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Education:

<u>Date</u>	<u>Degree</u>	<u>Institute</u>
1995	Bachelor of Sciences	University of Rome “La Sapienza”, Italy
November, 2001	Ph.D. in Medical Embryology	Faculty of Medicine, University of Rome “Tor Vergata”, Italy

Professional Exeperience:

October 2006- to date Faculty Researcher at the Department of Public Health and Cell Biology, University of Rome “Tor Vergata”.

March 2006 Assistant Professor, at the Department of Public Health and Cell Biology, University of Rome “Tor Vergata”, under the MIUR program “*Rientro dei Cervelli*”

2001-2005 Post-doctoral Research Fellow, Memorial Sloan-Kettering Cancer Center Institute, New York, USA. Supervisor: Prof. Maria Jasin, Project: Interhomologue recombination during meiosis

2000-2001 Post-doctoral Research Fellow, Columbia University in the City of New York, USA. Supervisor: Prof. Lili Yamasaki. Project: Study of the impaired spermatogenesis in *E2FI*^{-/-} mice.

1996-2000 Ph.D. student, Department of Human Anatomy, Faculty of Medicine, University of Rome “Tor Vergata”, Italy. Supervisor: Prof. Raffaele Geremia. Ph.D. thesis: Study of Cell Cycle progression During Mouse Meiosis.

1995-1996 Research Fellow, Department of Physiology University of Rome “Tor Vergata”, Italy. Advisor: Dr. Stefano Rufini Project: Study of the effect of MTXI, MTXII venom myotoxin on muscle cells.

1993-1995 Undergraduate student, at the Italian National Agency for New Technologies, Energy and the Environment (ENEA). Supervisor: Dr. Anna Giovanetti. Project: Analysis of induced damage in lung cells following ozone inhalation: morphological and ultrastructural characterization in rat.

Awards:

August 2003/2005: American-Italian Cancer Foundation 2003-2004.

Project: Interomologue recombination during meiosis

Supervisor: Prof. Maria Jasin

Memorial Sloan-Kettering Cancer Center, New York, NY, 10021,USA

April 2003/2005: The Lalor Foundation, USA.

Project: Interomologue recombination during meiosis

Supervisor: Prof. Maria Jasin

Memorial Sloan-Kettering Cancer Center, New York, NY, 10021,USA

Jul.-Sept. 1999: National Science Council (CNR) Italy.

Project: Study of Ca^{++} release at fertilization in *Xenopus* eggs.

Supervisor: Prof. Richard Nuccitelli

University of California, Davis, USA.

Fundings

2007-2010 Italian Association for Cancer Research (**AIRC**) grant, for research support.

2006: “**Rientro dei Cervelli**” grant from the Italian Ministry of Education (Ministero Italiano della Università e della Ricerca, MIUR). Grant of Euro 20,000 for research support.

Attended Courses:

Practical aspect of gene transfer VIII ed. Torino 26-29 november 2007

10th Annual Mouse Developmental Genetic Course

Albert Einstein, College of Medicine, Bronx, New York, NY

December 11-17, 2004

Seminar presentations as invited speaker

VIII Federazione Italiana Scienze della Vita (FISV) national Congress. Riva del Garda, Italy, 28 September-October 1st, 2006

National Italian Council (CNR) seminar events, 2006, Naples, Italy, January 16th, 2006

7th EMBO meiosis meeting, Spain, 13-18 September 2005

Publications (in chronological order)

1. **BARCHI M.**, MAGLIOZZI R, GEREMIA R, BIANCHI E (2009). Separation of mouse meiotic germ cells by centrifugal elutriation. In: *Methods in METHODS MOL. BIOL. In the press*. ISSN: E109396 (see attached editor letter and first page paper proof)
2. PARONETTO MP, MESSINA V, BIANCHI E, **BARCHI M.**, GILLIAN V, MORETTI C, PALOMBI F, STEFANINI M, GEREMIA R, RICHARD S, SETTE C (2009). Sam 68 regulates translation of target mRNA during mouse spermatogenesis. *THE JOURNAL OF CELL BIOLOGY*, vol. 185(2); p. 234-239, ISSN: 0021-9525
3. **BARCHI M.**, ROIG I, DI GIACOMO M, DE ROOIJ D.G, KEENEY S, AND JASIN M (2008). ATM promotes the obligate XY crossover and both crossover control and chromosome axis integrity on autosomes. *PLOS GENETICS*, vol. 4(5); p. e1000076, ISSN: 1553-7404
4. PERERA D, TILSON V, HOPWOOD JA, **BARCHI M.**, BOOT-HANDFORD RP AND TAYLOR SS (2007). Bub1 maintains centromeric cohesion by activation of the spindle checkpoint. *DEVELOPMENTAL CELL*, vol. 13; p. 566-579, ISSN: 1534-5807
5. LIEBE B, PETUKHOVA G, **BARCHI M.**, BELLANI M, BRASELMANN H, NAKANO T, PANDITA TK, JASIN M, FORNACE A, MEISTRICH ML, BAARENDS WM, SCHIMENTI J, DE LANGE T, KEENEY S, CAMERINI-OTERO RD, SCHERTHAN H (2006). Mutations that affect meiosis in male mice influence the dynamics of the mid-preleptotene and bouquet stages. *EXPERIMENTAL CELL RESEARCH*, vol. 15; p. 3768-3781, ISSN: 0014-4827
6. **BARCHI M.**, MAHADEVAIAH S, DI GIACOMO M, BAUDAT F, DE ROOIJ DG, BURGOYNE PS, JASIN M, KEENEY S (2005). Surveillance of different recombination defects in mouse spermatocytes yields distinct responses despite elimination at an identical developmental stage. *MOLECULAR AND CELLULAR BIOLOGY*, vol. 25; p. 7203-7215, ISSN: 0270-7306
7. DI GIACOMO M, **BARCHI M.**, BAUDAT F, EDELMANN W, KEENEY S, JASIN M (2005). Distinct DNA-damage-dependent and -independent responses drive the loss of oocytes in recombination-defective mouse mutants. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, vol. 18; p. 737-742, ISSN: 0027-8424
8. COUEDEL C, MILLS KD, **BARCHI M.**, SHEN L, OLSHEN A, JOHNSON RD, NUSSENZWEIG A, ESSERS J, KANAAR R, LI GC, ALT FW, JASIN M (2004). Collaboration of homologous recombination and nonhomologous end-joining factors for the survival and integrity of mice and cells. *GENES & DEVELOPMENT*, vol. 18; p. 1293-12304, ISSN: 0890-936
9. OISHI K, **BARCHI M.**, AU AC, GELB BD, DIAZ GA (2004). Male infertility due to germ cell apoptosis in mice lacking the thiamin carrier, *Tht1*. A new insight into the critical role of thiamin in spermatogenesis. *DEVELOPMENTAL BIOLOGY*, vol. 266; p. 299-309, ISSN: 0012-1606

