

# CURRICULUM VITAE ET STUDIORUM

## Personal Information

First name/ Surname: Flavia Carton

Date and place of birth: 6<sup>th</sup> January 1990, Verona, Italy

Nationality: Italian

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## Education and Training experience

- From 2015 to present: PhD student in Nanoscience and Advanced Technologies, Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Italy. Research project: "Innovative tissue systems in vitro to select biocompatible nanovectors for efficient and safe drug delivery". Supervisor: Manuela Malatesta.
- From 01-05-2017 to 30-06-2017 and from 01-09-2017 to 31-03-2018: Research activity at the Laboratoire d'Automatique et de Génie Procédés (LAGEP), Université Claude Bernard Lyon 1, France. Project: "Development of new polymeric nanocarriers based on hyaluronic acid". Supervisor: Giovanna Lollo.
- From 01-04-2017 to 30-04-2017 and from 01-07-2017 to 31-07-2017: Research activity at the Department of Drug Science and Technology, University of Turin, Italy. Project: "Development of PLGA nanoparticles for the delivery of pentamidine". Supervisors: Silvia Arpicco and Barbara Stella.
- 2015: Master's Degree in science and Technology of Bio and Nanomaterials (LM-54 Chemistry), Ca Foscari University of Venice, Italy. Thesis: "Internalization and intracellular localization of different nanoparticles for drug administration: fluorescence and electron microscopy analysis". Supervisor: Manuela Malatesta. Grade: 110/110 *cum laude*.
- 2012: Bachelor's degree in science and Technology for the conservation and restoration, (L-43), University of Padova, Italy. Thesis: "Apatite ruins on hydraulic infrastructures of Roman age in Aquileia site: a potential socio-economic indicator". Supervisor: Gianmario Molin, Jacopo Bonetto and Ivana Angelini. Grade: 110/110 *cum laude*.
- 2008: Classical Studies Degree (High School)

## Personal Skills

Mother tongue: Italian

Other language:

English: fluent in speaking, writing and comprehension.

French: basic comprehension.

Research activity: Formulation of different type of nanoparticles and study of their biocompatibility, mechanism of internalization, intracellular distribution, permanence and degradation in cultured cells and in explanted skeletal muscle.

Computer skills: Good knowledge of standard Microsoft office software, Excel, Pubmed database, ImageJ and Photoshop.

Driving Licence: Italian driver licence: category B vehicle.

### Additional information

#### Publications:

- M. Costanzo, F. Carton, A. Marengo, G. Berlier, B. Stella, S. Arpicco, M. Malatesta (2016): Fluorescence and electron microscopy to visualize the intracellular fate of nanoparticles for drug delivery. Eur J Histochem 60:2640, DOI: 10.4081/ejh.2016.2640.
- V. Ricci, D. Zonari, S. Cannito, A. Marengo, Mt. Scupoli, M. Malatesta, F. Carton, F. Boschi, G. Belier, S. Arpicco (2018). Hyaluronated mesoporous silica nanoparticles for active targeting: influence of conjugation method and hyaluronic acid molecular weight on the nanovector properties. J. Colloid Interface Sci. 516:484-497, DOI: 10.1016/j.jcis.2018.01.072.
- F. Carton, L. Calderan, M. Malatesta (2017): Incubation under fluid dynamic conditions markedly improves the structural preservation *in vitro* of explanted skeletal muscles. Eur J Histochem 61:2862, DOI: 10.4081/ejh.2017.2862.

#### Abstract published in acts of congress:

- F. Carton, M. Costanzo, M. Malatesta. Microscopical analysis of liposome uptake and intracellular fate. MITO A Journey through liposomes and polysaccharides, Milano-Torino, 29-30.11.2016.
- M. Costanzo, F. Carton, B. Cisterna, G. Conti, G. Tabarracci, V. Covi, M. Malatesta. Mild ozonisation induces lipid accumulation in human adipose-derived adult stem cells. European journal of histochemistry a journal of functional cytology, Taormina, 22-23.10.2017.

#### National and international book chapters:

- M. Costanzo, F. Carton, M. Malatesta (2017). Monitoring the uptake and intracellular fate of nanovectors by microscopical technique. Small is beautiful: nanovectors for biomedical research and therapy, Milan 10.11.2016.
- M. Costanzo, F. Carton, M. Malatesta. Microscopy techniques in nanomedical research (2017). Microscopie Vol 27, No 1, DOI: <https://doi.org/10.4081/microscopie.2017.6732>.

#### Congress:

- Forum de la recherche en cancérologie du CLARA, Lyon, France, Avril 3 – 4<sup>th</sup>, 2018  
Poster presentation: “Nanotechnological strategy for pentamidine delivery in cancer treatment”.
- PhD Day, Verona, Italy, May 7<sup>th</sup>, 2018  
Poster presentation (with award for best poster presentation): “A new potential drug delivery system for skeletal muscle disorders. Development of polymeric nanoparticles able to deliver pentamidine for the treatment of myotonic dystrophy type 1”.

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Verona,30/07/18

*Flavia Gaston*