

**COMPLETE BIBLIOGRAPHY****Publications**

1. Wollscheid H.P., Biancospino M., He F., Magistrati E., Molteni E., Lupia M., Soffientini P., Rottner K., Cavallaro U., Pozzoli U., **Mapelli M.**, Walters K.J., Polo S. (2016) Diverse functions of myosin VI elucidated by an isoform-specific  $\alpha$ -helix domain. **Nat Struct Mol Biol.** 23, 300-308.
2. Carminati M, Cecatiello V, Mapelli M. (2016) Crystallization and X-ray diffraction of LGN in complex with the actin-binding protein afadin. **Acta Crystallogr. F**, 72, 145-51.
3. Gallini S., Carminati M., De Mattia F., Pirovano L., Martini E., Oldani A., Asteriti I.A., Guarguaglini G, **Mapelli M.** (2016) NuMA phosphorylation orchestrates spindle orientation. **Current Biol.**, 26, 458-69.
4. Carminati M., Gallini S., Pirovano L., Alfieri A., Bisi S. and **Mapelli M.** (2016) Concomitant binding of Afadin to LGN and F-actin directs planar spindle orientation. **Nat. Struct. Mol. Biol.**, 23,155-63.
5. Fornasa G, Tsilingiri K, Caprioli F, Botti F, **Mapelli M**, Meller S, Kislat A, Homey B, Di Sabatino A, Sonzogni A, Viale G, Diaferia G, Gori A, Longhi R, Penna G, Rescigno M. Dichotomy of short and long thymic stromal lymphopoietin isoforms in inflammatory disorders of the bowel and skin. (2015) **J. Allergy Clin. Immunol.** 136, 413-422.
6. Andersen D.S., Colombani J., Palmerini V., Chakrabandhu K., Röthlisberger M., Toggweiler J., Basler K., **Mapelli M.**, Hueber A., and Léopold P. (2015) The Drosophila TNF receptor Grindelwald couples loss of cell polarity with neoplastic growth. (2015) **Nature**, 522, 482-6.
7. Bezil C., Asada N., Ishiguro K., Nakaya T., Parsons K., Pendolino V., Neumayer G., **Mapelli M.**, Nakatani Y., Sanada K., and Nguyen M.D. (2014) p600 regulates spindle orientation in apical neural progenitors and contributes to neurogenesis in the developing neocortex, **Biology Open.** 3, 475-85.
8. Migliori V., Muller J., Phalke S., Low D., Bezzi M., Mok W.C., Sahu S.K., Gunaratne J., Capasso P., Bassi B., Cecatiello V., De Marco A., Blackstock W., Kuznetsov V., Amati B., **Mapelli M.**, Guccione E. (2012) Symmetric dimethylation of H3R2 is a newly identified histone mark that supports euchromatin maintenance. **Nat. Struct. Mol. Biol.** 19, 136-144.
9. Culurgioni S., Alfieri A., Pendolino V., Laddomada F. and **Mapelli M.** (2011) Inscuteable and NuMA proteins bind competitively to Leu-Gly-Asn repeat-enriched protein (LGN) during asymmetric cell divisions. **P.N.A.S.**, 108, 20998-1003.
10. Simonetta M., Manzoni R., Mosca R., **Mapelli M.**, Massimiliano L., Vink M., Novak B., Musacchio A. and Ciliberto A. (2009) The influence of catalysis on Mad2 activation dynamics. **PLoS Biology**, 7, 175-188.
11. Lagace D.C., Benavides D.R., Kansy J.W., **Mapelli M.**, Greengard P., Bibb J.A., Eisch A.J. (2008) Cdk5 is essential for adult hippocampal neurogenesis. **P.N.A.S.**, 105, 18567-71.
12. **Mapelli M.**, Massimiliano L., Santaguida S. and Musacchio A. (2007) The Mad2 Conformational Dimer: Structure and Implications for the Spindle Assembly Checkpoint. **Cell** 131, 730-743.
13. Vink M. Simonetta M., Transidico P., Ferrari K., **Mapelli M.**, De Antoni A., Massimiliano L., Ciliberto A., Faretta M., Salmon E.D., Musacchio A. (2006) In vitro FRAP identifies the minimal requirements for Mad2 kinetochore dynamics. **Curr Biol.**16, 755-66.
14. **Mapelli M.**, Filipp F.V., Rancati G., Massimiliano L., Nezi L., Stier G., Hagan R.S., Confalonieri S., Piatti S., Sattler M., Musacchio A. (2006) Determinants of conformational dimerization of Mad2 and its inhibition by p31<sup>comet</sup>. **EMBO J.** 25, 1273-84.
15. Penengo\* L., **Mapelli\* M.**, Murachelli\* A.G., Confalonieri S., Magri L., Musacchio A., Di Fiore P.P., Polo S., Schneider T.R. (2006) Crystal structure of the ubiquitin binding domains of rabex-5 reveals two modes of interaction with ubiquitin. **Cell** 124, 1183-95.
16. Sessa\* F., **Mapelli\* M.**, Ciferri C., Tarricone C., Areces L.B., Schneider T.R., Stukenberg T.P. and Musacchio A. (2005) Mechanism of Aurora-B activation by INCENP and inhibition by Hesperadin. **Mol. Cell** 18, 379-91.
17. **Mapelli M.**, Massimiliano L., Crovace C., Seeliger M.A., Tsai L.H., Meijer L. and Musacchio A. (2005) Mechanism of CDK5/p25 binding by CDK inhibitors. **J. Med. Chem.** 48, 671-679. (107 cit.)
18. **Mapelli\* M.**, Panjikar\* S. and Tucker P. (2005) The crystal structure of the HSV-1 ssDNA binding protein suggests the structural basis for flexible, cooperative single-stranded DNA. **J. Biol. Chem.** 280, 2990-97.

19. De Antoni A., Pearson C.G., Cimini D., Canman J.C., Sala V., Nezi L., **Mapelli M.**, Sironi L., Faretta M., Salmon E.D., Musacchio A. (2005) The Mad1/Mad2 complex as a template for Mad2 activation in the spindle assembly checkpoint. **Curr. Biol.** *15*, 214-25.
20. Lacy E.R., Wang Y., Post J., Nourse A., Webb W., **Mapelli M.**, Musacchio A., Siuzdak G., Kriwacki R.W. (2005) Molecular basis for the specificity of p27 toward cyclin-dependent kinases that regulate cell division. **J Mol Biol.** *349*, 64-73.
21. Ahn J.S., Radhakrishnan M.L., **Mapelli M.**, Choi S., Tidor B., Cuny G.D., Musacchio A., Yeh L.A., Kosik K.S. (2005) Defining Cdk5 ligand chemical space with small molecule inhibitors of tau phosphorylation. **J Mol Biol.** *349*, 764-73.
22. Ahn J.S., Musacchio A., **Mapelli M.**, Ni J., Scinto L., Stein R., Kosik K.S., Yeh L.A. (2004) Development of an assay to screen for inhibitors of tau phosphorylation by cdk5. **J. Biomol. Screen.** *9*, 122-31.
23. Sironi L., **Mapelli M.**, Knapp S., De Antoni A., Jeang K.T. and Musacchio A. (2002). Crystal structure of the tetrameric Mad1-Mad2 core complex: implications of a safety belt binding mechanism for the spindle checkpoint. **EMBO J.** *21*, 2496-2506.
24. **Mapelli M.**, Muehleisen M., van der Zandt H., Persico G. and Tucker P.A. (2000). The 60-residue C-terminal region of the single-stranded DNA binding protein of Herpes Simplex Virus type 1 is required for co-operative DNA binding. **J. Virology** *74*, 8812-22.
25. **Mapelli M.** and Tucker P.A. (1999). Crystallisation and preliminary x-ray studies on the Herpes Simplex Virus 1 single-stranded DNA binding protein. **J. Struct. Biol.** *128*, 219-222.

#### Research monographs

1. Santoro A, Vlachou T, Carminati M, Pelicci PG, **Mapelli M.** (2016) Molecular mechanisms of asymmetric divisions in mammary stem cells. **EMBO Rep.**, *17*, 1700-1720.
2. Culurgioni S., **Mapelli M.** (2013) Going vertical: functional role and working principles of the protein Inscuteable in Asymmetric Cell Divisions. **Cellular and Molecular Life Sciences**, *70*, 4039-46.
3. **Mapelli M.**, Gonzalez C. (2012) On the inscrutable role of Inscuteable: structural bases for the competitive binding of NuMA and Inscuteable to LGN. **Open Biology**, *2*.
4. Migliori V., **Mapelli M.**<sup>§</sup>, Guccione E. (2012) On WD40 proteins: propelling our knowledge of transcriptional control? **Epigenetics**, *7*, 815-822.
5. **Mapelli M.** and Musacchio A. (2007) MAD contorsions: conformational dimerization boosts spindle checkpoint signaling. **Curr. Opin. Struct. Biol.** *17*, 716-725.
6. **Mapelli M.** and Musacchio A. (2003) The structural perspective on CDK5. **Neurosignals** *12*, 164-172.