

- **PERSONAL INFORMATION**

Family name, First name: **Ronchi Giulia**

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Date of birth: 27/11/1982

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- **CURRENT POSITION**

Dec 2021-present: **Associate Professor BIO/16 (Human Anatomy)** (University of Torino, UNITO)

- **PREVIOUS POSITION**

Dec 2018-Dec 2021: **Assistant Professor (RTD-B)** (UNITO)

Jul 2017-Dec 2018: **Senior Research Fellow (RTD-A)** (UNITO)

- **EDUCATION**

Jan 2009-Dec 2012 **PhD in Neuroscience** (UNITO)

Oct 2005-Oct 2007: **Master degree in Neurobiology** (UNITO)

Oct 2001-Jul 2005: **Bachelor of Biology** (University of Milano-Bicocca)

- **PROFESSIONAL EXPERIENCES**

Apr 2017: **National habilitation** to serve as **Associate Professor of Human Anatomy**

Jan 2013-Jul 2017: **Post-doctoral fellowship recipient** (UNITO)

June 2006-Dec 2008: **Fellowship recipient** (UNITO)

Nov 2009-May 2010: **Exchanging scholar at the Washington State University** (Pullman, WA) under the supervision of Dr. Krzysztof Czaja.

- **TRAINING EXPERIENCES**

3-6 Sept 2018: Training "**Academic Teaching English**" organized by UNITO and British Council

Jun-July 2015: "**Training course of persons carrying out animal experiments**" organized by Neuroscience Institute of Turin and Neuroscience Institute of the Cavalieri-Ottolenghi Foundation

8-9-10 July 2013: Training in "**Successful Project Management**" - European School of Project Management, Collegno (TO)

4-13 Feb 2013: **Training at Medovent** (Mainz, Germany) within the European project FP7-BIOHYBRID

9-10 Nov 2012: Theoretical and practical **course on Stereology** at the Department of Histology and Embryology, Faculty of Medicine, Samsun, Turkey

19-21 Mar 2012: attendance at the "**BIOHYBRID course on surgical Procedures**" at the University of Malmo, Sweden, within the European project FP7-BIOHYBRID.

16-19 Jan 2012: attendance at the "**BIOHYBRID in vitro training course**" at the University of Hannover, Germany, within the European project FP7-BIOHYBRID.

- **AWARDS**

2009-2015: **Individual grants** for young researchers **to attend the following congresses:** (i) **PNS Biennial Meeting** (Quebec City, Quebec, Canada), Jun 28-July 2 2015; (ii) **15th International Symposium on Neural Regeneration (ISNR)**, Asilomar Conference Grounds, Pacific Grove, California USA, Dec 11-15, 2013; (iii) **XXII Convegno Nazionale GISN**, Bologna, 22-23 Nov 2012; (iv) **8th FENS**, Barcelona, Spain 14-18 Jul 2012; (v) **8th World congress of IBRO**, Florence (Italy), 14-18 Jul 2011; (vi) **7th FENS**, Amsterdam, Jul 2010; (vii) **XIV National Congress of the Italian Society for Neuroscience (SINS)**, Milan, 2-5 Oct 2009

- **TEACHING ACTIVITIES**

2021-present: **Faculty member** of the PhD Program "**Complex systems for quantitative biomedicine**"

2017-present: **Professor of Human Anatomy** (Master's Degree in **Medicine and Surgery** and Bachelor's degree in **Nursing**, UNITO)

2017-2018: **Professor of Human Anatomy** (Bachelor's degree in **Rehabilitation Sciences**, UNITO)
2013-2017: **Contract Professor of Human Anatomy** (Bachelor's degree in **Motor Sciences**, UNITO)

- **ORGANISATION OF SCIENTIFIC MEETINGS**

2022: Member of the **Scientific Committee** of the 94° Congress “Società Italiana di Biologia Sperimentale” (94° **SIBS**, 6-9 April 2022, Torino)

2014: Member of the **Organizing Committee** of the 2nd International Symposium on Peripheral Nerve Regeneration (2nd **ISPNR**, 24-25 Jan 2014, Torino)

- **EDITORIAL ACTIVITIES**

2021-present: **Editorial Board Member** of *Micro* (Microscale Biology and Medicines Section)

2021-2022: **Guest Editor** of the Special Issue "Regenerative Medicine for Peripheral Nerve Injury: Recent Advances, Emerging Therapies and Future Directions" in the *International Journal of Molecular Sciences*

2017-present: **Youth Editorial Board Member** of *Neural Regeneration Research*

2016-present: **Reviewer for international scientific journals**, including *Life Sciences*, *BioMed Research International*, *International Journal of Surgery*, *Neuroscience*, *Medical Science Monitor*, *Neural Regeneration Research*, *Acta Biomaterialia*, *Journal of Photochemistry and Photobiology B: Biology*, *BMC Neuroscience*, *Brain Research*, *Helyion*, *International Journal of Surgery*, *Journal of Neuroscience Methods*

- **FUNDING**

2022-2023: “GRANT for INTERNATIONALIZATION. Project entitled “Investigating the effect of microbiota on peripheral nerve regeneration” (Euro 15.233,00). Role: **PI**

2019-present: **KeriMedical** (Geneve, Switzerland). Project entitled: “Biodegradation of variants of Reaxon Direct in the rat median nerve model” (€ 74.162,50). Role: **Study Director**

2018-present: Biennal. Ricerca Locale Linea A (Reg. Delib. 1762) (ex 60%). Role: **PI**

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

From 2022: Member of the “Società Italiana di Biologia Sperimentale” (**SIBS**)

From 2014: Member of the “European Society for Peripheral Nerve Repair and Reconstruction” (**ESPNR**)

From 2008: Member of the “Gruppo Italiano per lo Studio della Neuromorfologia” (**GISN**)

- **INDUSTRIAL COLLABORATIONS**

2019-2022: **KeriMedical** (Geneve, Switzerland). Project entitled “Biodegradation of variants of Reaxon Direct in the rat median nerve model”. Role: **Study Director**

From 2018: **SILK BIOMATERIALS** (Como, Italy). Project entitled “Pre-clinical study on the use of Silk Fibroin (SF) conduits for the reconstruction of peripheral nerves”. Role: team member

From 2017: **BioON** (Bologna, Italy). Project entitled “Pre-clinical study to evaluate the implantation of PHA conduit for peripheral nerve reconstruction”. Role: Team member

- **ACADEMIC NATIONAL COLLABORATIONS** (in brackets the number of papers in collaboration)

Dott. Pierluigi Tos, Orthopaedic Institute Gaetano Pini, Milano; long-term collaboration started more than 10 years ago on clinical and experimental aspects of nerve regeneration (2)

Prof. Michele Colonna, University of Messina; studies on microsurgical techniques for nerve repair (4)

Prof. Andrea Graziani, Istituto San Raffaele, Milano; Role of Ghrelin on skeletal muscle atrophy and nerve regeneration (4)

Prof.ssa Adriana Cordova, University of Palermo; studies on delayed nerve repair (2)

Prof. Vania Broccoli, Istituto San Raffaele, Milano; studies on reprogramming fibroblasts into Schwann cells (1)

- **ACADEMIC INTERNATIONAL COLLABORATIONS**

Prof. Kirsten Haastert-Talini, and **Prof. Claudia Grothe**, Hannover Medical School, Germany; studies on different aspects of peripheral nerve regenerative process (8 and 3 respectively)

Prof. Ana Colette Maurício, Porto University, Portugal; studies on different types of tubulization to improve peripheral nerve regeneration (2)

Prof. Lars B. Dahlin, Lund University, Sweden; studies on peripheral nerve regeneration in diabetic rats (2)

Prof. Ipsita Roy, University of Sheffield, UK; study of nerve regeneration using Polyhydroxyalkanoates nerve conduits (1)

Prof. Patrick Jaminet, Eberhard Karls University of Tübingen, Germany; role of Netrin in peripheral nerve regeneration (3)

Prof. Krzysztof Czaja, University of Georgia, USA; studies on the hippocampal plasticity after a vagus nerve injury (2)

LIST OF PUBLICATIONS

1) Penna C, Raimondo S, Ronchi G, Rastaldo R, Mancardi D, Cappello S, Losano G, Geuna S, Pagliaro P. Early Homing of Adult Mesenchymal Stem Cells in Normal and Infarcted Isolated Beating Hearts. *Journal of Cellular and Molecular Medicine*, 2008; 12: 507-521.

2) Tos P, Ronchi G, Nicolino S, Audisio C, Raimondo S, Fornaro M, Battiston B, Graziani A, Perroteau I, Geuna S. Employment of the mouse median nerve model for the experimental assessment of peripheral nerve regeneration. *Journal of Neuroscience Methods*. 2008; 169: 119-27.

3) Ronchi G, Nicolino S, Raimondo S, Tos P, Battiston B, Papalia I, Varejão A, Giacobini-Robecchi MG, Perroteau I, Geuna S. Functional and morphological assessment of a standardized crush injury of the rat median nerve. *Journal of Neuroscience Methods*. 2009, 179:51-7.

4) Geuna S, Raimondo S, Ronchi G, Di Scipio F, Tos P, Czaja K, and Fornaro M. Histology of the peripheral nerve and changes occurring during nerve regeneration. *Int. Rev. Neurobiol.* 2009, 87: 27-46.

5) Tos P, Ronchi G, Papalia I, Sallen V, Legagneux J, Geuna S, and Giacobini-Robecchi MG. Methods and protocols in peripheral nerve regeneration experimental research: part I - Experimental models. *Int. Rev. Neurobiol.* 2009, 87: 47-79.

6) Raimondo S, Fornaro M, Di Scipio F, Ronchi G, Giacobini-Robecchi MG, and Geuna S. Methods and protocols in peripheral nerve regeneration experimental research: part II - Morphological techniques. *Int. Rev. Neurobiol.* 2009, 87: 81-103.

7) Kaplan S, Geuna S, Ronchi G, Ulkay MB, von Bartheld CS. Calibration of the stereological estimation of the number of myelinated axons in the rat sciatic nerve: A multicenter study. *J Neurosci Methods*. 2010, 187:90-9.

8) Ronchi G, Raimondo S, Varejão AS, Tos P, Perroteau I, Geuna S. Standardized crush injury of the mouse median nerve. *J Neurosci Methods*. 2010, 188:71-5.

9) Ronchi G., Ryu V., Fornaro M., Czaja K. Hippocampal plasticity after a vagus nerve injury in the rat. *Neural Regeneration Research*. 2012. 7(14): 1055-1063.

10) Papalia I., Ronchi G., Muratori L., Mazzucco A., Magaúda L., Geuna S. Direct muscle neurotization after end-to-end and end-to-side neurotization. An experimental study in the rat forelimb model. *Neural Regeneration Research*. 2012. 7(29): 2273-2278.

11) Muratori L*, Ronchi G*, Raimondo S, Giacobini-Robecchi MG, Fornaro M, Geuna S. Can regenerated nerve fibers return to normal size? A long-term post-traumatic study of the rat median nerve crush injury model. *Microsurgery*. 2012. 32(5):383-7.

* The first two authors contributed equally to this work

12) Gärtner A, Pereira T, Alves MG, Armada-da-Silva PA, Amorim I, Gomes R, Ribeiro J, França ML, Lopes C, Carvalho RA, Socorro S, Oliveira PF, Porto B, Sousa R, Bombaci A, Ronchi G, Fregnan F, Varejão AS, Luís AL, Geuna S, Maurício AC. Use of poly(DL-lactide-ε-caprolactone) membranes and mesenchymal stem cells from the Wharton's jelly of the umbilical cord for promoting nerve regeneration in axonotmesis: in vitro and in vivo analysis. *Differentiation*. 2012. 84(5):355-65.

- 13) Ronchi G, Gambarotta G, Di Scipio F, Salamone P, Sprio AE, Cavallo F, Perroteau I, Berta GN, Geuna S. ErbB2 receptor over-expression improves post-traumatic peripheral nerve regeneration in adult mice. *PLoS One*. 2013;8(2):e56282. doi: 10.1371/journal.pone.0056282. Epub 2013 Feb 21.
- 14) Jaminet P, Köhler D, Schäufele M, Rahmanian-Schwarz A, Lotter O, Fornaro M, Ronchi G, Geuna S, Rosenberger P, Schaller HE. Evaluating the role of Netrin-1 during the early phase of peripheral nerve regeneration using the mouse median nerve model. *Restor Neurol Neuros*. 2013. 31(3):337-45.
- 15) Porporato PE, Filigheddu N, Reano S, Ferrara M, Angelino E, Gnocchi VF, Prodam F, Ronchi G, Fagoonee S, Fornaro M, Chianale F, Baldanzi G, Surico N, Sinigaglia F, Perroteau I, Smith RG, Sun Y, Geuna S, Graziani A. Acylated and unacylated ghrelin impair skeletal muscle atrophy in mice. *J Clin Invest*. 2013. Feb;123(2):611-22. doi: 10.1172/JCI39920. Epub 2013 Jan 2.
- 16) Jaminet P, Köhler D, Rahmanian-Schwarz A, Lotter O, Mager A, Fornaro M, Ronchi G, Geuna S, Rosenberger P, Schaller HE. Expression patterns and functional evaluation of the UNC5b receptor during the early phase of peripheral nerve regeneration using the mouse median nerve model. *Microsurgery*. 2013. Mar;33(3):216-22. doi: 10.1002/micr.22059. Epub 2012 Nov 24.
- 17) Papalia I, Raimondo S, Ronchi G, Magaouda L, Giacobini-Robecchi MG, Geuna S. Repairing nerve gaps by vein conduits filled with lipoaspirate-derived entire adipose tissue hinders nerve regeneration. *Annals of Anatomy*. 2013. 195(3):225-30.
- 18) Moimas S, Novati F, Ronchi G, Zacchigna S, Fregnan F, Zentilin L, Papa G, Giacca M, Geuna S, Perroteau I, Arnež ZM, Raimondo S. Effect of vascular endothelial growth factor gene therapy on post-traumatic peripheral nerve regeneration and denervation-related muscle atrophy. *Gene Ther*. 2013. Oct;20(10):1014-21. doi: 10.1038/gt.2013.26. Epub 2013 May 30.
- 19) Raimondo S, Ronchi G, Geuna S, Pascal D, Reano S, Filigheddu N, Graziani A. Ghrelin: A Novel Neuromuscular Recovery Promoting Factor? *Int Rev Neurobiol*. 2013. 108:207-221.
- 20) Tos P*, Ronchi G*, Geuna S, Battiston B. Future perspectives in nerve repair and regeneration. *Int Rev Neurobiol*. 2013;109:165-92.
* The first two authors contributed equally to this work.
- 21) Borrione P, Grasso L, Chierito E, Geuna S, Racca S, Abbadessa G, Ronchi G, Faiola F, Di Gianfrancesco A, Pigozzi F. Experimental model for the study of the effects of platelet-rich plasma on the early phases of muscle healing. *Blood Transfus*. 2014. Suppl 1:s221-8.
- 22) Gambarotta G, Ronchi G, Geuna S, Perroteau I. Neuregulin 1 isoforms could be an effective therapeutic candidate to promote peripheral nerve regeneration. *Neural Regen Res*. 2014; 9(12): 1183-1185
- 23) Jager S*, Ronchi G*, Vaegter C.B, Geuna S. The Mouse Median Nerve Experimental Model in Regenerative Research. *BioMed Res Int*. 2014.
* The first two authors contributed equally to this work.
- 24) Gambarotta G.*, Ronchi G*, Friard O, Galletta P, Perroteau I, and Geuna S. Identification and validation of suitable housekeeping genes for normalizing quantitative real-time PCR assays in injured peripheral nerves. *PlosONE*. 2014. Aug 21;9(8):e105601. doi: 10.1371/journal.pone.0105601. eCollection 2014.
* The first two authors contributed equally to this work.
- 25) Ronchi G, Jager SB, Vaegter CB, Raimondo S, Giacobini-Robecchi MG, Geuna S. Discrepancies in quantitative assessment of normal and regenerated peripheral nerve fibers between light and electron microscopy. *Journal of the Peripheral Nervous System*. 2014. 19(3):224-33.

- 26) Marvaldi L, Thongrong S, Kozłowska A, Irschick R, Pritz CO, Bäumer B, Ronchi G, Geuna S, Hausott B, Klimaschewski L. Enhanced axon outgrowth and improved long-distance axon regeneration in sprouty2 deficient mice. *Dev Neurobiol*. 2015. 75(3):217-31.
- 27) Muratori L, Ronchi G, Raimondo S, Geuna S, Giacobini-Robecchi MG, Fornaro M. Generation of new neurons in dorsal root ganglia in adult rats after peripheral nerve crush injury. *Neural Plasticity*. 2015. doi: 10.1155/2015/860546
- 28) Ronchi G, Raimondo S, Geuna S, Gambarotta G. New insights on the standardization of peripheral nerve regeneration quantitative analysis. *Neural Regen Res*. 2015. 10(5):707-9.
- 29) Gambarotta G*, Pascal D*, Ronchi G, Morano M, Buskbjerg Jager S, Moimas S, Zentilin L, Giacca M, Perroteau I, Tos P, Geuna S, Raimondo S. Local delivery of the Neuregulin1 receptor ecto-domain (ecto-ErbB4) has a positive effect on regenerated nerve fiber maturation. *Gene Therapy*. 2015. 22(11):901-7
* The first two authors contributed equally to this work.
- 30) Shapira Y, Tolmasov M, Nissan M, Reider E, Koren A, Biron T, Bitan Y, Livnat M, Ronchi G, Geuna S, Rochkind S. Comparison of results between chitosan hollow tube and autologous nerve graft in reconstruction of peripheral nerve defect: An experimental study. *Microsurgery*. 2016 Nov;36(8):664-671. doi: 10.1002/micr.22418.
- 31) Ronchi G, Haastert-Talini K, Fornasari BE, Perroteau I, Geuna S and Gambarotta G. The Neuregulin1/ErbB system is selectively regulated during peripheral nerve degeneration and regeneration. *European Journal of Neuroscience*. 2016. 43(3):351-64
- 32) Meyer C, Stenberg L, Gonzalez-Perez F, Wrobel S, Ronchi G, Udina E, Suganuma S, Geuna S, Navarro X, Dahlin L.B, Grothe C, Haastert-Talini K. Chitosan-film enhanced chitosan nerve guides for long-distance regeneration of peripheral nerves. *Biomaterials*. 2016. Jan;76:33-51. doi: 10.1016/j.biomaterials.2015.10.040. Epub 2015 Oct 21
- 33) Papalia I, Magaudda L, Righi M, Ronchi G, Viano N, Geuna S, Colonna MR. Epineurial window is more efficient in attracting axons than simple coaptation in a sutureless (cyanoacrylate-bound) model of end-to-side nerve repair in the rat upper limb: functional and morphometric evidences and review of the literature. *PlosOne*. 2016. Feb 12;11(2):e0148443. doi: 10.1371/journal.pone.0148443. eCollection 2016.
- 34) Ronchi G, Cillino M, Gambarotta G, Fornasari BE, Raimondo S, Pugliese P, Tos P, Cordova A, Moschella F, Geuna S. Irreversible changes occurring in long-term denervated Schwann cells affect delayed nerve repair. *J.Neurosurgery*. 2017 Oct;127(4):843-856. doi: 10.3171/2016.9.JNS16140. Epub 2017 Jan 6.
- 35) Mazzara PG, Massimino L, Pellegatta M, Ronchi G, Ricca A, Iannielli A, Giannelli SG, Cursi M, Cancellieri C, Sessa A, Del Carro U, Quattrini A, Geuna S, Gritti A, Taveggia C, Broccoli V. Two factor-based reprogramming of rodent and human fibroblasts into Schwann cells. *Nature communication*. 2017 Feb 7;8:14088. doi: 10.1038/ncomms14088
- 36) Geuna S, Papalia I, Ronchi G, Stagno d'Alcontres F, Natsis K, Papadopulos N.A, Colonna M.R. The reasons for end-to-side coaptation: How does lateral axon sprouting work ? *Neural Regen Res*. 2017 Apr;12(4):529-533.
- 37) Ronchi G, Raimondo S. Chronically denervated distal nerve stump inhibits peripheral nerve regeneration. *Neural Regen Res*. 2017 May;12(5):739-740
- 38) Stenberg L, Stöbel M, Ronchi G, Geuna S, Yin Y, Mommert S, Mårtensson L, Metzen J, Grothe C, Dahlin LB, Haastert-Talini K. Regeneration of long-distance peripheral nerve defects after delayed reconstruction in healthy and diabetic rats is supported by immunomodulatory chitosan nerve guides. *BMC Neurosci*. 2017 Jul 18;18(1):53

39) Fornasari B*, Ronchi G*, Pascal D, Visigalli D, Capodivento G, Nobbio L, Perroteau I, Schenone A, Geuna S, Gambarotta G. Soluble Neuregulin1 is strongly up-regulated in the rat model of Charcot-Marie-Tooth 1A disease. *Experimental Biology and Medicine*. 2018. Feb; 243(4):370-374

* The first two authors contributed equally to this work.

40) Carvalho C. R., Wrobel S, Meyer C, Brandenberger C, Cengiza I. F. López-Cebral R, Silva-Correia J, Ronchi G, Reis R. L., Grothe C. Oliveira J. M., Haastert-Talini K. The Potential of Gellan Gum-based Luminal Fillers for Peripheral Nerve Regeneration. An In Vivo Study in the Rat Sciatic Nerve Repair Model. *Biomaterials Science*. 2018, 6, 1059

41) Morano M, Ronchi G, Nicolò V, Fornasari BE, Crosio A, Perroteau I, Geuna S, Gambarotta G, and Raimondo S. Modulation of the Neuregulin 1/ErbB system after skeletal muscle denervation and reinnervation. *Scientific Reports*. 2018. Mar 22;8(1):5047

42) El Soury M, Fornasari B.E., Morano M, Grazio E, Ronchi G, Incarnato D, Giacobini M, Geuna S, Provero P, Gambarotta G. Soluble Neuregulin1 down-regulates myelination genes in Schwann cells. *Frontiers in molecular Neuroscience*. 2018. May 14;11:157. doi: 10.3389/fnmol.2018.00157

43) Ronchi G, Fornasari BE, Crosio A, Budau CA, Tos P, Perroteau I, Battiston B, Geuna S, Raimondo S, Gambarotta G. Chitosan tubes enriched with fresh skeletal muscle fibers for primary nerve repair. *BioMed Research International*. 2018 Jun 13;2018:9175248. doi: 10.1155/2018/9175248.

44) Mancini C, Hoxha E, Iommarini L, Brussino A, Richter U, Montarolo F, Cagnoli C, Parolisi R, Gondor Morosini, D. I, Nicolo V, Maltecca F, Muratori L, Ronchi G, Geuna S, Arnaboldi F, Donetti E, Giorgio E, Cavalieri S, Di Gregorio E, Pozzi E, Ferrero M, Riberi E, Casari G, Altruda F, Turco E, Gasparre G, Battersby B. J, Porcelli A. M, Ferrero E, Brusco A, Tempia F. Mice harboring a SCA28 patient mutation in AFG3L2 develop late-onset ataxia associated with enhanced mitochondrial proteotoxicity. *Neurobiology of disease*. 2019 Apr;124:14-28. doi: 10.1016/j.nbd.2018.10.018.

45) Crosio A, Fornasari BE, Gambarotta G, Geuna S, Raimondo S, Battiston B, Tos P, Ronchi G. Chitosan tubes enriched with fresh skeletal muscle fibers for delayed repair of nerve defects. *Neural Regen Res*. 2019 Jun;14(6):1079-1084. doi: 10.4103/1673-5374.250628.

46) Colonna M.R, Fazio A, Costa A.L, Galletti F, Lo Giudice R, Galletti B, Galletti C, Lo Giudice G, Dell'Aversana Orabona G, Papalia I, Ronchi G and Geuna S. The use of a hypoallergenic dermal matrix for wrapping in peripheral nerve lesions regeneration. Functional and quantitative morphological analysis in an experimental animal model. *BioMed Research International*. 2019 Jun 17;2019:4750624. doi: 10.1155/2019/4750624. eCollection 2019

47) Muratori L.*, Fregnan F.*, Ronchi G., Haastert-Talini K., Metzen J., Bertolo R., Porphiglia F., Geuna S. New basic insights on the potential of chitosan-based medical device for improving functional recovery after radical prostatectomy. *BJU International*. 2019 Dec;124(6):1063-1076. doi: 10.1111/bju.14834. Epub 2019 Jun 27.

48) Ronchi G, Morano M, Fregnan F, Pugliese P, Crosio A, Tos P, Geuna S, Haastert-Talini K, Gambarotta G. The median nerve injury model in pre-clinical research – a critical review on benefits and limitations. *Front Cell Neurosci*. 2019 Jun 28;13:288. doi: 10.3389/fncel.2019.00288. eCollection 2019.

49) Jaminet P, Schäufele M, Mager A3 Fornaro M, Ronchi G, Geuna S, Schaller HE, Rosenberger P, Köhler D. Expression patterns and functional evaluation of RGMa during the early phase of peripheral nerve regeneration using the mouse median nerve model. *Restor Neurol Neurosci*. 2019;37(3):265-272. doi: 10.3233/RNN-190913.

- 50) Alessandrino A, Fregnan F, Biagiotti M, Muratori L, Bassani G.A., Ronchi G, Vincoli V, Pierimarchi P, Geuna S, Freddi G. SilkBridge□: a novel biomimetic and biocompatible silk-based nerve conduit. *Biomaterials Science*. 2019 Oct 1;7(10):4112-4130. doi: 10.1039/c9bm00783k. Epub 2019 Jul 30.
- 51) Pinho A, Vieira Branquinho M.E, Alvites R, Fonseca A, Caseiro A, Pedrosa S, Luís A, Pires I, Prada J, Muratori L, Ronchi G, Geuna S, Santos J, Maurício A.C, Serra A, Coelho J. Dextran-based tube-guides for the regeneration of the rat sciatic nerve after neurotmesis injury. *Biomaterials Science*. 2020 Feb 7;8(3):798-811. doi: 10.1039/c9bm00901a. Epub 2020 Jan 6.
- 52) Ronchi G, Gambarotta G, Morano M, Fregnan F, Pugliese P, Tos P, Geuna S, Haastert-Talini K. Critical analysis of the value of the rabbit median nerve model for biomedical research on peripheral nerve grafts. *J Tissue Eng Regen Med*. 2020 May;14(5):736-740. doi: 10.1002/term.3036. Epub 2020 Mar 31.
- 53) Fornasari BE, El Soury M, Nato G, Fucini A, Carta G, Ronchi G, Crosio A, Perroteau I, Geuna S, Raimondo S, Gambarotta G. Fibroblasts Colonizing Nerve Conduits Express High Levels of Soluble Neuregulin1, a Factor Promoting Schwann Cell Dedifferentiation. *Cells*. 2020 Jun 1;9(6):1366. doi: 10.3390/cells9061366.
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- 55) Lizarraga-Valderrama L.*, Ronchi G.*, Nigmatullin R, Fregnan F, Basnett P, Paxinou A, Geuna S, Roy I. Pre-clinical study of Peripheral Nerve Regeneration using Nerve Guidance Conduits based on Polyhydroxyalkanoates. *Bioeng Transl Med*. 2021 May 21;6(3):e10223. doi: 10.1002/btm2.10223.
* The first two authors contributed equally to this work.
- 56) Crosio A*, Ronchi G*, Fornasari BE, Odella S, Raimondo S, Tos P. Experimental methods to simulate and evaluate post-surgical peripheral nerve scarring. *J Clin Med*. 2021 Apr 10;10(8):1613. doi: 10.3390/jcm10081613
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- 57) Costa AL, Papadopulos N, Porzionato A, Natsis K, Bassetto F, Tiengo C, Giunta R, Soldado F, Bertelli JA, Rodríguez Baeza A, Battiston B, Titolo P, Tos P, Radtke C, Aszmann O, Moschella F, Cordova A, Toia F, Perrotta RE, Ronchi G, Geuna S, Colonna M. Studying nerve transfers: searching for a consensus in nerve axons count. *J Plast Reconstr Aesthet Surg*. 2021 Oct;74(10):2731-2736. doi: 10.1016/j.bjps.2021.03.064.
- 58) El Soury M, Fornasari BE, Carta G, Zen F, Haastert-Talini K, Ronchi G. The role of dietary nutrients in peripheral nerve regeneration. *Int. J. Mol. Sci*. 2021, 22(14), 7417; <https://doi.org/10.3390/ijms22147417>
- 59) Ronchi G, Tos P, Angelino E, Muratori L, Reano S, Filigheddu N, Graziani A, Geuna S, Raimondo S. Effect of unacylated Ghrelin on peripheral nerve regeneration. *Eur J Histochem*. 2021 Nov 4;65(s1):3287. doi: 10.4081/ejh.2021.3287
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