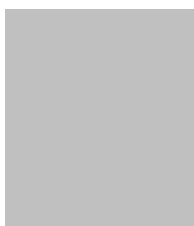



PERSONAL INFORMATION

Michele Papa



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 Michele.papa@unina2.it

 www.aiscoa.org

Sex M | Date of birth 09/08/1957 | Nationality Italiana

POSITION

Full Professor of Human Anatomy School of Medicine – Università degli Studi della Campania – Luigi Vanvitelli-;

STUDIES

Honors degree in Medicine and Surgery in 1983

WORK EXPERIENCE

- 2015 Full Professor of Human Anatomy School of Medicine - Università degli Studi della Campania – Luigi Vanvitelli-
- 2001-20015 Associate Professor of Human Anatomy School of Medicine - Università degli Studi della Campania – Luigi Vanvitelli-
- 1992-2001 Ricercatore of Human Anatomy School of Medicine - Università degli Studi della Campania – Luigi Vanvitelli-

EDUCATION AND TRAINING

In 1993; 1994; 1995; 1996; 1999; 2002; 2011; 2015; visiting scientist at Dept of Neurobiology, Weizmann Institute of Science, Rehovot – Israel, Prof. Menahem Segal, , field of interest: Plasticity of dendritic spines in neuronal culture: ultrastructural and confocal laser scanning microscopy.

In 1995 visiting scientist, at Neurofisiologie Inst. University di Oslo, Norway, Prof. Terje Sagvolden, field of interest: The neural substrates of attentional deficit and hyperactivity disorders in children and animal models.

in 1998 visiting scientist, at Dept di Neurobiology, della University of California Davis - USA, Prof. E.J. Jones, field of interest: Study of striatal neurons by double labeling techniques.

PERSONAL SKILLS

Mother tongue(s) ITALIAN

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2
French	B1/B2	B1/B2	B1/B2	B1/B2	B1/B2

Communication skills Good communication skills acquired during my work as a university teacher in the classroom and in the many conferences I attended

Organisational / managerial skills Organization of scientific conferences, scientific director of several national and international scientific projects. Coordinator of a working team consisting of 5 people.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Basic user	Independent user

Research main topics: Analysis in cellular and animal models of the determinants of neuronal plasticity and definition of the processes of astro and microgliosis in the quadripartite synapse

Definition of neuronal correlates of consciousness in post-anoxic patients affected by disorders of the state of consciousness: vegetative and minimal consciousness state. by functional imaging techniques

Analysis of neural correlates of cognitive disorders using fMRI and DTI

Awards and scientific assignments

2018: Member of the Scientific Selection Committee for the "Rita Levi Montalcini Program" on behalf of the Ministry of the University and Research as a "Scholar of high scientific qualification in the international sphere" Gazzetta Ufficiale Serie Generale n. 47 del 26 febbraio 2018.

2013: Invited Discussant Italian Embassy, Washington DC, Closing event of the Year of Italian Culture in the USA Symposium: in memory of Rita Levi-Montalcini – Foresight in medicine: research induced society in the next decade".

2012: Member of the Scientific Committee of the Istituto Superiore di Sanità representing the Minister of University and Research.

2012: President-elect of the Italian Association for the Study of Consciousness and its alterations

2010: Invited Speaker of the 14th International Biotechnology Symposium: "Targeting reactive astroglialosis by novel biotechnological strategies"

2009: 05/02 Report by invitation to the Justice Commission of the Senate of the Italian Republic, Palazzo Madama - Roma "Tecniche di Neuroimaging nell'analisi dei Disordini della Coscienza"

Grants

PRIN 2015: Perception, Performativity and Cognitive Sciences
Durata 24 mesi Partecipante Unità

Sysbionet Project (2012) – CNR Bioimmagini – Segrate Durata 24 mesi Responsabile Unità

PRIN 2007: Sviluppo del nerve growth factor (NGF) come farmaco per il trattamento di patologie oculari e del sistema nervoso centrale Durata 24 mesi Responsabile Unità

FIRB Internazionalizzazione 2005: SVILUPPO E ANALISI DI TECNICHE DI IMAGING IN RMNF PER LO STUDIO DEL COMA. Durata 48 mesi Coordinatore Progetto

Ricerca Regione Campania L.R. N.5 del 28.03.2002 (2005) Durata 12 mesi Coordinatore Progetto

PRIN 2004: Mediatori gliali della infiammazione nel dolore neuropatico sperimentale e prospettive terapeutiche Durata 24 mesi Responsabile Unità

Consiglio Nazionale delle Ricerche Settore Tematico "Neurobiotecnologie" 2003 Durata 24 mesi Responsabile Unità

PRIN 2002: Studio anatomico-funzionale e metabolico in vivo e morfo-molecolare ex vivo in due malattie neurodegenerative: la sclerosi laterale amiotrofica e l'atassia spinocerebellare tipo 1. Durata 24 mesi Responsabile Unità

Programmi Speciali Ministero della Sanità 2001 Durata 24 mesi Responsabile Unità

PRIN 2000: Meccanismi cellulari e molecolari in un modello sperimentale di corea di Huntington. Durata 24 mesi Responsabile Unità

PRIN 1998: Modulazione Dei Segnali Inter- Ed Intracellulari Nella Neurotossicità. Durata 24 mesi Responsabile Unità

Contributo di Ricerca CNR : Comitato Nazionale Biotecnologie e Biologia (1997) Durata 12 mesi Coordinatore

Contributo di Ricerca CNR: Comitato Nazionale Biotecnologie e Biologia Molecolare. (1996) Durata 24 mesi Coordinatore Progetto.

Publications

Scopus 06/2018 :

Documents: 62

Citations: 2156 Citations from 1763 documents

h-index : 28

Co-authors : 150

Subject area: Neuroscience, Biochemistry, Genetics and Molecular Biology

Colangelo AM, Martorana F, Gaglio D, Bianco MR, Aprea F, Virtuoso A, Bonanomi M, Alberghina L, and Michele Papa Differentiation by Nerve Growth Factor (NGF) involves mechanisms of crosstalk between energy homeostasis and mitochondrial remodeling Cell Death & Disease, 2018 Mar 9;9(3):391. doi: 10.1038/s41419-018-0429-9.

Giordano GM, Stanziano M, Papa M, Mucci A, Prinster A, Soricelli A, Galderisi S. Functional connectivity of the ventral tegmental area and avolition in subjects with schizophrenia: a resting state functional MRI study. Eur Neuropsychopharmacol. 2018 May;28(5):589-602. doi: 10.1016/j.euroneuro.2018.03.013.

De Luca C, Virtuoso A, Maggio N, Papa M. Neuro-Coagulopathy: Blood Coagulation Factors in Central Nervous System Diseases. Int J Mol Sci. 2017 Oct 12;18(10). doi: 10.3390/ijms18102128.

De Luca C, Papa M. Matrix Metalloproteinases, Neural Extracellular Matrix, and Central Nervous System Pathology. *Progress in Molecular Biology and Translational Science*, DOI: 10.1016/bs.pmbts.2017.04.002

Cirillo G, Colangelo AM, De Luca C, Savarese L, Barillari MR, Alberghina L, Papa M. Modulation of Matrix Metalloproteinases Activity in the Ventral Horn of the Spinal Cord Re-stores Neuroglial Synaptic Homeostasis and Neurotrophic Support following Peripheral Nerve Injury. *PLoS One*. 2016 Mar 30;11(3):

Romano G, Santi L, Bianco MR, Giuffrè MR, Pettinato M, Bugarin C, Garanzini C, Savarese L, Leoni S, Cerrito MG, Leone BE, Gaipa G, Grassilli E, Papa M, Lavitrano M, Giovannoni R. The TGF- β pathway is activated by 5-fluorouracil treatment in drug resistant colorectal carcinoma cells. *Oncotarget*. 2016 Mar 3.

Cirillo G, Papa M. Beyond peripheral nerve injury: spinal gliopathy and maladaptive synaptic plasticity. *Neural Regen Res*. 2016 Sep;11(9):1422-1423.

De Luca C, Papa M. Looking Inside the Matrix: Perineuronal Nets in Plasticity, Maladaptive Plasticity and Neurological Disorders. *Neurochem Res*. 2016 Mar 2.

Calderone A, Formenti M, Aprea F, Papa M, Alberghina L, Colangelo AM, Bertolazzi P. Comparing Alzheimer's and Parkinson's diseases networks using graph communities structure. *BMC Syst Biol*. 2016 Mar 2;10(1):25.

De Luca C, Savarese L, Colangelo AM, Bianco MR, Cirillo G, Alberghina L, Papa M. Astrocytes and Microglia-Mediated Immune Response in Maladaptive Plasticity is Differently Modulated by NGF in the Ventral Horn of the Spinal Cord Following Peripheral Nerve Injury. *Cell Mol Neurobiol*. 2016 Jan;36(1):37-46.

Cirillo G, Colangelo AM, Berbenni M, Ippolito VM, De Luca C, Verdesca F, Savarese L, Alberghina L, Maggio N, Papa M. Purinergic Modulation of Spinal Neuroglial Maladaptive Plasticity Following Peripheral Nerve Injury. *Mol Neurobiol*. 2015 Dec;52(3):1440-57.

Papa M, De Luca C, Petta F, Alberghina L, Cirillo G. Astrocyte-neuron interplay in maladaptive plasticity. *Neurosci Biobehav Rev*. 2014 May;42:35-54. doi: 10.1016/j.neubiorev.2014.01.010. Epub 2014 Feb 6. PubMed PMID: 24509064.

Colangelo AM, Alberghina L, Papa M. Astroglialosis as a therapeutic target for neurodegenerative diseases. *Neurosci Lett*. 2014 Apr 17;565:59-64. doi: 10.1016/j.neulet.2014.01.014. Epub 2014 Jan 20. Review. PubMed PMID: 24457173.

Marcello L, Cavaliere C, Colangelo AM, Bianco MR, Cirillo G, Alberghina L, Papa M. Remodelling of supraspinal neuroglial network in neuropathic pain is featured by a reactive gliosis of the nociceptive amygdala. *Eur J Pain*. 2013 Jul;17(6):799-810. doi: 10.1002/j.1532-2149.2012.00255.x. Epub 2012 Nov 27. PubMed PMID: 23193101.

Maggio N, Cavaliere C, Papa M, Blatt I, Chapman J, Segal M. Thrombin regulation of synaptic transmission: implications for seizure onset. *Neurobiol Dis*. 2013 Feb;50:171-8. doi: 10.1016/j.nbd.2012.10.017. Epub 2012 Oct 25. PubMed PMID: 23103417.

Cirillo G, De Luca D, Papa M. Calcium imaging of living astrocytes in the mouse spinal cord following sensory stimulation. *Neural Plast*. 2012;2012:425818. doi: 10.1155/2012/425818. Epub 2012 Oct 2. PubMed PMID: 23091738; PubMed Central PMCID: PMC3468146.

Bianco MR, Cirillo G, Petrosino V, Marcello L, Soleti A, Merizzi G, Cavaliere C, Papa M. Neuropathic pain and reactive gliosis are reversed by dialdehydic compound in neuropathic pain rat models. *Neurosci Lett*. 2012 Nov 14;530(1):85-90. doi: 10.1016/j.neulet.2012.08.088. Epub 2012 Sep 12. PubMed PMID: 22981978.

- Bruno MA, Fernández-Espejo D, Lehembre R, Tshibanda L, Vanhaudenhuyse A, Gosseries O, Lommers E, Napolitani M, Noirhomme Q, Boly M, Papa M, Owen A, Maquet P, Laureys S, Soddu A. Multimodal neuroimaging in patients with disorders of consciousness showing "functional hemispherectomy". *Prog Brain Res.* 2011;193:323-33. doi: 10.1016/B978-0-444-53839-0.00021-1. PubMed PMID: 21854972.
- Colangelo AM, Cirillo G, Lavitrano ML, Alberghina L, Papa M. Targeting reactive astrogliosis by novel biotechnological strategies. *Biotechnol Adv.* 2012 Jan-Feb;30(1):261-71. doi: 10.1016/j.biotechadv.2011.06.016. Epub 2011 Jul 5. Review. PubMed PMID: 21763415.
- Stanziano M, Foglia C, Soddu A, Gargano F, Papa M. Post-anoxic vegetative state: imaging and prognostic perspectives. *Funct Neurol.* 2011 Jan-Mar;26(1):45-50. Review. PubMed PMID: 21693088; PubMed Central PMCID: PMC3814506.
- Soddu A, Vanhaudenhuyse A, Demertzi A, Bruno MA, Tshibanda L, Di H, Mélanie B, Papa M, Laureys S, Noirhomme Q. Resting state activity in patients with disorders of consciousness. *Funct Neurol.* 2011 Jan-Mar;26(1):37-43. Review. PubMed PMID: 21693087; PubMed Central PMCID: PMC3814510.
- Cirillo G, Colangelo AM, Bianco MR, Cavaliere C, Zaccaro L, Sarmientos P, Alberghina L, Papa M. BB14, a Nerve Growth Factor (NGF)-like peptide shown to be effective in reducing reactive astrogliosis and restoring synaptic homeostasis in a rat model of peripheral nerve injury. *Biotechnol Adv.* 2012 Jan-Feb;30(1):223-32. doi: 10.1016/j.biotechadv.2011.05.008. Epub 2011 May 18. PubMed PMID: 21620945.
- Bianco MR, Berbenni M, Amara F, Viggiani S, Fragni M, Galimberti V, Colombo D, Cirillo G, Papa M, Alberghina L, Colangelo AM. Cross-talk between cell cycle induction and mitochondrial dysfunction during oxidative stress and nerve growth factor withdrawal in differentiated PC12 cells. *J Neurosci Res.* 2011 Aug;89(8):1302-15. doi: 10.1002/jnr.22665. Epub 2011 May 6. PubMed PMID: 21557293.
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- Cirillo G, Maggio N, Bianco MR, Vollono C, Sellitti S, Papa M. Discriminative behavioral assessment unveils remarkable reactive astrocytosis and early molecular correlates in basal ganglia of 3-nitropropionic acid subchronic treated rats. *Neurochem Int.* 2010 Jan;56(1):152-60. doi: 10.1016/j.neuint.2009.09.013. Epub 2009 Sep 30. PubMed PMID: 19799953.
- Cirillo G, Cavaliere C, Bianco MR, De Simone A, Colangelo AM, Sellitti S, Alberghina L, Papa M. Intrathecal NGF administration reduces reactive astrocytosis and changes neurotrophin receptors expression pattern in a rat model of neuropathic pain. *Cell Mol Neurobiol.* 2010 Jan;30(1):51-62. doi: 10.1007/s10571-009-9430-2. Epub 2009 Jul 8. PubMed PMID: 19585233.
- Leo D, Adriani W, Cavaliere C, Cirillo G, Marco EM, Romano E, di Porzio U, Papa M, Perrone-

Capano C, Laviola G. Methylphenidate to adolescent rats drives enduring changes of accumbal Htr7 expression: implications for impulsive behavior and neuronal morphology. *Genes Brain Behav.* 2009 Apr;8(3):356-68. doi: 10.1111/j.1601-183X.2009.00486.x. Epub 2009 Feb 19. PubMed PMID: 19243449.

Musholt K, Cirillo G, Cavaliere C, Rosaria Bianco M, Bock J, Helmeke C, Braun K, Papa M. Neonatal separation stress reduces glial fibrillary acidic protein-and S100beta-immunoreactive astrocytes in the rat medial precentral cortex. *Dev Neurobiol.* 2009 Mar;69(4):203-11. doi: 10.1002/dneu.20694. PubMed PMID: 19137572.

Cavaliere C, Cirillo G, Rosaria Bianco M, Rossi F, De Novellis V, Maione S, Papa M. Gliosis alters expression and uptake of spinal glial amino acid transporters in a mouse neuropathic pain model. *Neuron Glia Biol.* 2007 May;3(2):141-53. doi: 10.1017/S1740925X07000695. PubMed PMID: 18634571.

Giovanoni R, Maggio N, Rosaria Bianco M, Cavaliere C, Cirillo G, Lavitrano M, Papa M. Reactive astrocytosis and glial glutamate transporter clustering are early changes in a spinocerebellar ataxia type 1 transgenic mouse model. *Neuron Glia Biol.* 2007 Nov;3(4):335-51. doi: 10.1017/S1740925X08000185. PubMed PMID:18634565.

Colangelo AM, Bianco MR, Vitagliano L, Cavaliere C, Cirillo G, De Gioia L, Diana D, Colombo D, Redaelli C, Zaccaro L, Morelli G, Papa M, Sarmientos P, Alberghina L, Martegani E. A new nerve growth factor-mimetic peptide active on neuropathic pain in rats. *J Neurosci.* 2008 Mar 12;28(11):2698-709. doi: 10.1523/JNEUROSCI.5201-07.2008. PubMed PMID: 18337399.

Esposito G, Iuvone T, Savani C, Scuderi C, De Filippis D, Papa M, Di Marzo V, Steardo L. Opposing control of cannabinoid receptor stimulation on amyloid-beta-induced reactive gliosis: in vitro and in vivo evidence. *J Pharmacol Exp Ther.* 2007 Sep;322(3):1144-52. Epub 2007 Jun 1. PubMed PMID: 17545311.

Manzini S, Vargiolu A, Stehle IM, Bacci ML, Cerrito MG, Giovanoni R, Zannoni A, Bianco MR, Forni M, Donini P, Papa M, Lipps HJ, Lavitrano M. Genetically modified pigs produced with a nonviral episomal vector. *Proc Natl Acad Sci U S A.* 2006 Nov 21;103(47):17672-7. Epub 2006 Nov 13. PubMed PMID: 17101993; PubMed Central PMCID: PMC1635978.

Webster NL, Forni M, Bacci ML, Giovanoni R, Razzini R, Fantinati P, Zannoni A, Fusetti L, Dalprà L, Bianco MR, Papa M, Seren E, Sandrin MS, Mc Kenzie IF, Lavitrano M. Multi-transgenic pigs expressing three fluorescent proteins produced with high efficiency by sperm mediated gene transfer. *Mol Reprod Dev.* 2005 Sep;72(1):68-76. PubMed PMID: 15906394.

Mezzogiorno A, Caruso AA, Lorio L, Papa M, Esposito V. Pietro Anzolino da Eboli and the thermal therapy of renal pathologies. *J Nephrol.* 2004 Mar-Apr;17(2):329-33. PubMed PMID: 15293539.

Saulle E, Gubellini P, Picconi B, Centonze D, Tropepi D, Pisani A, Morari M, Marti M, Rossi L, Papa M, Bernardi G, Calabresi P. Neuronal vulnerability following inhibition of mitochondrial complex II: a possible ionic mechanism for Huntington's disease. *Mol Cell Neurosci.* 2004 Jan;25(1):9-20. PubMed PMID: 14962736.

Sirangelo I, Malmo C, Iannuzzi C, Mezzogiorno A, Bianco MR, Papa M, Irace G. Fibrillogenesis and cytotoxic activity of the amyloid-forming apomyoglobin mutant W7FW14F. *J Biol Chem.* 2004 Mar 26;279(13):13183-9. Epub 2003 Dec 30. PubMed PMID: 14701846.

Bonsi P, Calabresi P, De Persis C, Papa M, Centonze D, Bernardi G, Pisani A. Early ionic and membrane potential changes caused by the pesticide rotenone in striatal cholinergic interneurons. *Exp Neurol.* 2004 Jan;185(1):169-81. PubMed PMID: 14697328.

Papa M, Boscia F, Canitano A, Castaldo P, Sellitti S, Annunziato L, Tagliatela M. Expression pattern of the ether-a-gogo-related (ERG) K⁺ channel-encoding genes ERG1, ERG2, and ERG3 in the adult rat central nervous system. *J Comp Neurol.* 2003 Nov 3;466(1):119-35. PubMed PMID: 14515244.

Papa M, Canitano A, Boscia F, Castaldo P, Sellitti S, Porzig H, Tagliatela M, Annunziato L. Differential expression of the Na⁺-Ca²⁺ exchanger transcripts and proteins in rat brain regions. *J Comp Neurol.*

2003 Jun 16;461(1):31-48. PubMed PMID: 12722103.

Canitano A, Papa M, Boscia F, Castaldo P, Sellitti S, Tagliatela M, Annunziato L. Brain distribution of the Na⁺/Ca²⁺ exchanger-encoding genes NCX1, NCX2, and NCX3 and their related proteins in the central nervous system. *Ann N Y Acad Sci.* 2002 Nov;976:394-404. Review. PubMed PMID: 12502586.

Sirangelo I, Malmo C, Casillo M, Mezzogiorno A, Papa M, Irace G. Tryptophanyl substitutions in apomyoglobin determine protein aggregation and amyloid-like fibril formation at physiological pH. *J Biol Chem.* 2002 Nov 29;277(48):45887-91. Epub 2002 Sep 19. PubMed PMID: 12244112.

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Maggio N, Sellitti S, Capano CP, Papa M. Tissue-transglutaminase in rat and human brain: light and electron immunocytochemical analysis and in situ hybridization study. *Brain Res Bull.* 2001 Oct-Nov 1;56(3-4):173-82. PubMed PMID: 11719248.

Papa M, Sellitti S, Sadile AG. Remodeling of neural networks in the anterior forebrain of an animal model of hyperactivity and attention deficits as monitored by molecular imaging probes. *Neurosci Biobehav Rev.* 2000 Jan;24(1):149-56. PubMed PMID: 10654672.

Papa M, Berger DF, Sagvolden T, Sergeant JA, Sadile AG. A quantitative cytochrome oxidase mapping study, cross-regional and neurobehavioural correlations in the anterior forebrain of an animal model of Attention Deficit Hyperactivity Disorder. *Behav Brain Res.* 1998 Jul;94(1):197-211. PubMed PMID: 9708850.

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Carey MP, Diewald LM, Esposito FJ, Pellicano MP, Gironi Carnevale UA, Sergeant JA, Papa M, Sadile AG. Differential distribution, affinity and plasticity of dopamine D-1 and D-2 receptors in the target sites of the mesolimbic system in an animal model of ADHD. *Behav Brain Res.* 1998 Jul;94(1):173-85. PubMed PMID: 9708848.

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Articles in textbook

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Monograph or scientific treatise

Mezzogiorno V., Esposito V., Papa M., Passiatore C., Valentino B. (1999). *Testo e Atlante di Anatomia Umana -Volume I - Testo.* vol. I, p. 1-704, Piccin Nuova Libreria Padova, ISBN: 88-299-1197-6

Mezzogiorno V., Esposito V., Papa M., Passiatore C., Valentino B. (1999). *Testo e Atlante di Anatomia Umana -Volume II - Atlante* vol. II, p. 1-536, Piccin Nuova Libreria Padova, ISBN: 88-299-1197-6

Esposito V., Papa M., Passiatore C., De Luca A., Mezzogiorno A. (2009). *Anatomia Umana -Volume I - Apparato Locomotore e Sistema Cardiovascolare.* vol. I, p. 1-907, Piccin Nuova Libreria Padova, ISBN: 978-88-299-1975-8

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2012 Associazione Italiana per lo studio della Coscienza e delle sue Alterazioni, L'ANALISI SCIENTIFICA DELLA COSCIENZA E DELLE SUE ALTERAZIONI :Temi e Problemi

2010 "3rd International Conference on Coma and Consciousness"

2006 "The Brain and Beyond"

2005 Wiring Brain: Analisi Morfofunzionale dei circuiti cerebrali 2003 Imaging neurones: current tools in neuroscience

2002 Transgenic animal models to study neurodegenerative disorders .

Memberships

Società Italiana di Anatomia e Istologia;
Società Italiana di Neuroscienze;
Federation of European Neuroscience Societies
Society for Neuroscience – USA

Journal reviewer

Associate Editor Frontiers in Molecular Neuroscience
European Journal of Neuroscience
Brain Research Bulletin
PLoS ONE
Neurological Sciences
Neurobiology of Disease
Progress in Neurobiology
European Journal of Pain
Molecular Pain
Cellular and Molecular Neurobiology
Clinical Neurophysiology
Life Sciences
Computer Methods and Programs in Biomedicine
Frontiers in Molecular Neuroscience
The European Journal of Pharmacology
Experimental Neurology
Behavioural Brain Research
Histology and Histopathology
BMC Neuroscience
Neuroscience & Biobehavioral Reviews
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Molecular Neurobiology
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Neural Regeneration Research
Translational Neurodegeneration
Scientific World Journal
Frontiers in Behavioral Neuroscience
Neurochemical Research

Anesthesiology

Editorial board

Functional Neurology Dal 01/2011 Al 11/2012
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Award research assignments
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Weizmann Institute of Science - Rehovot - Israel 03/1993 10/1993
Weizmann Institute of Science - Rehovot - Israel 06/1994 10/1994
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transfer in terms of participation in
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(spin-offs), development, use and
commercialization of patents

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RM2007A000119

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