

SILVIA MARCHESAN, PhD

TITOLI DI STUDIO E QUALIFICAZIONI PROFESSIONALI

- 2004-2008** Dottorato di Ricerca in Chimica. University of Edinburgh (Gran Bretagna).
Tesi: "Sviluppo di azidomannosi come strumenti per la glicobiologia."
Supervisore: Dr. D. Macmillan.
- 2007** Qualificazione come Chimico Farmaceutico (Gran Bretagna).
- 2006** Qualificazione come Farmacista (Italia).
- 1996-2004** Laurea Specialistica in Chimica e Tecnologia Farmaceutiche. Università degli Studi di Trieste (Italia). 110/110 e Lode. *Specializzazione:* Scienza e Sviluppo del Farmaco.
Relatore: Prof. M. Prato. *Correlatore:* Dr. T. Da Ros.
Tesi: "Sintesi di bis- e tris-addotti fullerenici con potenziali attività biologiche."

ESPERIENZA LAVORATIVA

- 2015-** Ricercatrice a tempo determinato di tipo B. Università di Trieste. Dip. Sc. Chim. Farm.
- 2013-2015** Ricercatrice post-doc presso INSTM, affiliata all'Università di Trieste.
Progetto di ricerca FP7 carinhyph (www.carinhyph.eu).
- 2010-2012** Ricercatrice post-doc congiunta presso Monash University e CSIRO (Commonwealth Scientific Industrial Research Organization), a Melbourne (Victoria, Australia).
Supervisori: A. Prof. John Forsythe (Monash University) e Dr. Patrick Hartley (CSIRO).
- 2008-2010** Ricercatrice post-doc presso l'Università di Helsinki (Finlandia).
Supervisore: Prof. C. G. Gahmberg.
- 2005-2007** Ricercatrice, University College London (Gran Bretagna).
- 2006-2007** Assistente di Laboratorio in Chimica Organica. Progetto UPCSE.
University College London (Gran Bretagna).
- 2005-2006** Assistente di Laboratorio in Chimica Organica.
University College London (Gran Bretagna).
- 2004-2005** Assistente di Laboratorio in Chimica Organica.
University of Edinburgh (Gran Bretagna).

PUBBLICAZIONI SCIENTIFICHE (update fino al 2014)

- * **S. Marchesan***, C. D. Easton, K. E. Styan, L. J. Waddington, F. Kushkaki, et al. "Chirality effects at each position on tripeptide self-assembly into hydrogel biomaterials" *Nanoscale* **2014**, 6 (10), 5172-5180. **Hot Paper**
- * **S. Marchesan*** and Y. Qu "Fluoroquinolones: Chemistry, Uses, Resistance and Adverse Effects" chapter of the book "Advances in Medicine and Biology. Volume 76", Nova Science Publishers Inc., New York, **2014**.
- * D. Fon, K. Zhou, F. Ercole, F. Fehr, **S. Marchesan**, et al. "Nanofibrous scaffolds releasing a small molecule BDNF-mimetic re-directs endogenous neuroblast migration in the brain" *Biomaterials* **2014**, 35, 2692.
- * **S. Marchesan***, A. Bianco, K. Kostarelos, and M. Prato. "The winding road for carbon nanotubes in nanomedicine" *Mater. Today* **2014**, in press. DOI: 10.1016/j.mattod.2014.07.009.
- * **S. Marchesan*** "Recent patents on self-assembled peptide hydrogels as nanostructured biomaterials" *Recent Patents on Nanomedicine* **2014**, 4 (2), 77-81.
- * **S. Marchesan***, M. Melchionna, and M. Prato. "Carbon Nanostructures for Nanomedicine: opportunities and challenges." *Fullerenes, Nanotubes, Carbon Nanostruct.* **2014**, 22 (1-3), 190-195.
- * **S. Marchesan*** and M. Prato. "Nanomaterials for (Nano)medicine" *ACS Med. Chem. Lett.*, **2013**, 4, 147. **Editor's Choice & Journal Cover.**

- ✦ **S. Marchesan**,* Y. Qu, L. J. Waddington, C. D. Easton, V. Glattauer, *et al.* "Self-assembly of ciprofloxacin and a tripeptide into an antimicrobial nanostructured hydrogel" *Biomaterials*, **2013**, 34, 3678. **Highlighted paper on GlobalMedicalDiscovery.com**
- ✦ **S. Marchesan**,* L. Waddington, C. D. Easton, F. Kushkaki, K. M. McLean, *et al.* "Tripeptide self-assembled hydrogels: soft nanomaterials for biological applications." *BioNanoScience*, **2013**, 3, 21.
- ✦ R. J. Williams, J. Gardiner, A. B. Sorensen, **S. Marchesan**, R. J. Mulder, *et al.* "Monitoring the early stage self-assembly of enzyme-assisted peptide hydrogels." *Aust. J. Chem.* **2013**, 66 (5), 572-578.
- ✦ **S. Marchesan**,* L. Waddington, C. D. Easton, D. A. Winkler, L. Goodall, *et al.* "Unzipping the role of chirality in nanoscale self-assembly of tripeptide hydrogels." *Nanoscale*, **2012**, 4, 6752. **Journal Cover.**
- ✦ **S. Marchesan**,* C. D. Easton, F. Kushkaki, L. Waddington, P. G. Hartley. "Tripeptide self-assembled hydrogels: unexpected twists of chirality." *Chem. Commun.* **2012**, 48, 2195. **Editor's Choice & Journal Cover.**
- ✦ R. T. Chen, **S. Marchesan**, R. Evans, K. Styan, G. Such, *et al.* "Photoinitiated alkyne-azide click and radical cross-linking reactions for the patterning of PEG hydrogels" *Biomacromolecules* **2012**, 13 (3), 889.
- ✦ **S. Marchesan**,* C. D. Easton, K. E. Styan, P. Leech, T. Gengenbach, *et al.* "SU-8 photolithography on reactive plasma thin films: coated microwells for peptide display" *Coll. Surf. B.* **2013**, 108, 313.
- ✦ **S. Marchesan**, L. Mather, V. Glattauer, K. M. McLean, J. Gardiner, P. G. Hartley "Characterisation and *in vitro* and *in vivo* response to self-assembled peptide hydrogels" *J. Tissue Eng. Reg. Med.* **2012**, 6, 226.
- ✦ **S. Marchesan**, M. Gronholm, F. Jahan, U. Karvonen, M. Aatonen, S. Narumanchi, C. G. Gahmberg. "T cell receptor induced activation of LFA-1 involves signalling through Tiam1" *J. Immun.* **2011**, 187, 3613. **Editor's Choice.**
- ✦ D. J. Haylock, P. Godara, E. Lee, K. Cartledge, C. Nowell, **S. Marchesan**, S. Nilsson, C. Be. "Bioreactor-based culture of CD34+ cells for ex vivo megacaryocyte and platelet production". *Exp. Hematol.* **2011**, 39, S79.
- ✦ C. G. Gahmberg, S. C. Fagerholm, S. M. Nurmi, T. Chavakis, **S. Marchesan**, and M. Grönholm. "Regulation of integrin activity and signalling." *Biochim. Biophys. Acta* **2009**, 6, 431.
- ✦ **S. Marchesan** and D. Macmillan. "Chemoenzymatic synthesis of GDP-azidodeoxymannoses: non-radioactive probes for mannosyltransferase activity." *Chem. Commun.* **2008**, 4321.
- ✦ G. Pastorin, **S. Marchesan**, J. Hoebeke, T. Da Ros, L. Ehret-Sabatier, J. Briand, M. Prato, and A. Bianco. "Design and activity of cationic fullerene derivatives as inhibitors of acetylcholinesterase." *Org. Biomol. Chem.* **2006**, 4, 2556.
- ✦ **S. Marchesan**, T. Da Ros, G. Spalluto, J. Balzarini, and M. Prato. "Anti-HIV properties of cationic fullerene derivatives." *Bioorg. Med. Chem. Lett.* **2005**, 15, 3615.
- ✦ **S. Marchesan**, T. Da Ros, and M. Prato. "Isolation and characterization of nine tris-adducts of *N*-methylfulleropyrrolidine derivatives." *J. Org. Chem.* **2005**, 12, 4706.

PREMI E FONDI DI RICERCA

2015	SIR Grant (Scientific Independence of Young Scientists), MIUR (Italia).
2012	Best Young Scientist Award – NanoBio-Europe conference, Varese (Italia).
2010	Magnus Ehrnrooth Foundation grant per uno studente di dottorato (Finlandia).
2009	Magnus Ehrnrooth Foundation personal research grant (Finlandia).
2007	Borsa di dottorato del Centre for Scientific Enterprise Limited (CSEL, Gran Bretagna).
2004-2007	Borsa di dottorato della University of Edinburgh (Gran Bretagna).
2004	Summer Internship in R&D. Procter & Gamble, Newcastle (Gran Bretagna).

ALTRE INFORMAZIONI

<i>Lingue</i>	Italiano (madrelingua), inglese (fluente, TOEFL 117/120, 2011), francese (intermedio, DELF B2, 2010).
<i>Affiliazioni</i>	Membro della Società Chimica Italiana (dal 2015). Membro di: Royal Pharmaceutical Society (UK, 2007-2014), American Chemical Society (USA, dal 2012). Membro di Royal Society of Chemistry (RSC, UK, 2006-2012).