

## PERSONAL INFORMATION

### Daniele Cartelli

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## WORK EXPERIENCE

- 2022-ongoing** **Italian NHS Researcher** at the Fondazione IRCCS Istituto Neurologico Carlo Besta (Milano, Italy) Cell Biologist and Microscopist
- 2017-2021** **Fellowship** at the Fondazione IRCCS Istituto Neurologico Carlo Besta (Milano, Italy), in the laboratory of Prof. G. Lauria, Cell Biologist and Microscopist
- 2015** 6 months' **stage** in the laboratory of Dr Francolini (Department of Medical Biotechnology and translational Medicine, Università degli Studi di Milano, Milano, Italy)  
To learn the basis of electron microscopy and relative sample preparation.
- May 2011-April 2015** **Post doc** position at the Università degli Studi di Milano (Milano, Italy), with a research project entitled: "Microtubule dysfunction: is it the primary or an accessory culprit in MPTP model of Parkinson's disease?", under the supervision of Prof. G. Cappelletti
- 2012** 2 weeks in the laboratory of Dr Arnal (Grenoble Institut des Neurosciences, Grenoble, France) to perform VEDIC microscopy experiments on the effects of  $\alpha$ -Synuclein on microtubule dynamics
- May 2010-May 2011** **Technician** at CIMaNa (Multidisciplinary Center of Nanostructured Materials and Interfaces) for the use of the Laser Scanning Confocal Microscopy
- 2006-2010** **PhD student** in Cellular and Molecular Biology at the Università degli Studi di Milano (Milano, Italy), under the supervision of Prof. G. Cappelletti
- 2008** **Fellowship** Lifelong Learning Programme Erasmus Placement: 3 months' stage at the Chretien laboratory (Rennes, France), under the supervision of Isabelle Arnal to learn the VEDIC (Video Enhanced Differential Interference Contrast) microscopy technique.

## EDUCATION AND TRAINING

- 2017** **Professional Biologist qualification (157/200)** at the Università degli Studi di Milano
- 2010** **PhD in Cellular and Molecular Biology** at the Università degli Studi di Milano (Milano, Italy), with a thesis entitled: "Microtubule dysfunctions in experimental models of Parkinson's disease", under the supervision of Dr. G. Cappelletti
- 2006** **Master Degree in Biology applied to Biomedical research (107/110)** at the Università degli Studi di Milano (Milano, Italy), with a thesis entitled: "Study on the involvement of microtubule dynamic in neurotoxin model of Parkinson's disease", under the supervision of Dr. G. Cappelletti

- 2004 Bachelor in Biological Sciences (100/110)** at the Università degli Studi di Milano (Milano, Italy), with a thesis entitled: "Immunocytochemical analysis of the cholinergic innervations in the cerebral cortex of rodents", under the supervision of Dr. A. Amadeo

## ACHIEVEMENTS AND AWARD

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- Awards**
- Editorial activity** Reviewer of many articles and author of 2 book's chapter
- Grants** "Dote ricerca", FSE, Regione Lombardia
- Patents**

## TEACHING ACTIVITY

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- 2007-2008** Course of "Histology", in the faculty of osteopathy, ICOM, Cinisello Balsamo (Milano, Italy)
- 2009-2015** Laboratory of "Comparative Anatomy", degree in Natural Sciences, Università degli Studi di Milano (Milano, Italy)
- 2009-2010** Seminar: "Live cell imaging: principles and applications in the study of cellular dynamics", part of the course on "survey instruments for the study of cells and molecules" for the PhD students of the school of Morphological and Physiological Sciences, Università degli Studi di Milano (Milano, Italy)
- 2015** Tutor of practical session of the "IX Practical course of confocal microscopy", held by Fondazione Filarete-IFOM\_Leica microsystems
- Co-supervisor of many experimental thesis

## TECHNICAL SKILLS

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Basic biochemical approach (SDS-PAGE and Western Blotting), circular dichroism and chromatography

Immunofluorescence and immunohistochemistry

Animal handling, behavioural test and nerve conduction velocity study

Perfusion, sectioning (vibratome and microtome), and brain dissection

DRG isolation, Cell culture and live cell imaging

Confocal microscopy and experience with electron microscopy (transmission and scanning)

Protein purification either from bacterial source (Synuclein and RB3-SLD) or brain sample (Tubulin)

Tubulin-based in vitro experiments and VEDIC microscopy

Image analyses and elaboration programs: competent with Image J/Fiji and Adobe Photoshop and experience with PlusTipTracker and Imaris software.

Experience with Statistical programs (SPSS and Statistica)