. - MM Associate Investigator (PI: Flavio Keller) - \$324,340.
 - 2008 ICT-2007-224631- TOBI -FSL clinical center - MM Associate Investigator € 400.000,00
 - 2010 ICT-2009-247935- BETTER - FSL clinical center - MM Associate Investigator € 232.950,00
 - 2010 ICT-2009-247959- MindWalker - FSL clinical center – MM Ethical Manager € 400.000,00
 - 2011 Wings for Life Foundation – PI M.T. Viscomi – MM Lab Head - € 100.000.
 - 2012 IRP/IFP Foundation IRP, P133 - PI M. Pazzaglia – MM Dept Head - CHF 150.000. .
 - 2013 IRP/IFP Foundation, P141 - PI M.T. Viscomi – MM Lab Head - CHF 75.000.
 - 2013 CNECT-ICT-611626 – Symbitron – MM WP Leader - € 567.000,00.
 - 2016 - H2020-PHC-2015-single-stage_RTD - PHC-15-2015 – NISCI - MM Team Leader - € 166.414€
 - 2016 - H2020-FTIPilot-2015-1 – grant # 699796 , HANK - MM Team Leader - €213125
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