

PUBLICATIONS, GIORDANO LIBERI

1. Rawal CC, Zardoni L, Di Terlizzi M, Galati E, Brambati A, Lazzaro F, **Liberi G***, and Pellicioli A* (2020). Senataxin ortholog Sen1 limits DNA:RNA hybrid accumulation at DNA double-strand breaks to control end resection and repair fidelity. **Cell rep** 31:107603. **co-corresponding authors*
2. Brambati A, Zardoni L, Nardini E, Pellicioli A, and **Liberi G** (2020). The dark side of RNA:DNA hybrids. **Mutat Res** 784:108300.
3. Zardoni L, Nardini E, and **Liberi G** (2020). 2D Gel electrophoresis to detect DNA replication and recombination intermediates in budding yeast. **Methods Mol Biol** 2119: 43-59. (Awardee with Cover)
4. Marini F, Rawal CC, **Liberi G**, and Pellicioli A (2019). Regulation of DNA double strand break processing: focus on barriers. **Front Mol Biosci** 6:55.
5. Theil AF, Botta E, Raams A, Smith DEC, Mendes MI, Caligiuri G, Giachetti S, Bione S, Carriero R, **Liberi G**, Zardoni L, Swagemakers SMA, Salomons GS, Sarasin A, Lehmann A, van der Spek PJ, Ogi T, Hoeijmakers JHJ, Vermeulen W, and Orioli D (2019). Bi-allelic TARS Mutations Are Associated with Brittle Hair Phenotype. **Am J Hum Genet** 105:434-440.
6. Brambati A, Zardoni L, Achar YJ, Piccini D, Galanti L, Colosio A, Foiani M, and **Liberi G** (2018). Dormant origins and fork protection mechanisms rescue sister forks arrested by transcription. **Nucleic Acids Res** 46:1227-1239. (Awardee with Cover)
7. Brambati A, Colosio A, Zardoni L, Galanti L, and **Liberi G** (2015). Replication and transcription on a collision course: eukaryotic regulation mechanisms and implications for DNA stability. **Front Genet** 6:166.
8. Alzu A, Bermejo R, Begnis M, Lucca C, Piccini D, Carotenuto W, Saponaro M, Brambati A, Cocito A, Foiani M, and **Liberi G** (2012). Senataxin associates with replication forks to protect fork integrity across RNA polymerase II-transcribed genes. **Cell** 151: 835-846.
9. **Liberi G***, and Foiani* M (2010). The double life of Holliday junctions. **Cell Res** 20: 611-613. **co-corresponding authors*
10. Carotenuto W, and **Liberi G** (2010). Mitotic inter-homolog junctions accumulate at damaged DNA replication forks in recQ mutants. **DNA repair** 9: 661-669.

11. Saponaro M, Callahan D, Zheng X, Krejci L, Haber JE, Klein HL, and **Liberi G** (2010). Cdk1 targets Srs2 to complete synthesis-dependent strand annealing and to promote recombinational repair. **PLoS Genet** 6: e1000858.
12. Kerrest A, Anand RP, Sundararajan R, Bermejo R, **Liberi G**, Dujon B, Freudenreich CH, and Richard G-F (2009). SRS2 and SGS1 prevent chromosomal breaks and stabilize triplet repeats by restraining recombination. **Nat Struct Mol Biol** 16: 159-167.
13. Tavecchio M, Simone M, Erba E, Chiolo I, **Liberi G**, Foiani M, D'Incalci M, and Damia G (2008). Role of homologous recombination in trabectedin-induced DNA damage. **Eur J Cancer** 44: 609-611.
14. Cogliati M, Esposito MC, **Liberi G**, Tortorano AM, and Viviani MA (2007). *Cryptococcus neoformans* typing by PCR fingerprinting using (GACA)₄ primer: a new ligh on the basis of *Cryptococcus neoformans* genome project data. **J Clin Microbiol** 45: 3427-3430.
15. Theis JF, Dershowitz A, Irene C, Maciariello C, Tobin ML, **Liberi G**, Tabrizifard S, Korus M, Fabiani L, and Newlon CS (2007). Identification of Mutations That Decrease The Stability of a Fragment of *S. cerevisiae* Chromosome III Lacking Efficient Replicators. **Genetics** 177:1445-1458.
16. Chiolo I, Saponaro M, Baryshnikova A, Kim JH, Seo YS, and **Liberi G** (2007). The human F-box DNA helicase FBH1 faces *S. cerevisiae* Srs2 and post-replication repair pathway roles. **Mol Cell Biol** 27: 7439-7450. (Awardeer with Cover)
17. Branzei D, Sollier J, **Liberi G**, Zhao X, Maeda D, Enomoto T, Seki M, Ohta K, and Foiani M (2006). Ubc9- and Mms21-mediated sumoylation counteracts recombinogenic events at damaged replication forks. **Cell** 127: 509-522.
18. **Liberi G**, Cotta-Ramusino C, Lopes M, Sogo J, Conti C, Bensimon A, and Foiani M (2006). Methods to study replication fork collapse in budding yeast. **Methods Enzymol** 409: 442-462.
19. Chiolo I, Carotenuto W, Maffioletti G, Petrini JHJ, Foiani M, and **Liberi G** (2005). Srs2 and Sgs1 DNA helicases associate with Mre11 in different sub-complexes following checkpoint activation and CDK1-mediated Srs2 phosphorylation. **Mol Cell Biol** 25: 5738-5751.

- 20. Liberi G***, Maffioletti G, Lucca C, Chiolo I, Baryshnikova A, Cotta-Ramusino C, Lopes M, Pelliccioli A, Haber JE, and Foiani M (2005). Rad51-dependent DNA structures accumulate at damaged replication forks in *sgs1* mutants defective in the yeast ortholog of BLM RecQ helicase. **Genes Dev** 19: 339-350.
- * corresponding author*
- 21.** Ira G, Pelliccioli A, Balijja A, Wang X, Fiorani S, Carotenuto W, **Liberi G**, Bressan D, Wan L, Hollingsworth NM, Haber JE, and Foiani M (2004). DNA end resection, homologous recombination and DNA damage checkpoint activation require CDK1. **Nature** 431: 1011-1017.
- 22. Liberi G**, and Foiani M (2004). Initiation of DNA Replication: a New Hint from Archaea. **Cell** 116: 3-4.
- 23.** Lucca C, Vanoli F, Cotta-Ramusino C, Pelliccioli A, **Liberi G**, Haber JE, and Foiani M (2004). Checkpoint-mediated control of replisome-fork association and signalling in response to replication pausing. **Oncogene** 23: 1206-1213.
- 24.** Lopes M, Cotta-Ramusino C, **Liberi G**, and Foiani M (2003). Branch migrating sister chromatid junctions form at replication origins through Rad51/Rad52-independent mechanisms. **Mol Cell** 12: 1499-1510.
- 25.** Ira G, Malkova A, **Liberi G**, Foiani M, and Haber JE (2003). Srs2 and Sgs1-Top3 suppress crossovers during double-strand break repair in yeast. **Cell** 115: 401-411.
- 26.** Muzi-Falconi M, **Liberi G**, Lucca C, and Foiani M (2003). Mechanisms controlling the integrity of replicating chromosomes in budding yeast. **Cell Cycle** 2: 564-567.
- 27.** Muzi-Falconi M, Giannattasio G, **Liberi G**, Pelliccioli A, Plevani P, and Foiani M (2003). Budding yeast DNA damage checkpoint: a signal transduction-mediated surveillance system. **Handbook of Cell Signaling** 3: 192-202.
- 28.** Vaze MB, Pelliccioli A, Lee SE, Ira G, **Liberi G**, Arbel-Eden A, Foiani M, and Haber JE (2002). Recovery from checkpoint-mediated arrest after repair of a double strand break requires Srs2 helicase. **Mol Cell** 10: 373-385.
- 29.** Giannattasio G, Sommariva E, Vercillo R, Lippi- Bomcampi F, **Liberi G**, Foiani M, Plevani P, and Muzi-Falconi M (2002). A dominant negative MEC3 mutant uncovers new functions for the Rad17 complex and Tel1. **Proc Natl Acad Sci USA** 99: 12997-13002.

30. Lopes M, Cotta-Ramusino C, Pelliccioli A, **Liberi G**, Plevani P, Muzi-Falconi M, Newlon CS, and Foiani M (2001). The DNA replication checkpoint response stabilizes stalled replication forks. **Nature** 412: 557-561.
31. Cogliati M, Allaria M, **Liberi G**, Tortorano AM, and Viviani MA (2000). Sequence analysis and ploidy determination of *Cryptococcus neoformans* var. *neoformans*. **J Mycol Med** 10: 171-176.
32. Damia G, Silvestri S, Carrassa L, Filiberti L, Faircloth T, **Liberi G**, Foiani M, and D'Incalci M (2000). Unique pattern of ET-743 activity in different cellular system with defined deficiencies in DNA repair pathways. **Int J Cancer** 92: 583-588.
33. **Liberi G***, Chiolo I, Pelliccioli A, Lopes M, Muzi-Falconi M, Plevani P, and Foiani M (2000). Srs2 DNA helicase is involved in checkpoint response and its regulation requires a functional Mec1-dependent pathway and Cdk1 activity. **EMBO J** 19: 5027-5038. * *corresponding author*
34. Foiani M, Pelliccioli A, Lopes M, Lucca C, Ferrari M, **Liberi G**, Muzi-Falconi M, and Plevani P (2000). DNA damage checkpoints and DNA replication controls in *Saccharomyces cerevisiae*. **Mutat Res** 21: 286-294.
35. Pelliccioli A, Lucca C, **Liberi G**, Marini F, Lopes M, Plevani P, Romano A, Di Fiore P, and Foiani M (1999). Activation of Rad53 kinase in response to DNA damage and its effect in modulating phosphorylation of the lagging strand DNA polymerase. **EMBO J** 18: 6561-6572.
36. Foiani M, Ferrari M, **Liberi G**, Lopes M, Lucca C, Marini F, Pelliccioli P, Muzi-Falconi M, and Plevani P (1998). S-phase DNA damage checkpoint in budding yeast. **Biol Chem** 379: 1019-1023.
37. Foiani M, **Liberi G**, Piatti S, and Plevani P (1997). *Saccharomyces cerevisiae* as a model to study DNA replication. In Cotterill, S. (ed), "Eukaryotic DNA replication. A practical Approach". Oxford university Press, Oxford, UK, pp, 185-200.
38. Foiani M, **Liberi G**, Lucchini G, and Plevani P (1995). Cell cycle-dependent phosphorylation and dephosphorylation of the yeast DNA polymerase α -primase complex B subunit. **Mol Cell Biol** 15: 883-891.