

**PERSONAL
INFORMATION**

Chiara Lanzillotta *Pharm.D., Ph.D.*

📍 Department of Biochemical Sciences "A. Rossi Fanelli"
Sapienza University of Rome
Piazzale Aldo Moro 5, 00185, Rome, Italy

📞 N/A
✉ Chiara.lanzillotta@uniroma1.it

Sex M | Date of birth 01/10/1988 | Nationality Italian

**WORK
EXPERIENCE**

From February 2018
– to January 2019

Post-doctoral Researcher
Department of Biochemical Sciences "A. Rossi Fanelli" Sapienza University of Rome
Rome, Italy



SAPIENZA
UNIVERSITÀ DI ROMA

From May 2016
– to June 2017

Research Scholar
(a) Department of Molecular and Biomedical Pharmacology in the Sanders-Brown Center on Aging and (b) Department of Chemistry, Laboratory of Neurochemistry
University of Kentucky, Lexington, Kentucky, USA



From November 2014 – to
November 2017

Ph.D. Candidate in Biochemistry
Department of Biochemical Sciences "A. Rossi Fanelli" Sapienza University of Rome
Rome, Italy



SAPIENZA
UNIVERSITÀ DI ROMA

From February 2013 – to
July 2014

Visiting Student
Department of Biochemical Sciences "A. Rossi Fanelli" Sapienza University of Rome
Rome, Italy



SAPIENZA
UNIVERSITÀ DI ROMA

From May 2012 – to
November 2013

Pharmacy Training
Pharmacy
Frascati (RM), Italy



EDUCATION AND TRAINING

- February 2018 **Post-doctoral Researcher**
Department of Biochemical Sciences "A. Rossi-Fanelli" Sapienza University of Rome, Italy
- December 2017 **Ph.D. in Biochemistry**
Department of Biochemical Sciences "A. Rossi-Fanelli" Sapienza University of Rome, Italy
- December 2014 **National Qualification as Pharmacist**
Faculty of Pharmacy, Sapienza University of Rome, Italy
- July 2014 **Doctor in Pharmaceutical Chemistry and Technology**
Faculty of Pharmacy, Sapienza University of Rome, Italy
- 2007 **Secondary School Diploma**
Liceo Scientifico "Bruno Touschek" – Grottaferrata (RM) Italia

PERSONAL SKILLS

Mother tongue Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

GRANTS

- January 2017 *Travel Grant Sapienza*
- November 2016 *SIB travel Grant*
Italian Society of Biochemistry and Molecular Biology (SIB)

PROFESSIONAL MEMBERSHIPS

Member of the Italian Society of Biochemistry and Molecular Biology (SIB)

INVITED SPEAKER

- 2017 3th International Conference on Alzheimer's and Parkinson's Diseases ADPDTM 2017 The Unfolded Protein Response: a major early participant in the development of Alzheimer-like neuropathology in Down syndrome mice. March 29-April 2, 2017 in Vienna, Austria.
- 2015 58° National Meeting of the Italian Society of Biochemistry and Molecular Biology). "Ubiquitin-bound protein profile in human brain from Down Syndrome individuals' prior and after the development of Alzheimer-like dementia". September 2015, Urbino, Italy

PROFESSIONAL EXPERTISE

Surgery and Tissue Processing: High experience with Small Animal Surgery, Brain dissection

Microscopy: Histochemistry, Immunohistochemistry, BrdU, Immunofluorescence

Behavioural Training: Radial maze test, novel object

Cell culture: Primary Neurons

Cell Lines (M17, iHEK, SHSY5, C33A, HeLa, SiHa)

Molecular Biology: DNA extraction, RT-PCR, Real Time PCR, Western Blot analysis, Proteomics and Redox Proteomics

Other Methods: ELISA, Reactive oxygen species assays.

SCIENTIFIC COLLABORATIONS

Prof. Joe Abisambra, Center of Membrane Science, Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY, USA

PUBLICATIONS LIST

1. **Lanzillotta C**, Tramutola A, Meier SE, Schmitt F, Barone E, Perluigi M, Di Domenico F, Abisambra JF. Early and selective activation and subsequent alterations to the Unfolded Protein Response in Down Syndrome mouse models. *J Alzheimers Dis* 2017. PMID:29439332

2. Fontaine SN, Ingram A, Cloyd RA, Meier SE, Miller E, Lyons D, Nation GK, Mechas E, Weiss B, **Lanzillotta C**, Di Domenico F, Schmitt F, Powell DK, Vandsburger M, Abisambra JF. Identification of changes in neuronal function as a consequence of aging and tauopathic neurodegeneration using a novel and sensitive magnetic resonance imaging approach. *Neurobiol Aging*. 2017 PubMed PMID: 28500878

3. Tramutola A, **Lanzillotta C**, Di Domenico F. Targeting mTOR to reduce Alzheimer-related cognitive decline: from current hits to future therapies. *Expert Rev Neurother*. 2016 Oct 2. PubMed PMID: 27690737.

4. Tramutola A, **Lanzillotta C**, Perluigi M, Butterfield DA. Oxidative stress, protein modification and Alzheimer disease. *Brain Res Bull*. 2016 Jun 15. Review. PubMed PMID: 27316747.

5. Tramutola A, Pupo G, Di Domenico F, Barone E, Arena A, **Lanzillotta C**, Broekaart D, Blarzino C, Head E, Butterfield DA, Perluigi M. Activation of p53 in Down Syndrome and in the Ts65Dn Mouse Brain is Associated with a Pro-Apoptotic Phenotype. *J Alzheimers Dis*. 2016 Mar 8;52(1):359-71.

6. Tramutola A, **Lanzillotta C**, Arena A, Barone E, Perluigi M, Di Domenico F. Increased mTOR signaling contributes to the accumulation of protein oxidative damage in a mouse model of Down syndrome. *Neurodegenerative Diseases: Epub* 2015 Nov 26. PMID:26606243nico.

ABSTRACTS

1. Eugenio Barone, Fabio Di Domenico, **Chiara Lanzillotta**, Gilda Pupo, Elizabeth Head, Marzia Perluigi. *The role of p53 in Down Syndrome brain. 1st International Conference of the Trisomy 21 Research Society (T21RS) 2015 - Changing Paradigms in Down Syndrome". 4-7 June 2015, Paris, France.*

2. Shelby Meier, **Chiara Lanzillotta**, Sara Galvis, Jeff Boychuck, Kathryn Saatman, Bret Smith, Jose F. Abisambra *Activation of PERK in controlled cortical impact model of traumatic brain injury. Alzheimer's Association International Conference | July 22-26, 2018, London*

3. Fabio Di Domenico, **Chiara Lanzillotta**, Antonella Tramutola, Eugenio Barone, Marzia Perluigi. *Intranasal rapamycin administration to prevent Alzheimer-like neurodegeneration in Ts65Dn mice*. 1st International Conference of the Trisomy 21 Research Society (T21RS) 2015 - Changing Paradigms in Down Syndrome". 7-11 June 2017, Chicago. United States.
4. Fabio Di Domenico, **Chiara Lanzillotta**, Antonella Tramutola, Eugenio Barone, Marzia Perluigi. *Intranasal rapamycin administration to prevent Alzheimer-like neurodegeneration in Ts65Dn mice*. 1st International Conference of the Trisomy 21 Research Society (T21RS) 2015 - Changing Paradigms in Down Syndrome". 7-11 June 2017, Chicago. United States.