

Maria-Grazia MARTINOLI, Ph. D.

Department of Medical Biology
Université du Québec à Trois-Rivières
Director,
Laboratory of Cellular Neurobiology

Degrees

Position	Organisation	Departement	
Postdoctorate fellow	McGill University (Canada)	Neurology	1993/06 – 1994/05
Postdoctorate fellow	Harvard University (USA)	Molecular Biology & Genetics	1991/07 – 1993/07
Ph. D.	Laval University (Canada)	Physiology (major Neuroendocrinology)	1987/09-1991/07
M. Sc. (Laurea sperimentale)	University of Turin (Italy)	Neurobiology	1981/10-1986/07

Awards

Jan. 1988-June 1991: Studentship, Fondation de l'Université Laval, Canada.
Apr.1990-July 1991: Studentship, Medical Research Council of Canada.
Aug. 1991-1994: Fellowship, Medical Research Council of Canada.
June 1991: Fellowship, Fonds de la recherche en santé du Québec.

Employment

Status	Organisation	Unit	
Full Professor	UQTR (Canada)	Dept. Medical Biology	2004/06 - present
Adjunct Professor	UQTR (Canada)	Dept. Medical Biology	1998/06 - 2004/05
Assistant Professor	UQTR (Canada)	Dept. Biochemistry	1994/06 – 1998/05
Director	UQTR (Canada)	Dept. Medical Biology	2013/01 – 2015/05
Chief	UQTR (Canada)	Section Medical Biology	2009/05 - 2011/12
Director	UQTR (Canada)	Research Group in Neurosciences	2001/1 - 2008/12
Director	UQTR (Canada)	Graduate Program in Cellular Biology	1999/06- 2001/06
Chargée de recherche du CNRS (poste rouge)	CNRS (France)	Université de Bordeaux I	1996/09 – 1997/09

Areas of Research: Cellular Degeneration, Cellular Aging, Neuroendocrinology, Neurotoxicity, Nutraceuticals and Functional Foods.

Research Specialization: Glucose Homeostasis, Neurodegeneration., Neuroprotection, Nutraceuticals, Oxidative Stress, Phytosterols, Stress Response.

Present funding:

2015/4 - 2020/4, Principal Applicant, Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grant, individual grant.

Student Supervision - last 6 years

Student's name	Status	Organisation	
Jimmy Beaulieu, NSERC studentship	Master	UQTR	2016/01- present
Justine Renaud, Vanier studentship	Ph.D.	UQTR	2015/01 - present
Melodie Plourde	Research Associate	UQTR	2014/01 - present
Lisa Bergeron, NSERC studentship	Bachelor's Honours	UQTR	2018-05- present
Karine Dufresne	Master	UQTR	2015/01 - 2018/05
Emilie Tardif-Pelletier	Bachelor's Honours	UQTR	2017/05-2017/12

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Alex Gélinas	Master	UQTR	2014/09 - 2016/09
Valerie Leblanc	Research Associate	UQTR	2015/09- 2016-09
Pavlina Haskova European Social Fund Fellow	Post-doctorate fellow	Charles University, Prague, Czech Rep.	2013/07 - 2014/07
Romain Rio	Bachelor's Equivalent	IUT-Quimper (France)	2015/04 - 2015/07
Audrey-Anne St-Yves	Bachelor's Honours	UQTR	2016/01 - 2016/05
Natasha St-Armand- Luna	Bachelor	UQTR	2015/01 - 2015/05
Karine Dufresne	Bachelor	UQTR	2014/09 - 2015/01
Malo Beringer	Bachelor's Equivalent	IUT-Quimper (France)	2014/03 - 2014/07
Marion Tayol	Bachelor's Equivalent	U. Lyon (France)	2013/01 - 2013/07
Khaoula Haddadoui	Bachelor's Honours	UQTR	2013/01 - 2013/06
Sitraka Ramamonjisoa	Bachelor	UQTR	2013/01 - 2013/06
Imène Achour, C.E.U. studentship	Master	UQTR	2012/07 - 2015/04
Ximena Zottig	Bachelor	UQTR	2012/6 - 2014/5
Justine Renaud	Master	UQTR	2012/05 - 2013/10
Anne-Marie Arel- Dubeau, C.E.U. studentship	Master	UQTR	2011/07 - 2014/10

Articles: last 6 years

- J. Renaud, V. Bassareo, J. Beaulieu, A. Pinna, M. Schlich, C. Lavoie, D. Murtas, N. Simola, **M.-G. Martinoli** (2018). Dopaminergic neurodegeneration in a rat model of long-term hyperglycemia: preferential degeneration of the nigrostriatal motor pathway. *Neurobiol. Aging*, 2018, in press, DOI: 10.1016/j.neurobiolaging.2018.05.010
- D. Sergi, A. C. Morris, D. E. Kahn, F.H. McLean, P. Kibitz, **M-G. Martinoli**, J. E. Drew, L. M. Williams. Palmitic acid triggers inflammatory responses in neurons partially via ceramide synthesis but not via TLR4. *Nutritional Neuroscience*, submitted, May 2018.
- E. Attard and **M-G. Martinoli** (2017). "What are the Prospects of Treating Neurodegenerative Diseases with Natural Products?" *EC Neurology* 7.1 : 26-33.
- S. Touj, S. Houle, D. Ramla, R. Jeffrey-Gauthier, H. Hotta, G. Bronchti, **M-G. Martinoli**, M. Piché (2017). Sympathetic regulation and anterior cingulate cortex morphology are altered in a rat model of chronic back pain. *Neuroscience*, 352: 9–18.
- J. Renaud and **M-G. Martinoli** (2017). Prevention of neuroinflammation by resveratrol: Focus on experimental models and molecular mechanisms. Chapter 22 in "Neuroprotective Effects of Phytochemicals in Neurological disorders". Eds: T. Farooqui and A. Farooqui. DOI: 10.1002/9781119155195.ch18 , pp.377-394. Jan. 2017.
- I. Achour, A-M. Arel-Dubeau, J. Renaud, E. Attard, M. Legrand, M. Germain, **M-G. Martinoli** (2016) Anti-oxidative properties of oleuropein in neuronal cells: modulation of apoptosis and autophagy. *Int. J. Mol. Sci.* 2016, 17, 1293; doi:10.3390/ijms17081293.
- J. Renaud and **M-G. Martinoli** (2016) Setting up an insert co-culture system to assess cellular changes mediated by secreted soluble factors in the absence of cell-cell contact. *Journal of Visualized Experiments (JoVE)*, J. Vis. Exp. (113), e54356, doi:10.3791/54356 (2016).
- J. Renaud, H-M. Thérien, M. Plouffe, **M-G. Martinoli** (2015) La neuroinflammation : Dr Jekyll ou Mr Hyde ? *Médecine/Science*, 31 : 979-988.
- E. Attard and **M-G. Martinoli** (2015) Cucurbitacin E, an experimental lead triterpenoid with anticancer, immunomodulatory and novel effects against degenerative diseases. A mini-review. Invited review, *Curr Topics Med. Chem.* 2015;15(17):1708-13.
- J. Renaud, S. F. Nabavi, M. Daglia, S. M. Nabavi, **M-G Martinoli** (2015) Epigallocatechin-3-gallate, a promising molecule for Parkinson's disease. *Rej. Research*, 18(3): 257-269. 2nd most cited article, 2015-2016.
- A-M Arel-Dubeau, F. Longpré, J. Bourniva¹, C. Tremblay, J. Demers-Lamarche, P. Haskova, E. Attard, M. Germain, **M-G. Martinoli** (2014). Cucurbitacin E has neuroprotective properties and

autophagic modulating activities on dopaminergic neurons. *Oxid. Med. Cell. Longev.* vol. 2014, Article ID 425496, 15 pages, 2014. doi:10.1155/2014/425496.

- J. Renaud and **M-G. Martinoli** (2014). Resveratrol as a protective molecule for neuroinflammation: a review of mechanisms. *Curr Pharm Biotechnol.* 15: 318-329. Invited review.
- C. Provencher, A. Bertolo, P. Magnan, **M-G. Martinoli** (2014) Reduction of specific apoptotic DNA fragmentation by natural UVR in fish larvae in field conditions. *O J. Apo.*, 3, (3) 39-51.
- J. Renaud, J. Bournival, X. Zottig and **Martinoli M-G.** (2014) Resveratrol protects DAergic PC12 cells from high glucose-induced oxidative stress and apoptosis: effect on p53 and GRP75 localization. *Neurotox. Res.* 25(1):110-23.
- J. Renaud, K. Chiasson, J. Bournival, C. Rouillard and **M-G. Martinoli** (2014) 17 β -estradiol delays 6-OHDA-induced apoptosis by acting on Nur77 translocation from the nucleus to the cytoplasm. *Neurotox. Res.* 25(1):124-34.
- J. Bournival, M. Plouffe, J. Renaud, C. Provencher and **M.-G. Martinoli** (2012) Quercetin and sesamin protect dopaminergic cells from MPP⁺-induced neuroinflammation in a microglial (N9)-neuronal (PC12) co-culture system. *Oxid. Med. Cell. Longev.* , 2012, Article ID 921941, 11 pages, doi:10.1155/2012/921941.
- J. Bounival, M-A. Francoeur, J. Renaud and **M-G. Martinoli** (2012) Quercetin and sesamin protect dopaminergic neurons from high-glucose –induced oxidation, nitrosative stress and apoptosis. *Rej. Research*, 15 (3), 322-333.
- J. Ismaili, M. Boisvert, F. Longpré, J. Carange, C. Le Gall, **M-G. Martinoli** and B. Daoust (2012) Brassinosteroids and analogs as neuroprotectors: synthesis and structure activity relationship. *Steroids*, 77: 91-99.
- J. Renaud, **M-G. Martinoli** (2012) Propriétés neuroprotectrices, antioxydantes et anti-inflammatoires du resvératrol sur les neurones dopaminergiques. *Médecine-Science* 1 (1). Numéro spécial MS/ACFAS 2011.

Proceedings and communications: I do not keep records