

SURNAME/Name	NAPOLETANO Francesco
EDUCATION	Ph.D., Cellular and Molecular Biology, University of Milan (Italy). M.Sc. Biotechnology, University of Milan (Italy).
RESEARCH	
2018-	Ricercatore RTD-a (Applied Biology, SSD BIO/13), Department di Life Sciences, University di Trieste c/o Cancer Cell Signaling Group, International Center for Genetic Engineering and Biotechnology (ICGEB Trieste, Italy).
2016-2018	Post-doc, Unit of Molecular Oncology, Laboratorio Nazionale CIB (Trieste, Italy).
2011-2015	Post-doc, Unit of Apoptosis and Neurogenetics, Ecole Normale Supérieure de Lyon (France).
2006-2010	Ph.D., Dulbecco Telethon Institute c/o Unit of Neural Degeneration, San Raffaele Hospital, Milan (Italy).
2009	Visiting, MRC Centre for Developmental Neurobiology, King's College London (UK).
2007	Visiting, GeneCore, European Molecular Biology Laboratory Heidelberg (Germany)
2002-2005	Research Fellow, Unit of Developmental Neurobiology, San Raffaele Hospital, Milan (Italy).
2000-2001	M.Sc internship, Laboratory of Gene Therapy for Degenerative Diseases, University di Milan (Italy).
FUNDING	
2018-2021	University of Trieste FRA 2018 Starting Grant
2016-2018	European Union FP7/AIRC iCARE Reintegration Grant N°17885.
2011-2013	Association Française contre les Myopathies Post-Doctoral Fellowship N°15328.
2009	Unione Europea - Provincia di Milan Grant for Young Investigators.
TEACHING	
2018-2022	Applied Biology, B.Sc. Nursing, University di Trieste.
2018-2022	Applied Biology, M.Sc. Nursing and Midwifery Sciences University di Trieste.
2021-2022	Applied Biology, B.Sc. Psychiatric Rehabilitation Techniques, University di Trieste.
2020-2021	Applied Biology, B.Sc. Imaging and Radiotherapy Techniques, University di Trieste.
2019-2020	Applied Biology, B.Sc. Environment and Workplace Prevention Techniques, University di Trieste.
2021	Drosophila models to study human diseases, Ph.D. in Biomedical Sciences and Biotechnology, University di Udine
2016-2021	Drosophila models to study human diseases, Ph.D. in Molecular Biomedicine, University di Trieste
2016-2021	Drosophila models to study human diseases, M.Sc. Functional Genomics, University di Trieste.
2016-2021	Drosophila models to study human diseases, M.Sc. Medical Biotechnology, University di Trieste.
2009-2019	Developmental Genetics, M.Sc. Biotchnology, University of Milan ((Italy)
2018	Cancer Cell death, M.Sc. Functional Genomics, University di Trieste.
2017	Cancer Cell death, M.Sc. Functional Genomics, University di Trieste.
2016	Cancer metabolism, M.Sc. Functional Genomics, University di Trieste.
2012-2013	Genetics, M.Sc. Biosciences, Ecole Normale Supérieure de Lyon (France)
20123	Genetics, Don Bosco High School, Milan (Italy)
SEMINARS	
June 30 th 2021	Determinants of nuclear envelope structure and heterochromatin formation: the role of Pin1. 26th ICGEB Annual Symposium, Trieste. (Italy)
June 4 th 2021	Drosophila melanogaster reloaded: modelli "umanizzati" nell'era della medicina personalizzata. Seminario Interdisciplinare Unione Zoologica Italiana (UZI) - Research4life
March 31 st 2021	Drosophila come piattaforma di discovery e test farmacologici in vivo. Dipartimento di Scienze della Vita, 'Università di Trieste.
April 2015	p53-dependent programmed necrosis controls germ cell homeostasis during spermatogenesis, ICGEB, Trieste (Italy)
July 2015	p53-dependent programmed necrosis controls germ cell homeostasis during spermatogenesis, University Paul Sabatier, Toulouse (France).

COURSES

- 2009 Drosophila genetics and Genomics, Wellcome Trust Genome Center, Hinxton (UK).
 2005 School of Bioinformatics, Fondazione per la Biotechnologie, Villa Gualino Turin (Italy).

AFFILIATIONS

- 2012-2013 Société de Biologie Cellulaire de France (SBCF).
 2012-2013 Genetics Society of America (GSA).
 2011 Italian Society of Biochemistry and Molecular Biology (SIB).
 2001-2006 Young European Biotech Network (YEBN), Founding Member.
 2001-2006 Association of Italian Biotechnologists (ANBI), Founding Member, Member of Executive Committee.

LANGUAGES

English (fluent), French (fluent), Italian (mother tongue).

PUBLICATIONS

- 1) **Napoletano F***, Ferrari Bravo G, Voto IAP, Santin S, Celora L, Campaner E, Dezi C, Bertossi A, Valentino E, Santorsola M, Rustighi A, Fajner V, Maspero E, Ansaloni F, Cancila V, Valenti CF, Santo M, Artimagnella OB, Finaurini S, Gioia U, Polo S, Sanges R, Tripodo C, Mallamaci A, Gustincich S, d'Adda di Fagagna F, Mantovani F, Specchia V and Del Sal G*. The prolyl-isomerase PIN1 is essential for nuclear Lamin-B structure and function and protects heterochromatin under mechanical stress. **Cell Reports** 2021, in press. ***Corresponding Author**.
- 2) Fajner V, Giavazzi F, Sala S, Oldani A, Martini E, **Napoletano F**, Parazzoli D, Cerbino R, Maspero E, Vaccari T and Polo S. The ubiquitin ligase Hecw controls oogenesis and neuronal homeostasis by promoting the liquid state of ribonucleoprotein particles. **Nature Communications** 2021, in press.
- 3) Robin M, Issa AR, Santos CC, **Napoletano F**, Petitgas C, Chatelain G, Ruby M, Walter L, Birman S, Domingos PM, Calvi BR and Mollereau B. Drosophila p53 integrates the antagonism between autophagy and apoptosis in response to stress. **Autophagy** 2019 15(5) 771-784.
- 4) **Napoletano F**, Baron O, Vandenabeele P, Mollereau B and Fanto M. Regulated cell death and autophagy in physiopathology. **Trends in Cell Biology** 2019 29(4) 323-338.
- 5) Bertolio R, **Napoletano F**, Mano M, Maurer-Stroh S, Fantuz M, Zannini A, Biccato S, Sorrentino G and Del Sal G. Sterol regulatory element binding protein 1 couples mechanical cues and lipid metabolism. **Nature Communications** 2019 10:1326.
- 6) Van Den Brink DM, Cubizolle A, Chatelain G, Davoust N, Girard V, Johansen S, **Napoletano F**, Dourlen P, Guillou L, Angebault-Prouteau C, Bernoud-Hubac N, Guichardant M, Brabet P, and Mollereau B. Physiological and pathological roles of FATP-mediated lipid droplets in Drosophila and mice retina. **PLoS Genetics**, 2018 10;14(9):e1007627.
- 7) **Napoletano F**, Gibert B, Yacobi-Sharon K, Vincent S, Favrot C, Mehlen P, Girard V, Teil M, Chatelain G, Walter L, Arama E and Mollereau B. p53-dependent programmed necrosis controls germ cell homeostasis during spermatogenesis. **PLoS Genetics**, 2017 13(9):e1007024.
- 8) Mollereau B*, Maniè S and **Napoletano F***. Getting the better of ER stress. **Journal of Cell Communication and Signaling**, 2014 13(9):e1007024. ***Corresponding Author**.
- 9) Dichtel-Danjoy ML, Ma D, Dourlen P, Chatelain G, **Napoletano F**, Robin M, Corbet M, Levet C, Hafsi H, Hainaut P, Ryoo HD, Bourdon JC and Mollereau B. Drosophila p53 isoforms differentially regulate apoptosis and apoptosis-induced proliferation. **Cell Death and Differentiation**, 2013 20:108-16.
- 10) Dourlen P, Bertin B, Chatelain G, Robin M, **Napoletano F**, Roux MJ and Mollereau B. Drosophila Fatty Acid Transport Protein regulates Rhodopsin-1 metabolism and is required for photoreceptor neuron survival. **PLoS Genetics**, 2012 8(7):e1002833.
- 11) **Napoletano F**, Occhi S, Calamita P, Volpi VG, Blanc E, Charroux B, Royet J and Fanto M. Polyglutamine Atrophin provokes neurodegeneration in Drosophila by repressing fat. **The EMBO Journal**, 2011 30(5):945-58.
- 12) Nisoli I, Chauvin JP, **Napoletano F**, Calamita P, Zanin V, Fanto M and Charroux B. Neurodegeneration by polyglutamine Atrophin is not rescued by induction of autophagy. **Cell Death and Differentiation**, 2010 17(10):1577-87.

CONFERENCES	
03-06 June 2019	CellMech, Milan (Italy). Exploring the impact of mechanical stress in neurodegeneration. Napoletano F , Voto I, Ferrari Bravo G, Celora L, Poletto E, Perna A, Viotto D, Valentino E, Specchia V, Mmantovani F and Del sal G. (Poster Presenting Author).
22-25 October 2017	Junior European Drosophila Investigators (JEDI) Meeting, Porto Conte (Italy). Programmed necrosis controls germ cell homeostasis during Drosophila spermatogenesis. Napoletano F , Gibert B, Yacobi-Sharon K, Vincent S, Favrot C, Mehlen P, Girard V, Felten J, Chatelain J, Arama E and Mollereau B. (Speaker).
22-25 September 2017	25th European Drosophila Research Conference (EDRC), Londra (Regno Unito). Programmed necrosis control germ cell homeostasis during Drosophila spermatogenesis. Mollereau B, Vincent S, Yacobi-Sharon K, Gibert B, Mehlen P, Felten J, Chatelain G, Decoville M, Girard V, Arama E, and Napoletano F . (Poster Presenting Author).
14-16 September 2016	Italian Drosophila Research Conference (IDRC), Bologna (Italy). Programmed necrosis control germ cell homeostasis during Drosophila spermatogenesis. Napoletano F . (Speaker).
27-30 October 2014	28th Annual French Drosophila Conference, Sète (France). p53-dependent necrosis suppresses tumorigenesis in Drosophila. Napoletano F , Vincent S, Yacobi-Sharon K, Chatelain G, Arama E and Mollereau B. (Speaker).
16-19 October 2013	23rd European Drosophila Research Conference (EDRC), Barcellona (Spagna). Mutations in the Drosophila Rieske iron-sulfur protein induce neurodegeneration via p53-dependent alternative cell death pathways. Napoletano F , Lebrun D, Chatelain G, Desormeaux P and Mollereau B. (Poster Presenting Author).
13-14 June 2013	14th French Conference on Invertebrate Neurobiology, Lyon (France). Mutations in the Drosophila Rieske iron-sulfur protein induce neurodegeneration via p53- dependent alternative cell death pathways. Napoletano F . (Speaker).
3-7 April 2013	54th Annual Drosophila Research Conference, Washington D.C. (USA). Neurodegeneration in mitochondrial ComplexIII deficiency involves necrotic cell death. Napoletano F . (Speaker).
26-29 September 2012	MeetOchondrie Meeting, Souston (France). Mutation in the Rieske iron sulfur protein triggers caspase-independent neurodegeneration. Napoletano F , Chatelain G and Mollereau B. (Poster Presenting Author).
24-25 May 2012	Club de Neurobiologie des Invertébrés, Parigi (Francia). A Drosophila model for necrotic neurodegeneration and cell death. Napoletano F , Chatelain G and Mollereau B. (Poster Presenting Author).
18-21 November 2009	21st European Drosophila Research Conference (EDRC), Nizza (Francia). Transcriptional regulation by Atrophin in development and neurodegeneration. Napoletano F , Calamita P and Fanto M. (Poster Presenting Author).
23-25 October 2008	10th International EMBL PhD Symposium. Decision Making in Biology, Heidelberg (Germania). Transcriptional regulation by Atrophin in development and neurodegeneration. Napoletano F , Calamita P and Fanto M. (Poster Presenting Author).
23-27 August 2008	8th EMBL Transcription Meeting, Heidelberg (Germania). Transcriptional regulation by Atrophin in development and neurodegeneration. Napoletano F , Calamita P and Fanto M. (Poster Presenting Author).
19-20 June 2008	Molecular Mechanisms in Neuroscience Meeting, Milan (Italy). Transcriptional regulation by Atrophin in development and neurodegeneration. Napoletano F , Calamita P and Fanto M. (Poster Presenting Author).
13-15 September 2006	XIII Italian Drosophila Meeting, Bologna (Italy). Transcriptional regulation by Atrophin in development and neurodegeneration. Napoletano F , Calamita P and Fanto M. (Poster Presenting Author).