

# CURRICULUM VITAE

## PERSONAL DETAILS

Surname VENTURA

Forename MARIO

Date of birth 11th October, 1975

Sex Male

Nationality Italian

Marital status Single

Present address:

University of BARI,

Dipartimento di Biologia

Via Orabona 4 – Bari 70125

Phone: 00390805443583 - Fax: 0039 080 5443386

e-mail: [mario.ventura@uniba.it](mailto:mario.ventura@uniba.it)

Orchid number: 0000-0001-7762-8777

ResearcherID: E-6420-2011

## EDUCATION

04 March 2013 Associate professor in Genetics (BIO18) at the Department of Biology, University of Bari (Actual position)

01 January 2012 Affiliate professor in Genetics (BIO18) at the Department of Genome Sciences, University of Washington (Seattle, WA) (Actual position)

02 January 2004 Researcher in Genetics (BIO18) (Assistant Professor, permanent position) at the Biotechnology Sciences Faculty

07 March 2003 Ph.D in Genetics and Molecular Evolution, University of Bari, with the thesis “Human Genome Plasticity: Pericentromeric regions and Neocentromeres”

21 July 1999 Graduate in Biological Sciences, University of Bari, (Italy) with “110/110 cum laude” (equivalent to First Class Honors) with the thesis in Cytogenetics “evolution of chromosome X in Lemurs”

## DIDACTICS ACTIVITIES

2001-up to now I was tutor of several students in their Master Degree Thesis in Biological Sciences and Biotechnology Science Faculty and mentor of PhD students.

In detail the taught courses:

### As Associate Professor

- 2018-2019 Genetics in School of Specialization of Pathological Anatomy (Medicine)
- 2018-2019 Molecular and Human Evolutionary Genetics in Biology Major
- 2018-2019 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major
- 2017-2018 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major
- 2016-2017 Genetics and Biometry in Medical and Pharmaceutical Biotechnology Major

- 2016-2017 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major
- 2015-2016 Genetics and Biometry in Medical and Pharmaceutical Biotechnology Major
- 2015-2016 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major
- 2014-2015 Genetics and Biometry in Medical and Pharmaceutical Biotechnology Major
- 2014-2015 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major
- 2013-2014 Genetics and Biometry in Medical and Pharmaceutical Biotechnology Major
- 2013-2014 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major

**As Assistant Professor**

- 2012-2013 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major
- 2012-2013 Genetics and Biometry in Medical and Pharmaceutical Biotechnology Major
- 2011-2012 Molecular genetics and genetic engineering in Medical and Pharmaceutical Biotechnology Major
- 2008-2009 Genetics and Genetic engineering in Health and Pharmaceutical Biotechnologies
- 2008-2009 Medical Genetics and Laboratory of human diseases in Health and Pharmaceutical Biotechnologies
- 2008-2009 Laboratory of human cytogenetics in Health and Pharmaceutical Biotechnologies
- 2007-2008 Genetics and Genetic engineering in Health and Pharmaceutical Biotechnologies
- 2007-2008 Medical Genetics and Laboratory of human diseases in Health and Pharmaceutical Biotechnologies
- 2006-2007 Genetics and Genetic engineering in Health and Pharmaceutical Biotechnologies
- 2005-2006 Genetics and Genetic engineering in Health and Pharmaceutical Biotechnologies
- 2004-2005 Genetics and Genetic engineering in Health and Pharmaceutical Biotechnologies
- 2004-2005 Gene Therapy and Human Cytogenetics Laboratory in Health and Pharmaceutical Biotechnologies
- 2003-2004 Genetics and Genetic engineering in Health and Pharmaceutical Biotechnologies

**As PhD student:**

- 2002-2003 General genetics in Biological Science
- 2002-2003 General genetics and Genetic engineering in Health and Pharmaceutical Biotechnologies

- 2001-2002 General genetics in Biological Science
- 2000-2001 Cytogenetics in Biological Science

### **ACADEMIC ACTIVITIES**

- 2015-2018 Member of the Council “Giunta” of the Biology Department
- 2015-2018 Tutor of RTD-A (Ricercatore a Tempo Determinato tipo A, Dr. Claudia Rita Catacchio) for the project: “Valorizzazione del potenziale genetico di varietà di uve da tavola come strategia di coltivazione e gestione ecocompatibile della risorsa idrica”
- 2014-2017 Member of the Council “Giunta” of the Biotechnology Degree
- 2013-2018 Associate Professor at PhD in Biodiversity, Agriculture and Environment.
- From 2017 Responsible of the Curriculum of Genetics and Molecular Evolution at the PhD in Biodiversity, Agriculture and Environment
- 2004-2008 Apprenticeship Commission member in the Biotechnology Sciences Faculty
- 2004-2012 Assistant Professor in PhD School in Genomics and Proteomics

### **RESEARCH BACKGROUND AND WORK EXPERIENCE**

- January 2012 up to now Affiliate Professor in Genetics (BIO18) at Genome Science Department (University of Washington – Seattle - Washington)
- Jan 2010-Nov 2011 Visiting assistant Professor in Genetics (BIO18) at Genome Science Department (University of Washington – Seattle - Washington)
- May-October 2009 Visiting Scholar in Genetics (BIO18) at Genome Science Department (University of Washington – Seattle - Washington)
- August-Nov 2008 Visiting Scholar in Genetics (BIO18) at Genome Science Department (University of Washington – Seattle - Washington)
- March-October 2007 Assistant Professor in Genetics (BIO18) at Genome Science Department (University of Washington – Seattle - Washington)
- 1/12/02 Post Doc position (Co.Co.Co grant) at Genetics and Microbiology Department sponsored by INPRIMAT (European Community Association)
- 11/00-08/01 Experience at the Newcastle University (UK) in the Human Genetics Laboratory, supervisor M.S. Jackson studying the chromosome 10 pericentromeric region in baboon
- 01/01 Principal Investigator in “Young Researchers Project” for the project “BAC probe database as Molecular Cytogenetic Resource” at the University of Bari (Italy)

### **OTHER PROFESSIONAL ACTIVITIES**

#### **Invited speaker or selected oral presentation**

- 14-15/06/2018 Invited speaker at Scuola di Citogenetica Molecolare in Cortona (Italy) with the presentation intitled: “La FISH applicata allo studio delle duplicazioni segmentali e copy number variations (CNVs)”
- 1-4/07/2017 Invited speaker at 11<sup>th</sup> European Cytogenetic Conference with the presentation entitled: “Evolutionary instability and disease susceptibility of the chromosome 8p23.1 region”

- 9-10/05/2016 Invited speaker and chairman at 4<sup>th</sup> Plant genomic Congress with the presentation entitled: “Genomic technologies to uncover inter-varietal structural variation in grape genome”
- 28-30/09/2015 Invited speaker at Joint Meeting AGI-SIMA-Cortona (IT) with the presentation entitled: “Organization and evolution of primate genomes”
- 25-28/09/2013 Invited speaker at XVI Congresso Nazionale – Societa’ Genetica Umana (SIGU) with the presentation entitled: “L'architettura del Cromosoma 16 guardando l'evoluzione e la predisposizione ai disordini genomici”
- 29/6-2/07/2013 Invited speaker at 9<sup>th</sup> European Cytogenetics Conference-Dublin (IR) with the presentation entitled: “Chimpanzee and Gorilla genomes: insights from molecular cytogenetics and next generation sequencing”
- 24-27/09/12 Oral presentation at 12th FISV-Rome entitled: "Gorilla genome structural variation reveals evolutionary parallelisms with chimpanzee"
- 20-22/10/05 Oral presentation entitled: “Evolutionary Centromere repositioning” during the “array-CGH and Molecular Cytogenetic conference” (Bari, Italy)
- 01/10/04 Oral presentation entitled: “Centromere reuse in the evolution” at “arrayCGH and Molecular Cytogenetic conference” (Cambridge, UK)
- 18-20/11/01 Oral presentation at the X Scientific Convention Telethon (Riva del Garda, Italy)
- 19-22/04/01 Oral presentation entitled: “Centromere repositioning in Lemurs” at the HGM 2001 Edinburgh, Scotland
- 29/9-1/10/99 Oral presentation entitled: “Evolution of X chromosome in Lemurs” at the 2° SIGU Congress (Orvieto, Italy)

#### **Congresses and conferences**

- 07-08/04/06 2nd International Meeting on Cryptic Chromosomal Rearrangements in Mental Retardation and Autism. Troina (EN), Italy
- 1-2/02 Confocal Microscopy Course – Labo-Biotech (Bari, Italy)
- 18-19/01 RT-PCR course Genetics and Microbiology Department (Bari, Italy)
- 15-19/10/02 52° “Annual Meeting” of the American Society of Human Genetics (ASHG) Baltimore (MD)
- 24-27/9/02 V National Congress of “Societa’ Italiana di Genetica Umana” (SIGU) at Verona (Italy)
- 20-24/8/02 4° Molecular Cytogenetics and DNA Arrays Course sponsored by European School of Genetic Medicine at Bertinoro (Bologna, Italy)
- 28-30/11/01 IV National Congress of “Societa’ Italiana di Genetica Umana” (SIGU) at Orvieto (TN, Italy)
- 12-16/10/01 51° “Annual Meeting” of the American Society of Human Genetics (ASHG) San Diego (CA)
- 19-21/06/00 A.G.I. Course “Structural and Functional analysis of the Genome” (Crotona, AR, Italy)
- 14-18/11/99 First course of “Molecular Cytogenetics” in Sestri Levante (Genoa)

#### **MEMBERSHIP AND ACTIVITIES IN PROFESSIONAL ASSOCIATION**

- From 2017 up to now BMC Evolutionary Biology Associate editor
- 30/09/2015-30/09/2017 Board member of Associazione Genetica Italiana (AGI)

- From 2016 up to now webmaster of Associazione Genetica Italiana (AGI) website
- From 2016 up to now Expert in Genetics and Molecular Biology of CREA (Consiglio per la ricerca in Agricoltura e l'Analisi dell'Economica Agraria (di cui all'articolo 4, comma 1, lettera c) del Regolamento di organizzazione e funzionamento)
- From 2010 up to now BMC Genomics Associate editor
- 2007 Reviewer activity for Fulbright Commission
- 25-26/09/04 Faculty member for the Symposium "Human Genome Evolution"
- 10/08/04 Quality Board member for the Research Infrastructure to Promote Primate Molecular Biology (INPRIMAT)

## **PROFESSIONAL AWARDS**

- 2018 Winner of the "Finanziamento delle attività base di ricerca" as Associate Professor in Genetics (BIO/18)
- 28/11/2018 till now part of TIS-Apulia (Top Italian Scientist of Apulia) group <http://tis-apulia.di.uniba.it/>
- 13/07/2018 till 12/07/2024 4<sup>th</sup> classified as "Dirigente di Ricerca I livello professionale del CNR - Area Strategica Genetica bando 367.152 DR"
- 12/04/2017 till 12/04/2023 at National Scientific Qualification (ASN) as Full Professor in Genetics (BIO18)
- 2016 up to now part of the reviewer panel for REPRIZE as Associate Professor in Genetics (BIO/18) for the ERC areas: Genomics, comparative genomics, functional genomics (LS2\_1) and Bioinformatics (LS2\_10) ([https://reprise.cineca.it/nuova\\_ui/cruscotto](https://reprise.cineca.it/nuova_ui/cruscotto))
- 2007 Winner for the competition "Premio Ponzano per la scienza". Selection for the best young Italian researcher in Genetics.
- 2007 Fulbright Research Scholarship for the research project "Human Genome Structural Variation and Genetic Disease". The project was performed at the University of Washington- Seattle (Dr. E. E. Eichler).
- 2006 Winner of the prize "Cataldus d'Argento". Selection for the best young Italian researcher (work field-Genetics).
- 2001 EMBO Short-term fellowship for the project "Evolution of pericentromeric regions and their plasticity". The project was performed at the Newcastle University in the Human Genetics Laboratory (Tom Strachan Director).

## **FUNDING**

### **As Principal Investigator:**

- 2012-2017 Futuro in Ricerca 2010-RBFR103CE3 "Variazione genomica strutturale in primati e mammiferi: nuove prospettive per studiare l'evoluzione dell'uomo"
- 2010-2013 PON02\_00186\_2866121 "Promozione di Processi ECO\_sostenibili per la valorizzazione delle Produzioni agroalimentari Pugliesi (ECO\_P4)"
- 2010-2013 ERC ESR-LS2\_260372 in co-PI with Tomas Marques-Bonet "Identification and characterization of primate structural variation and an assessment of intra-specific patterns of selection and copy-number variation" ESR-LS2\_260372
- 2007-2010 PRIN 2007Z5X4YA\_001 "Genomic Organization and Sequence Characterization of Primate Pericentromeric Regions"

- 2007-2003 Post-doc position funding for the project: “BAC contigs through genomic library screenings to characterize pericentromeric regions in Primates”
- 2005 National University Funding about “Neocentromeres analysis in clinical cases and evolution”
- 2004 National University Funding about “Chromosomal inversions and segmental duplications”

**As part of research group:**

- 2005-2007 PRIN for the project: “New methodological approach to reveal paracentric inversion”. Principal Investigator: Prof.ssa Nicoletta Archidiacono
- 2004-2006 PRIN for the project: “Human Genome Plasticity”. Principal Investigator: Prof. Mariano Rocchi
- 2004 INPRIMAT funding from European community to set up a European Primates Consortium.

**PERSONAL SKILLS AND COMPETENCES LANGUAGES**

Italian, mother language

English, excellent level