EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Name Telephone E-mail PEC Nationality LANZUOLO, CHIARA 0200660216 lanzuolo@cnr.it chiara.lanzuolo@pec.it Italian

WORK EXPERIENCE

Page 1 - Curriculum vitae of LANZUOLO, Chiara

Dates (from – to) Name and address of employer	September 2015-present Fondazione INGM – Istituto Nazionale Genetica Molecolare
· · · · · · · · · · · · · · · · · · ·	Milano, Italy.
 Type of business or sector 	Non-profit Research Institution
 Occupation or position held 	Head of Chromatin and Nuclear Architecture Unit
 Main activities and responsibilities 	Role of Lamin A/C in epigenetic control of transcription, interplay with PcG proteins, muscle differentiation
• Dates (from – to)	December 2013-present
 Name and address of employer 	CNR-Institute of Cell Biology and Neurobiology, Rome, Italy
 Type of business or sector 	Non-profit Research Institution
 Occupation or position held 	CNR-Researcher III level, permanent position
 Main activities and responsibilities 	Role of Lamin A/C in epigenetic control of transcription, interplay with PcG proteins, muscle differentiation
• Dates (from – to)	2012-2015
 Name and address of employer 	CNR-Institute of Cell Biology and Neurobiology, Rome, Italy
 Type of business or sector 	Non-profit Research Institution
 Occupation or position held 	<u>CNR-Researcher II Level</u> and Junior group leader as recipient of a starting grant from the Italian Ministry of Research and University
 Main activities and responsibilities 	Role of Lamin A/C in epigenetic control of transcription, interplay with PcG proteins, muscle differentiation
• Dates (from – to)	2009-2012
Name and address of employer	CNR-Institute of Cell Biology and Neurobiology. Rome. Italy
Type of business or sector	Non-profit Research Institution
 Occupation or position held 	CNR-Researcher III level, fixed term
 Main activities and responsibilities 	Epigenetic inheritance during the cell cycle.
• Dates (from – to)	2002-2008
Name and address of employer	Dr. Valerio Orlando' s laboratory. Telethon Foundation. Naples Italy
Type of business or sector	Non-profit Research Institution
Occupation or position held	Post Doc
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 Main activities and responsibilities 	Chromatin higher order structures, gene regulation. Function of the PcG regulated chromosomal loops in transcription
• Dates (from – to)	2007 (four months)
Name and address of employer	Collaboration with Dr Foiani, IFOM Fondazione Istituto FIRC di Oncologia Molecolare Milan, Italy
Type of business or sector	Non-profit Research Institution
 Occupation or position held 	Post Doc
Main activities and responsibilities	DNA triple helix in transcriptional repression
 Dates (from – to) 	2005 (one month)
Name and address of employer	Collaboration with Dr Dekker, University of Massachusetts Medical School Worcester, USA
 Type of business or sector 	Non-profit Research Institution
 Occupation or position held 	Post Doc
Main activities and responsibilities	Chromatin higher order structures, gene regulation.
• Dates (from – to)	2000-2002
 Name and address of employer 	Dr. Eric Gilson' s laboratory, Ecole Normale Superieure Lyon, France
 Type of business or sector 	Non-profit Research Institution
 Occupation or position held 	PhD in cotutelle
Main activities and responsibilities	Studies on EST2 and HTL1, two yeast genes that, in different ways, influence the chromosomal stability
• Dates (from – to)	1998-2000
 Name and address of employer 	Prof. John Finali Pulitzer's laboratory, University of Naples, Italy
 Type of business or sector 	Non-profit Research Institution
 Occupation or position held 	PhD in cotutelle
Main activities and responsibilities	Studies on EST2 and HTL1, two yeast genes that, in different ways, influence the chromosomal stability
• Dates (from – to)	1996-1998
 Name and address of employer 	Prof. John Finali Pulitzer's laboratory, University of Naples, Italy
 Type of business or sector 	Non-profit Research Institution
 Occupation or position held 	Undergraduate student
Main activities and responsibilities	Exploring Saccharomyces cerevisiae PET18 locus: identification of a new minigene involved in thermotolerance
EDUCATION AND TRAINING	
• Dates (from – to)	1998-2002
Name and type of organisation	Ecole Normale Superieure Lyon, France and University of Naples, Italy
 Principal occupational 	Ph.D. thesis
Title of qualification awarded	Ph.D.
• Dates (from – to)	1993-1998

Name and type of organisation
Principal occupational
Title of qualification awarded

University of Naples, Italy Undergraduate studies in Biological Science Degree in Biological Science, 110/110 cum laude

AWARDED GRANTS

 Dates (from – to) 	2017-2019
 Name of the organization 	AFM-Telethon
 Call identifier 	Research grant-21030
 Title of the project 	Deciphering the role of the heterochromatin conformation in Emery Dreifuss Muscular Dystrophy (EDMD)
• Dates (from – to)	2017-2020
Name of the organization	AIRC
Call identifier	My First AIRC Grant- MFAG18535
 Title of the project 	Deciphering the role of Polycomb bodies repositioning and heterochromatin conformation in prostate cancer progression
• Dates (from – to)	2016-2019
Name of the organization	Italian Ministry of Health (MoH)
Call identifier	Young Researcher program – Bando Ricerca Finalizzata 2013.
 Title of the project 	Role of Lamin A/C-Polycomb crosstalk in Emery-Dreifuss Muscular Dystrophy (EDMD)
• Dates (from – to)	2012-2015+3 year
 Name of the organization 	Italian Ministry of Research and University (MIUR)
 Call identifier 	Epigenomics Flagship Project
Title of the project	Epigenetic mechanisms in Hutchinson-Gilford progeria syndrome
• Dates (from – to)	2012-2015+2 year
 Name of the organization 	Italian Ministry of Research and University (MIUR)
 Call identifier 	Young Researcher program - FIRB 2010
 Title of the project 	Role of Polycomb mediated epigenetic signature in laminopathies: analysis by innovative genome wide technology and high-performance numerical algorithms for Live Cell Imaging

INVITED PRESENTATION

(including only personal invitations) • Year 2018 Meeting Location • Title of the talk

Berlin Meeting on Myogenesis and Muscle Disease

Year

 Institute Location

• Title of the talk

Berlin April 23-27 TBD

2017

Institute for Research on Cancer and Aging (IRCAN) Nice, France, April 12 Functional dysfunction of muscle stem cells as a determinant of Emery Dreifuss Muscular Dystrophy (EDMD)

Meeting	International Meeting on Laminopathies
 Location 	Bologna April 6-8
• Title of the talk	Functional dysfunction of muscle stem cells as a determinant of Emery Dreifuss Muscular Dystrophy (EDMD)
Meeting	1st qBio mini-Workshop
 Location 	IFOM-IEO February 20-21
Title of the talk	Nuclear architecture dynamics in biological processes and disease
• Year	2016
 Institute 	Istituto Telethon di Genetica e Medicina (TIGEM)
 Location 	Pozzuoli, NA, Italy September 20
Title of the talk	Impairment of nuclear architecture in Emery Dreifuss muscular dystrophy
Meeting	12 th International Cell Biology Congress
 Location 	Prague, Czech Republic July 21-25
Title of the talk	Impairment of LaminA/C-Polycomb crosstalk in Emery Dreifuss muscular dystrophy
Meeting	Chromatin, epigenome & drug discovery: training school
 Location 	Seconda Università degli Studi di Napoli, Italy. March 21-23
Title of the talk	Lamin A: a paradigm for translational epigenetic studies
• Year	2015
Institute	Institut de Myologie
 Location 	Paris, France. June 8
Title of the talk	The epigenetic role of Lamin A in muscle differentiation and disease
Meeting	Epigen Chromatin Seminars
 Location 	Naples, May 11
Title of the talk	The epigenetic role of Lamin A/C in modulating Polycomb proteins nuclear architecture
Meeting	The first French-Italian meeting on Laminopathies
 Location 	Marseille, France. January 15-16
• Title of the talk	Impairment of LaminA/C-Polycomb crosstalk as a possible epigenetic cause of Emery Dreifuss Muscular Dystrophy (EDMD)
• Year	2014
 Institute 	Fondazione Istituto Nazionale Genetica Molecolare (INGM)
 Location 	Milan, Italy. July
Title of the talk	The epigenetic role of Lamin A in muscle differentiation
Institute	Ceinge Institute
 Location 	Naples, Italy. February
Title of the talk	Epigenetics and nuclear structures: The role of Lamin A in muscle differentiation
• Year	2013

Meeting	FEBS Workshop: Translating Epigenomes into Function: a Next-generation Challenge for Human Disease
 Location 	Capri, Italy. October 13-16
Title of the talk	The epigenetic aspect of nuclear Lamin A: a role in PcG mediated functions
• Institute	Institute of Protein Biochemistry, CNR
• Location	Naples, Italy. June 14
Title of the talk	Epigenetics and nuclear structures: The role of Lamin A in muscle differentiation
• Institute	Institute of Molecular Biology and Pathology, CNR
• Location	Rome Italy. February 4
Title of the talk	Epigenetics and nuclear structures: The role of Lamin A in muscle differentiation
• Year	2012
• Meeting	Joint meeting: PhD in Phylosophy, Torvergata and PhD in Cellular and Molecular Biology
 Location 	Rome, Italy. October, 4
Title of the talk	Biodiversity as human genome interpretation
Institute	European laboratory of Non-Linear Spectroscopy, LENS
 Location 	Florence, Italy. July, 3
Title of the talk	Epigenetics in disease and cancer
Institute	Institute of Genetics and Biophysics, CNR
 Location 	Naples, Italy. January, 30
Title of the talk	The inheritance of epigenetic signatures during DNA replication
• Year	2011
 Institute 	Institute of Cellular Biology, CNR
 Location 	Rome, Italy. November 15
Title of the talk	The inheritance of epigenetic signatures during DNA replication
• Year	2010
• Meeting	l ecnologie emergenti per la Genomica funzionale
• Location	Rome, Italy. November 22
• Title of the talk	Methods for chromatin tridimensional analysis
• Year	2009
Institute	University of Naples "Federico II"
 Location 	Naples, Italy. April 7
• Title of the talk	Mechanisms for the maintenance of epigenetic signatures through DNA replication
• Meeting	First ROC international Workshop on chromatin immunoprecipitation related Techniques
 Location 	Rome, Italy. November 11
Title of the talk	Nuclear organization and epigenetic networks

ORGANIZATION OF SCIENTIFIC MEETINGS

• Year	2017
 Meeting 	International Meeting of Laminopathies
Location	Bologna, April, 6-8
• Year	2016
 Meeting 	Le potenzialità dell'epigenetica nella cura delle malattie rare
 Location 	Padova October, 26
• Year	2015
 Meeting 	Epigen Chromatin Seminars: The use of imaging in epigenetic studies
 Location 	Rome, November, 9
 Invited speakers 	Maria Elena Torres Padilla, Jop Kind, Maria Matarazzo, Giovanni D'Angelo
• Year	2014
 Meeting 	Epigen Chromatin Seminars: Epigenetics: from nuclear structure to cell fate
 Location 	Rome, October, 29
 Invited speakers 	Susan Gasser, Phil Avner, Marco Foiani, Pier Lorenzo Puri

Editorial activity

Ad Hoc	reviewer:	
	peer-review jourr	als: JCB, Experimental Cell Research, Epigenetics & Chromatin, PNAS, PLoS-ONE, NAR, PLoS Genetics, Scientific Reports, BJMMR, JOCES, Cells.
funding agencies:	 The French Muscular Dystrophy Association (AFM-Téléthon), The Austrian Science Fund (FWF) 	
Invited	Editor	Special issue in "Methods in Molecular Biology" by Springer "The Polycomb group of proteins" N 1480. 2016

Teaching

2016, 2017	Teacher in Nuclear architecture and transcription at Molecular Biology course, Faculty of Medical Biotechnologies and Molecular Medicine, University of Milan
2012,2013,2014	Teacher in epigenetics and cell differentiation at Cell differentiation course, Faculty of Science, University of Rome
2012	Teacher in epigenetics and cell differentiation at PhD course of Medical Genetics, Rome
	Teacher in epigenetics and cell differentiation at "Tasso" High School, Rome
2007	Teacher in EMBO Practical Course on Chromatin Immunoprecipitation & Related Techniques, Heidelberg
1999	Teacher in the course of Genetics of Microorganisms, Faculty of Sciences, University of Naples

1994-present

- Supervisor of 6 undergraduate students and actually of two PhD student and 3 Post Doc.

- Acted as jury member in two PhD thesis defenses in Milan and Rende, Italy.

List of publications as corresponding Author.

1. Marasca F, Marullo F and Lanzuolo C

"Determination of PcG proteins nuclear compartmentalization through chromatin fractionation procedure" *Methods Mol Biol.* 2016; 1480:167-80

 Marullo F., Cesarini E., Antonelli L., Gregoretti F., Oliva G. and Lanzuolo C
 "Nucleoplasmic Lamin A/C and Polycomb group of proteins: an evolutionarily conserved interplay " Nucleus. 2016 Mar 1: 1-9

3. Lanzuolo C

"Impairment of Lamin A/C-Polycomb crosstalk as a possible epigenetic cause of Emery Dreifuss Muscular Dystrophy (EDMD)" Orphanet Journal of Rare Diseases. 2015 Nov 11; 10(Suppl 2):O10

4. Cesarini E, Mozzetta C, Marullo F, Gregoretti F, Gargiulo A, Columbaro M., Cortesi A, Antonelli L, Di Pelino S, Squarzoni S, Palacios D, Zippo A, Bodega B, Oliva G and Lanzuolo C "Lamin A/C sustains PcG proteins architecture maintaining transcriptional repression at target genes" J Cell Biol. 2015 Nov 9;211(3):533-51

selected from the journal's editors for an interview

(http://jcb.rupress.org/content/211/3/533/suppl/DC2)

commented in a a layman's summary in Atlas of Science: Lanzuolo C "Control of cell identity by the nuclear architecture" (<u>http://atlasofscience.org/control-of-cell-identity-by-the-nuclear-architecture/</u>)

5. Bianchi A and Lanzuolo C

"Into the chromatin world: Role of nuclear architecture in epigenome regulation" *AIMS Biophysics* 2015 Oct 27; 2(4): 585-612

6. Lanzuolo C and Orlando V

"Memories from the Polycomb group of proteins" Annu Rev Genet 2012;46:561-89. [review]

7. Lanzuolo C

"Epigenetic alterations in muscular disorders" Comp funct genomics 2012; 2012:256892. [review]

8. Lanzuolo C, Lo Sardo F, Orlando V

"Concerted epigenetic signatures inheritance at PcG targets through replication" *Cell Cycle* 2012 Apr 1;11(7):1296-300.

9. Lanzuolo C, Lo Sardo F, Diamantini A. Orlando V.

"PcG complexes set the stage for epigenetic inheritance of gene silencing in early S phase before replication" *PLoS Genet.* 2011 Nov;7(11):e1002370.

List of publications as First Author.

1. Lo Sardo F*, Lanzuolo C*, Comoglio F, De Bardi M, Paro R, Orlando V "PcG mediated higher order chromatin structures modulate replication programs at the Drosophila BX-C" *PloS Genetics* 2013;9(2):e1003283 *** These authors contributed equally** 2. **Lanzuolo C**, Roure V, Dekker J, Bantignies F, Orlando V.

"Polycomb response elements mediate the formation of chromosome higher-order structures in the bithorax complex" *Nat Cell Biol.* 2007 Oct 9(10):1167-74

3. Lanzuolo C and Orlando V.

"The function of the epigenome in cell reprogramming" Cell Mol Life Sci, 2007 May 64(9):1043-62 [review]

4. Eugster A*, **Lanzuolo C***, Bonneton M, Luciano P, Pollice A, Pulitzer JF, Stegberg E, Berthiau AS, Forstemann K, Corda Y, Lingner J, Geli V, Gilson E.

"The finger subdomain of yeast telomerase cooperates with Pif1p to limit telomere elongation" *Nat Structl Mol Biol.* 2006 Aug 13(8):734-9. * **These authors contributed equally**

5. Lanzuolo C., Ederle S., Pollice A., Russo F., Storlazzi A. and Pulitzer J.F.

"The HTL1 gene (YCR020W-b) of *Saccharomyces cerevisiae* is necessary for growth at 37°C, and for the conservation of chromosome stability and fertility" *Yeast* 2001 Oct 18 (**14**): 1317-1330

Other publications

1. Bodega B, Marasca F, Ranzani V, Cherubini A, Della Valle F, Neguembor MV, Wassef M, Zippo A, **Lanzuolo C**, Pagani M and Orlando V

" A cytosolic Ezh1 isoform modulates PRC2-Ezh1 epigenetic adaptive response in post-mitotic cells " *Nat Structl Mol Biol. In press*

2. Antonelli A, Gregoretti F, Cesarini E, **Lanzuolo C** and Oliva G "An Automatic Segmentation Method Combining an Active Contour Model and a Classification Technique for Detecting Polycomb-group Proteins in High-Throughput Microscopy Images" *Methods Mol Biol.* 2016; 1480:181-97

3. Cernilogar F.M., Burroughs A.M., **Lanzuolo C**, Breiling A., Imhof A., Orlando V "RNA-interference components are dispensable for transcriptional silencing of the *Drosophila* Bithorax-Complex" *PloS One* 2013 Jun 13;8(6):e65740

4. De Zio D., Bordi M., Tino E., **Lanzuolo C**, Ferraro E., Mora E., Ciccosanti F., Fimia G.M., Orlando V., Cecconi F.

"The DNA repair complex Ku70/86 modulates *Apaf1* expression upon DNA damage" *Cell Death Differ.* 2010 Oct 22: 516-527

5. Florio C, Moscariello M, Ederle S, Fasano R, **Lanzuolo C**, Pulitzer JF "A study of biochemical and functional interactions of Htl1p, a putative component of the Saccharomyces cerevisiae, Rsc chromatin-remodeling complex" *Gene* 2007 Jun 15; 395(1-2): 72-85

Presto il consenso al trattamento dei dati personali ivi contenuti. Milano, 07 Marzo 2017 Firma

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