

PUBBLICAZIONI

1. Cavallo F, Graziani G, Antinozzi C, Feldman DR, Houldsworth J, Bosl GJ, Chaganti RS, Moynahan ME, Jasin M, **Barchi M**. (2012). “Reduced proficiency in homologous recombination underlies the high sensitivity of embryonal carcinoma testicular germ cell tumors to Cisplatin and poly (adp-ribose) polymerase inhibition”. *PLoS One*. 7(12):e51563.
2. Illert AL, Kawaguchi H, Antinozzi C, Bassermann F, Quintanilla-Martinez L, von Klitzing C, Hiwatari M, Peschel C, de Rooij DG, Morris SW, **Barchi M**, Duyster J. (2012) “Targeted inactivation of nuclear interaction partner of ALK disrupts meiotic prophase”. *Development*. Jul;139(14):2523-34.
3. La Volpe A, **Barchi M**. (2012) “Meiotic double strand breaks repair in sexually reproducing eukaryotes: we are not all equal”. *Exp Cell Res*. Jul 15;318(12):1333-9.
4. Paronetto MP, Messina V, **Barchi M**, Geremia R, Richard S, Sette C. (2011) Sam68 mark transcriptionally active stages of spermatogenesis, and modulates alternative splicing in male germ cells. *Nucleic Acid Research*. Feb 25.

5. Nakanishi K, Cavallo F, Perrouault L, Giovannangeli C, Moynahan ME, **Barchi M**, Brunet E, and Jasin M. (2011) Homology-directed Fanconi anemia pathway crosslink repair is dependent on DNA replication. *Nature Struct. Mol. Biol.*, 18(4):500-3.
6. Kauppi L, **Barchi M**, Baudat F, Romanienko PJ, Keeney S, Jasin M. (2011) Distinct Properties of the XY Pseudoautosomal Region Crucial for Male Meiosis. *Science* 18 February 2011: 916-920.
7. Muciaccia B, Sette C, Paronetto MP, **Barchi M**, Pensini S, et al. (2010) Expression of a truncated form of KIT tyrosine kinase in human spermatozoa correlates with sperm DNA integrity. *Hum Reprod* 25: 2188-2202.
8. Paronetto MP, Messina V, Bianchi E, **Barchi M**, Vogel G, et al. (2009) Sam68 regulates translation of target mRNAs in male germ cells, necessary for mouse spermatogenesis. *J Cell Biol* 185: 235-249.
9. **Barchi M**, Roig I, Di Giacomo M, de Rooij DG, Keeney S, et al. (2008) ATM promotes the obligate XY crossover and both crossover control and chromosome axis integrity on autosomes. *PLoS Genet* 4: e1000076.

10. Perera D, Tilston V, Hopwood JA, **Barchi M**, Boot-Handford RP, et al. (2007) Bub1 maintains centromeric cohesion by activation of the spindle checkpoint. *Dev Cell* 13: 566-579.
11. Liebe B, Petukhova G, **Barchi M**, Bellani M, Braselmann H, et al. (2006) Mutations that affect meiosis in male mice influence the dynamics of the mid-preleptotene and bouquet stages. *Exp Cell Res* 312: 3768-3781.
12. **Barchi M**, Mahadevaiah S, Di Giacomo M, Baudat F, de Rooij DG, et al. (2005) Surveillance of different recombination defects in mouse spermatocytes yields distinct responses despite elimination at an identical developmental stage. *Mol Cell Biol* 25: 7203-7215.
13. Di Giacomo M, **Barchi M**, Baudat F, Edelmann W, Keeney S, et al. (2005) Distinct DNA-damage-dependent and -independent responses drive the loss of oocytes in recombination-defective mouse mutants. *Proc Natl Acad Sci U S A* 102: 737-742.
14. Couedel C, Mills KD, **Barchi M**, Shen L, Olshen A, et al. (2004) Collaboration of homologous recombination and nonhomologous end-

joining factors for the survival and integrity of mice and cells. *Genes Dev* 18: 1293-1304.

15. 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. *Dev Biol* 266: 299-309.
16. Guardavaccaro D, Kudo Y, Boulaire J, **Barchi M**, Busino L, et al. (2003) Control of meiotic and mitotic progression by the F box protein beta-Trcp1 in vivo. *Dev Cell* 4: 799-812.
17. Chieffi P, **Barchi M**, Di Agostino S, Rossi P, Tramontano D, et al. (2003) Prolin-rich tyrosine kinase 2 (PYK2) expression and localization in mouse testis. *Mol Reprod Dev* 65: 330-335.
18. Sette C, Paronetto MP, **Barchi M**, Bevilacqua A, Geremia R, et al. (2002) Tr-kit-induced resumption of the cell cycle in mouse eggs requires activation of a Src-like kinase. *EMBO J* 21: 5386-5395.

19. Chieffi P, Battista S, **Barchi M**, Di Agostino S, Pierantoni GM, et al.

(2002) HMGA1 and HMGA2 protein expression in mouse

spermatogenesis. *Oncogene* 21: 3644-3650.

20. Sette C, **Barchi M**, Bianchini A, Conti M, Rossi P, et al. (1999)

Activation of the mitogen-activated protein kinase ERK1 during meiotic progression of mouse pachytene spermatocytes. *J Biol Chem* 274:

33571-33579.