

MARIANO ROCCHI

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Mariano Rocchi obtained his degree in biology from the University of Rome in 1975. Then he held positions at The Pediatric Hospital in Trieste and (1976-1984), the Gaslini Institute in Genoa (1984-1988). In 1988-89 he was a visiting scientist at the Wayne State University in Detroit. In this period he extensively used somatic cell hybrid technology for human gene mapping. In 1990 he moved to the University of Bari as full professor in Genetics. In recent years his group has focused on the karyotype evolution of primates using a punctuated analysis to track syntenic conservation. He collaborated, using molecular cytogenetic techniques, in the sequence assembly of chimpanzee, macaque, orangutan, and marmoset genomes. Using molecular cytogenetics, his group disclosed an unpredicted phenomenon Evolutionary New Centromeres (ENC) which is the movement of the centromere along the chromosome during evolution without any change in marker order. This phenomenon is relatively widespread and frequent. ENC has had a significant impact on shaping chromosomal architecture in primates, in the dispersal of segmental duplications in the genome, and, probably, in speciation.

CURRICULUM VITAE

Data e luogo di nascita: 30 gennaio 1947, Cellere (VT)
Nazionalita': Italiana
Stato di famiglia: Sposato con due figli
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Studi

1975 Laureato in Biologia con 110/110 e lode, presso l'Istituto di Genetica di Roma, con una tesi in Citogenetica, pubblicata poi su Journal de Genetique Humaine (pubblicazione n.4).

Carriera

1976 Assistente Biologo presso il Servizio di Genetica-Cattedra di Genetica Medica dell'Istituto per l'Infanzia di Trieste.
1984 Assistente Biologo presso il Laboratorio di Genetica Molecolare dell'Istituto G.Gaslini di Genova.
1988 Aiuto presso il Laboratorio di Genetica Molecolare dell'Istituto G.Gaslini di Genova.
1988-89 Visiting Scientist presso il 'Molecular Biology Center' diretto dal Prof. O.J.Miller, alla Wayne State University di Detroit (USA)
1990-93 Professore Straordinario di Citogenetica presso la Facolta' di Scienze MM.FF.NN. della Universita' di Bari.
1993-98 Direttore dell'Istituto di Genetica della Facolta' di Scienze, Universita' di Bari
1993- Professore Ordinario di Citogenetica presso la Facolta' di Scienze MM.FF.NN. della Universita' di Bari.
1995- Coordinatore del Dottorato in Genetica ed Evoluzione Molecolare, Universita' di Bari
1998-99 Tra gli Editors di Cytogenetics and Cell Genetics
1997-2000 Membro del Comitato scientifico dell'AIRC (Associazione Italiana Ricerca sul Cancro)
1999- Direttore del Corso di Molecular Cytogenetics organizzata annualmente dalla European Genetic Foundation.
1999- Membro del Collegio dei Docenti dell'European Diploma in Cytogenetics (Nimes, France).
2001- Membro del Direttivo della European Cytogeneticists Association
2005-08 Editorial Board Member della rivista Cytogenetics and Genome Research

2005- Membro del Scientific Programme Committee della European Society of Human Genetics
2010- Chair of the Scientific Programme Committee of the European Cytogeneticists Association
2010- Editorial Board of BMC Genetics
2010- Tra i ricercatori Italiani con H-index >30
(http://www.topitalianscientists.org/Top_italian_scientists_VIA-Academy.aspx)
2011- Direttore del Dipartimento di Biologia della Università di Bari

Reviewer for: Nature Review Genetics, American J. of Human Genetics, Trends in Genetics, Genome Research, Human Genetics, Genes Chromosomes & Cancer

Seminari ad invito:

February 6 2011

As Faculty member:

European Advanced Postgraduate Course in Classical and Molecular Cytogenetics

Lecture: Molecular cytogenetics: production and use of molecular probes.

Nimes, France

Plasticity of the human genome

Resources Molecular Cytogenetics

February 3, 2011

Humanitas Institute, Milan

Genome Plasticity

December 22, 2010

IFOM-IEO, Milan

Human genome plasticity

November 26, 2010

AGI (Italian Genetics Association), Cortona, Italy

Genomic disorders.

October 2, 2010

Congresso GIC, Urbino

Sequenziamento massivo: la nuova PCR?

September 23, 2010

Evolutionary centromeres

Goldrain Course in Clinical Genetics

Goldrain, Bolzano

June 13, 2010

Invited speaker

Human evolutionary neocentromeres

Meeting of the European Society of Human Genetics

Gothenburg, Sweden

May 16, 2010

Conference on Human Genomic and Cultural Evolution

Human genome plasticity

Ronzano (Bologna)

March 8 2010

Human genome plasticity

Invite speaker Izmir (Turkey)

Meeting on Cancer

February 20 2010

As Faculty member: Plasticity of the human genome

European Advanced Postgraduate Course in Classical and Molecular Cytogenetics

Lecture: Molecular cytogenetics: production and use of molecular probes.
Nimes, France

October 15, 2009

Congresso GIC, Ferrara
Omaggio a Darwin

September 23, 2009

Universita' degli Studi di Milano
Omaggio a Darwin: un'altra maniera di vedere il mondo.

July 6, 2009

7th International Cytogenetic Conference
Invited Speaker
Evolutionary neocentromeres
Stockholm, Sweden

June 25, 2009

Invited speaker
Evolutionary neocentromeres
17th Chromosome Conference
Boone (NC, USA)

April, 23, 2009

So similar, so different
Seminar at SISSA, Trieste

February 28, 2009

As Faculty member: Plasticity of the human genome
European Advanced Postgraduate Course in Classical and Molecular Cytogenetics
Lecture: Molecular cytogenetics: production and use of molecular probes.
Nimes, France

October 24, 2008

Course in Integration of cytogenetics, microarrays and massive sequencing in biomedical and clinical research, Ronzano
Human genome plasticity

September 25, 2008

FISV annual meeting, Riva del Garda
Copy Number Variation: an introduction

September 13, 2008

Braga, MC-GARD Training Course (Marie Curie Action)
Cross species genome comparisons

August 8, 2008

Sidney,
Karyotype Evolution and Centromere Repositioning
Children's Hospital, The University of Sydney, Australia

August 6, 2008

Adelaide, Human Genetics Society of Australasia
Centromere Repositioning

March 26, 2008

Invited Speaker: Human genome Plasticity
Tigem, Napoli

December 7, 2007

Seminar: Human genome Plasticity
PhD program
University of Salerno, Italy

October 26, 2007

Seminar: Human genome Plasticity
CNR-ITB Milano

October 15, 2007

Seminar: Human genome Plasticity
Course in DNA Microarrays and Molecular Cytogenetics
Bertinoro, Italy

September 11, 2007

Invited Speaker: Human genome Plasticity
Annual meeting of the British Society of Human Genetics
York, UK, September 10-12, 2007

February 24, 2007

As Faculty member: Plasticity of the human genome
European Advanced Postgraduate Course in Classical and Molecular Cytogenetics
Lecture: Molecular cytogenetics: production and use of molecular probes.
Nimes, France

October 2, 2006

Invited Speaker: Human genome Plasticity; 48th Annual meeting Societa' Italiana di Cancerologia
Bari, October 1-4, 2006

September 28, 2006

Invited Speaker: What made us Hominidae; VIII Annual FISV meeting, Riva del Garda, September 28-
October 1, 2006
Bertinoro, September 19-22

September 27, 2006

Invited Speaker: in Chromosomal Evolution "Molecular Cytogenetics and DNA microarray" course
Bertinoro, September 23-28, 2006

September 22, 2006

Invited Speaker: Human Genome Plasticity, in "Genome Evolution in Eukaryotes" course.
Bertinoro, September 19-22, 2006

April 7, 2006

Invited as Chairmam of a session of the "2nd International Meeting on Cryptic Chromosomal
Rearrangements in Mental Retardation and Autism"
Troina, Italy

February 10, 2006

Invited Speaker:
Human neocentromeres
Meeting in "New concepts in cytogenetics"
Porto, Portugal

November 30, 2005

Invited Speaker:
Evolutionary centromere repositioning
Stazione Zoologica A. Dohrn
Napoli, Italy

November 3, 2005

Invited Speaker:

Genetic Variation and repeat sequences in the human genome
University of Southern California, Center of Excellence in Genomic Sciences
Los Angeles, USA

October 4, 2005

Lezione magistrale: Il "nostro" genoma
Convegno Nazionale Gruppo Italiano di Citometria (GIC)
Porto San Giorgio

October 2, 2005

Invited Speaker: Centromere repositioning
EMBO Workshop, Chromosome structural elements: from dna sequence to function
Monte Porzio Catone, Roma

July 7, 2005

Invited Speaker: Plasticita' del genoma
Corso: Le malattie genetiche come malattie sociali
Chieti, July 7-8 2005

June 29, 2005

Invited Speaker: Plasticita' del genoma e tumori
Caserta, Universita' di Napoli Federico II

June 22, 2005

Invited Speaker: Plasticita' del genoma e tumori
Corso AGI-SIMA Cortona 20-22 Giugno 2005 su
Il cancro come malattia da instabilita' del genoma

June 10, 2005

Invited Speaker: Centromere repositioning
Seventh International Conference on Drosophila Heterochromatin
Gubbio, June 6-12, 2005

April 14, 2005

Invited Speaker: Plasticita' del genoma
Scuola di Dottorato in Medicina dello Sviluppo e Scienze della Programmazione, Universita' di Padova

February 18, 2005

Invited Speaker: The impact of genome plasticity on tumors
International meeting on "Fragilome: chromosomal instability, fragile sites, and cancer
Heidelberg, Germany

February 12-15, 2005

Invited Speaker: Resources of molecular cytogenetics
Pre-natal and post-natal clinical cytogenetics Course
Beirut, Lebanon

December 13, 2004

Invited Speaker: La tecnica FISH
GIC Workshop on Innovazioni e Applicazioni delle Metodologie di Citologia Analitica
Napoli

November 12, 2004

Invited Speaker: Plasticita' del genoma e tumori
Citogenetica della Malattie Ematologiche (Workshop)
Candiolo (Torino)

October 29, 2004

Invited Speaker: Centromere repositioning
National Cancer Institute

Frederick, USA

September 10, 2004

Invited Seminar: Istituto Oncologico Europeo, Milano
Evolutionary plasticity of the human genome

April 2, 2004

Invited Speaker: Genome Plasticity
Scuola di Specializzazione in Genetica Medica
Verona, Italy

March 22, 2004

Invited Speaker: Plasticita' del genoma umano
Corso su: Aggiornamenti di diagnostica citogenetico-molecolare delle emopatie maligne
Bari, Italy

March 5, 2004

As Faculty member: Plasticity of the human genome
European Advanced Postgraduate Course in Classical and Molecular Cytogenetics
Nimes, France
Molecular cytogenetics: production and use of molecular probes.

November 24, 2003

Telethon Convention
Invited Speaker: BAC/PAC probes
Riva del Garda

November 14, 2003

Invited Speaker:
Citogenetica della Malattie Ematologiche (Workshop)
Candiolo (Torino)
Plasticita' del genoma e tumori

November 5, 2003

Invited Speaker: Human Genome plasticity and cancer
American Society Of Human Genetics
Los Angeles, CA, USA

November 3, 2003

Invited seminar: Human genome plasticity
Children's Hospital Oakland Research Institute
Oakland, CA, USA

October 9, 2003

Invited Speaker: Evoluzione recente del genoma umano
Biannual mMeeting of the "Gruppo Italiano di Citometria"
Spoleto, Italy

September 7, 2003

Invited Speaker: Centromere plasticity in evolution
Fourth European Cytogenetics Conference
Bologna, Italy

May 31, 2003

Invited Speaker: Neocentromeres in 15q24-26 map to duplicons which flanked an ancestral centromere in 15q25
Sixth International Conference in Drosophila heterochromatin
Ravello, Italy

March 28, 2003

Invited seminar: Human Genome Plasticity
Dipartimento di Biologia Evoluzionistica Sperimentale
University of Bologna

January 16, 2003

Invited seminar: Human Genome Plasticity
Lund University Hospital, Lund, Sweden
(prof. Felix Mitelman)

November 14, 2002

Invited Speaker: Genome evolution in primates
International Centre for Genetic Engineering and Biotechnology
Theoretical Course "Molecular Aspects of Chromosomal Instability"
ICGEB, AREA Science Park, Trieste, Italy
November 14-15 2002