

CURRICULUM VITAE

ANNA AVESANI



PERSONAL DETAILS

Address Via Torrente Vecchio 2B, 37127 Verona

Telephone 045-8027227

E-mail avesani.a@gmail.com

Skype anna.avesani3

CURRENT POSITION

Since October 2018

PhD Student in Biomolecular Medicine at the University of Verona

EDUCATION

October 2014

Master's degree in Medical Biotechnology and Molecular Medicine
University of Milan

Title of graduation thesis: "*Sindrome di Cornelia De Lange: il contributo del mosaicismismo somatico nel major gene NIPBL e ricerca di nuovi geni causative mediante sequenziamento dell'esoma*" (Supervisor Dr. Cristina Gervasini, Prof. Lidia Larizza)

October 2010

Bachelor's degree in Biomedical Laboratory Techniques - University of Verona

Title of thesis "*Studio degli effetti di tacrina, inibitore dell'acetilcolinesterasi attraverso modelli comportamentali di dipendenza da nicotina, nel ratto*" (Supervisor Prof. Cristiano Chimerula, Prof. Guido Fumagalli)

June 2007

Social and Pedagogy high school diploma - Liceo SocioPsicoPedagogico "C.Montanari", Verona

SCIENTIFIC AFFILIATIONS

Jun 2017 -Aug 2018

Post-Laurea scholarship in the laboratory of Physiology at the University of Verona with Prof. M. Buffelli

Research project: *Biomarcatori predittivi e diagnostici in patologie neoplastiche, infiammatorie e neurodegenerative*

	<p><u>Feb –May 2017</u></p> <p>Visiting student in the laboratory of Physiology at the University of Verona with Prof. M. Buffelli</p> <p><u>Jan 2016–Jun 2017</u></p> <p>Substitute teaching</p> <p><u>May-Oct 2015</u></p> <p>Post Lauream Scholarship at the Dep. Neuroscience, Biomedicine and Movement Science, University of Verona with Dr. Elena Bazzoli</p> <p><i>Research project: “Glioma: Meccanismi Di Progressione Tumorale.”</i></p> <p><u>Nov 2013-Oct 2014</u></p> <p>Internship at the Department of Health Sciences, University of Milan, with Dr. Cristina Gervasini</p> <p><u>Nov 2012-Oct 2013</u></p> <p>Internship in the laboratory of Molecular Pathology, Policlinico of Milan</p> <p><u>Nov 2009-Oct 2010</u></p> <p>Internship at the Department of Diagnostic & Public Health, University of Verona with Prof. Cristiano Chiamulera</p>
AREAS OF RESEARCH	<p>During my degree thesis I attended a laboratory of medical genetics, and I analyzed blood samples by PCR, DHPLC and Pyrosequencing with the aim to identify the genetic mosaicism in patients with Cornelia De Lange syndrome but without molecular diagnosis. In addition, I carried out experiments in order to identify new genes causative this rare genetic disease by NGS.</p> <p>In the laboratory of Physiology, I focused my attention on the role of microglia modulation in Alzheimer’s animal model by the application of immunofluorescence, confocal microscopy and 2-photons techniques. Furthermore, I worked on the morphological characterization of olfactory epithelium of normal subjects and patients with neurodegenerative diseases (Alzheimer’s and Parkinson’s) by immunofluorescence techniques.</p> <p>My PhD project focus on the characterization of proteins involved in the phototransduction mechanism in physiological condition and in genetic diseases. The research activities concern protein biochemistry, including protein expression and purification, structure–function relationship and interaction studies in vitro and in vivo.</p>

PUBLICATIONS AND SCIENTIFIC CONFERENCES	<p>Publication</p> <p>Brozzetti L., Sacchetto L., Cecchini M.P., Avesani A., Perra D., Bongianini M., Portoli C., Scupoli M., Ghetti B., Monaco S., Buffelli M. and Zanusso G. <i>Neurodegeneration-associated proteins in human olfactory neurons collected by nasal brushing</i> Front. Neurosci. 2020 doi:10.3389/fnins.2020.00145</p> <p>Borin M, Saraceno C, Catania M, Lorenzetto E, Pontelli V, Paterlini A, Fostinelli S, Avesani A, Di Fede G, Zanusso G, Benussi L, Binetti G, Zorzan S, Ghidoni R, Buffelli M, Bolognin S. <i>Rac1 activation links tau hyperphosphorylation and Aβ dysmetabolism in Alzheimer's disease</i>. Acta Neuropathol Commun. 2018 Jul13;6(1):61</p> <p>Posters presentation</p> <p>12-14 July, Young Researcher Vision Camp 2019, Castle Wildenstein (Germany) "<i>Biochemical and biophysical characterization of human GCAP2</i>" Anna Avesani, Valerio Marino, and Daniele Dell'Orco</p> <p>22-23 March 2019, 14th International Research Colloquium on Retinal Degeneration, Potsdam (Germany) "<i>Biochemical studies of human gcap2 and a putative variant involved in the retinal dystrophies</i>" Anna Avesani, Valerio Marino, Giuditta Dal Cortivo and Daniele Dell'Orco</p> <p>7-11 July 2018, Federation of European Neuroscience, Berlin (Germany) "<i>Glucocorticoids deeply affect spine plasticity and inflammation in an animal model of Alzheimer's Disease</i>" (co-author)</p> <p>1-4 October 2017, XVII National Congress of Italian Neurosciences Society, Ischia (Italy) "<i>Evaluation of glucocorticoids effects on dendritic spine plasticity, neurogenesis and inflammation in 3xTg-AD mice hippocampus</i>" (co-author)</p> <p>6-8 September 2017, 68th SIF National Congress, Pavia (Italy) "<i>Dissecting the effects of glucocorticoids on dendritic spine plasticity, neurogenesis and inflammation in 3xTg-AD mice hippocampus</i>" (co-author)</p> <p>30-31 October 2014, XVII National Congress of Italian Society of Human Genetics, Bologna (Italy) "<i>Exome Sequencing in patients with Cornelia de Lange Syndrome: the first Italian pilot – study</i>" (co-author)</p>		
LANGUAGES	Italian	English	
Reading	native language	intermediate	
Writing	native language	intermediate	
Speaking	native language	intermediate	

COMPUTER	<p>Operating system: Windows, Macintosh, Office (Word, Excel e Power Point)</p> <p>GeneScan Software, Graphpad, ChromasPro Software, Primer3 Software, Sequence Scanner Software.</p>
Lab Instruments experience	Golgi Technique; Primary Neuronal Cultures, Immunohistochemistry and Immunofluorescence; Microscopy, Neurolucida, LAS-AF, Imaris, RT-PCR and molecular biology, protein expression and purification, spectroscopy techniques
Other Titles	<p><u>November 2016</u> Exame to certificate the Professional Biologist (Univeristy of Parma)</p> <p><u>April 2017</u> Animal handling: Achieve European certification of C.I.R.S.A.L at University of Verona, April 20th 2017</p> <p>Workplace safety: 'Corso di formazione generale alla SSL per Lavoratori'; 'Gestione della Sicurezza nei Laboratori' (<i>art.37, D.Lgs 81/08</i>); 'Ruolo dei Dispositivi di Protezione Collettiva nel laboratorio biologico e nel laboratorio di analisi' <i>n. STPAP 160224-19</i>)</p>
Hobbies and Interests	<p>Voluntary at “<i>Clinica Madrugada Guinea-Bissau</i>”</p> <p><u>March-April 2018 and May 2019</u> in charge of management and in the implementation of technical instrumentation (HORIBA ABX analyzers and Cobas c311- Roche)</p> <p>Hobbies: passionate about reading, Cooking, montain, blues and Jazz music, volunteer at pediatric ward, babysitting, travel, theatre, arts & culture</p>

Autorizzo al trattamento dei miei dati personali ai sensi in conformità alla legge 196/03.
Verona, 21/04/20

Anna Avesani