

Personal Information

Sissi Dolci

Date of Birth: 3rd September 1984
Nationality: Italian
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Education and Training

October 2015 – Present	PhD Student at Life and Health Science School in Neuroscience, Psychology and Psychiatry, Department of Public Health and Community Medicine – Section of Pharmacology University of Verona – Verona (Italy)
September 2008 – July 2014	Master Degree in Agro-Industrial Biotechnology <i>Graduating mark: 110/110 cum laude</i> <i>Thesis project: "Characterization of the neural stem cells hosted in the leptomeninges of the spinal cord"</i> University of Verona – Verona (Italy)
September 2010	<i>8th International Stem Cell School in regenerative Medicine"</i> Karolinska Institutet – Stockholm (Sweden)
March 2008 – July 2008	Courses: Pharmacology, General Pathology, Immunology and Physiology San Raffaele University, Milan (Italy)
September 2003 – March 2008	Bachelor Degree in Agro-Industrial Biotechnology <i>Graduating mark: 108/110</i> <i>Thesis Project: "Strategies for the bioactive molecules identification in Passiflora palmeri"</i> University of Verona – Verona (Italy)

Relevant methodological Skills and Courses

IN VITRO	<i>Cell culture. Meningeal tissue extraction from rat and mouse spinal cord and brain, sub ventricular zone, cortex and hippocampus extraction from mouse and rat brain. Primary culture of adult neural stem cells from meninges of neonatal and adult mouse and differentiation into different neural lineages (oligodendrocytes, neurons). Neural stem cell culture from spinal cord and brain meninges (rat and mouse). Organoids culture. Cell migration analysis (Wound healing test).</i>
	<i>HUVEC culture (Human Umbilical Venous Endothelial Cells). Basic molecular biology techniques: DNA and RNA extraction, PCR, electroporation, plasmid transformation and DNA purification. Proteomics: SDS-PAGE, Western blot, protein extraction and processing.</i>

ANALYSIS	<p><i>Tissue preparation for cryosectioning. Tissue cryosectioning.</i></p> <p><i>Tissue stainings and image analysis: Luxol Fast Blue, Cresyl Violet; H&E</i></p> <p><i>Sample preparation for Light Microscopy analysis Immunofluorescence on brain/spinal cord tissue and cells Immunohistochemistry on fixed cells</i></p> <p><i>Light, confocal and fluorescent microscopy imaging</i></p> <p><i>ImageJ and Zeiss confocal software for images analysis</i></p>
IN VIVO	<p><i>Use of mouse and rat models. Use of transgenic mouse;</i></p> <p><i>Animal handling; Intraperitoneal (IP), intramuscular (IM), subcutaneous (SC) injections Gavage (mouse); Transcardiac perfusion (rat/mouse). Tissue/organ dissection (rat/mouse).</i></p> <p><i>Standardized <u>spinal cord injury surgery in rat and mouse models</u>: anesthesia, laminectomy, impact delivery, and tissue suture</i></p> <p><i>Standardized <u>cell transplantation surgery in rat and mouse spinal cord</u>: anesthesia, cell injections and tissue suture</i></p> <p><i>Animal care and behaviour analysis in rat and mouse models (BBB, BMS, ankle movement, bladder functionality, tape removal test – rat/mouse).</i></p>
COURSES	<p>“Management of the laboratory safety and security” – January 2016;</p> <p>“Organoids models and applications in biomedical research” – March 2018;</p> <p>“Spinal cord course by Neuroscience School of Advanced Studies” (NSAS), Venice (Italy) – September 2018 - (1 week)</p>

Mentoring

03.2019	<p>Organization and participation to <i>Unistem event</i></p> <p>University of Verona, Verona (Italy)</p>
03.2019	<p>(30 hours) Supervisor Master Medical Students – Training for small group of students (10 students)</p> <p>University of Verona, Verona (Italy)</p>
07.2018	<p>Supervisor Master student (1 student) – Thesis project</p> <p>Title of the thesis: “<i>Branched-chain amino acid-enriched mixture (BCaa-EM) ameliorates spinal cord injury outcome</i>”</p> <p>University of Verona, Verona (Italy)</p>
11.2017	<p>(30 hours) Supervisor Master Medical Students – Training for small group of students (10 students)</p> <p>University of Verona, Verona (Italy)</p>
09.2017	<p>Organization and participation to <i>KIDSUniversity event</i></p> <p>University of Verona, Verona (Italy)</p>
09.2017	<p>(3 weeks) Supervisor High School students (2 students) – School-Work Alternation project University of Verona, Verona (Italy)</p>
07.2017	<p>(2 weeks) Supervisor High School students (1 student) – School-Work Alternation project University of Verona, Verona (Italy)</p>
05.2017	<p>(3 weeks) Supervisor High School students (1 student) – School-Work Alternation project University of Verona, Verona (Italy)</p>

- 04.2017 Supervisor Master student (1 student) – Thesis project
Title of the thesis: “*Pharmacological modulation of meningeal stem cell migration*”
University of Verona, Verona (Italy)
- 10.2016 Supervisor Master student (1 student) – Thesis project
Title of the thesis: “*Cell transplantation for the therapy of spinal cord injury*”
University of Verona, Verona (Italy)
- 05.2016 Organization and participation to *KIDSUniversity event*
University of Verona, Verona (Italy)
- 03.2016 Organization and participation to *UniStem event*
University of Verona, Verona (Italy)

Awards

- 12.2018 “Therapeutic strategies for spinal cord injury: pilot studies”
Winner Best poster Competition – Certificate of best poster 2017 – PhD Day 2017
University of Verona, Verona (Italy)
- 3 – 5.9.2010 **Travel grant, 8th International Stem Cell School in regenerative Medicine**
Karolinska Institutet, Stockholm (Sweden)

Publications

- 10.2017 **2. S. Dolci**, Annachiara Pino, Valeria Berton, Pau Gonzalez, Alice Braga, Marta Fumagalli, Elisabetta Bonfanti, Giorgio Malpeli, Francesca Pari, Stefania Zorzin, Clelia Amoroso, Denny Moscon, Francisco Javier Rodriguez, Guido Fumagalli, Francesco Bifari & Ilaria Decimo. High yield of adult oligodendrocyte lineage cells obtained from meningeal biopsy. *Front Pharmacol.* 2017 Oct 12; 8:703. doi: 10.3389/fphar.2017.00703. IF: 4.400
- 11.2011 **1. I. Decimo**, F. Bifari, F. J. Rodriguez, G. Malpeli, **S. Dolci**, V. Lavarini, S. Pretto, S. Vasquez, M. Sciancalepore, A. Montalbano, V. Berton, M. Krampera And G. Fumagalli. “Nestin- and Doublecortin-Positive Cells Reside in Adult Spinal Cord Meninges and Participate in Injury-Induced Parenchymal Reaction”. *Stem Cells.* 2011 Oct 28. Volume 29, Issue 12, 2062-2076, 2011. IF: 5.599

Posters

- 11.2018 **Dolci S.**, Pino A., Zorzin S., Di Chio M., Martano G., Bachi A., Fumagalli G., Nisoli E., Valerio A., Bifari F., Decimo I. “Branched-chain amino acid-enriched mixture supplementaton promotes functional recovery after severe spinal cord injury” – More than Neurons, Turin, (Italy)
- 12.2017 **Dolci S.**, Pino A., Amoroso C., Zorzin S., Nisoli E., Locati M., Fabene P., Del Gallo F., Bifari F., Fumagalli G. F., Decimo I. “Therapeutic strategies for spinal cord injury: pilot studies” – PhD Day 2017,
Winner Best poster Competition – Certificate of best poster 2017
University of Verona, Verona (Italy)

- 11.2017 A. Pino, **S. Dolci**, S. Zorzin, E. Llorens-Bobadilla, S. Zhao, C. Lange, G. Panucci, S. Vinckier, S. Wyns, A. Bouché, M. Giugliano, M. Dewerchin, A. Martin-Villalba, P. Carmeliet, F. Bifari & I. Decimo; “Meningeal neural precursors contribute to cortical neurons of aging mice.” – SfN (Society for Neuroscience) annual meeting, Washington DC (USA)
- 10.2017 A. Pino, **S. Dolci**, S. Zorzin, E. Llorens-Bobadilla, S. Zhao, C. Lange, G. Panucci, S. Vinckier, S. Wyns, A. Bouché, M. Giugliano, M. Dewerchin, A. Martin-Villalba, P. Carmeliet, F. Bifari & I. Decimo; “Meningeal neural precursors contribute to cortical neurons of aged mice” – 38th Congress of the Italian Society of Pharmacology (SIF), Rimini (Italy)
- 10.2017 **Dolci S.**, Pino A., Berton V., Gonzalez Sanchez P., Rodriguez F.J., Zorzin S., Amoroso C., Fumagalli G. F., Bifari F., Decimo I. “Transplantation of meningeal-derived oligodendrocytes remyelinate lysophosphatidylcholine spinal cord lesion”– 38th Congress of the Italian Society of Pharmacology (SIF), Rimini (Italy)
- 12.2016 **Dolci S.**, Berton V., Pino A., Del Gallo F., Fabene P., Valerio A., Fumagalli G. F., Nisoli E., Bifari F., Ilaria Decimo I. “Novel therapeutic strategies for spinal cord injury: pilot studies” – PhD Day 2016, University of Verona, Verona (Italy)
- 04.2016 **Dolci S.**, Berton V., Braga A., Rodríguez F.J., González-Sánchez P.H., Malpeli G., Pino A., Krampera M., Bifari F., Fumagalli G. & Decimo I. “Meningeal-derived oligodendrocytes transplantation improves clinical outcome in spinal cord injury rat model”; Life Science Innsbruck Symposium 2016, Neuroscience Institute, Innsbruck (Austria)
- 09.2010 **Dolci S.**, Decimo I., Bifari F., Vasquez S., Rodriguez FJ, Krampera M., Fumagalli G. “Nestin-positive cells are in adult rat spinal cord meninges and are activated following mechanical injury”; *8th International Stem Cell School in regenerative Medicine*, Karolinska Institute, Stockholm (Sweden)

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE e/o SOSTITUTIVA DELL'ATTO DI NOTORIETA'
(Art. 46 e 47 D.P.R. n. 445 del 28/12/2000)

La sottoscritta SISSI DOLCI nato a VERONA (VR) il 03/09/1984, residente a, VILLAFRANCA DI VERONA (VR) , in via ZUCCHER n. 5, CODICE FISCALE: DLCS584P43L7810, consapevole che chiunque rilascia dichiarazioni mendaci è punito ai sensi del codice penale e delle leggi speciali in materia, ai sensi e per gli effetti degli articoli 46 e 47 del D.P.R. n. 445/2000: DICHIARA che tutte le informazioni sopra citate corrispondono a verità.

Verona, 01.08.2018

Autorizzo il trattamento dei miei dati personali ai sensi del D.Lgs. 196/2003