

Full Publications list

1. Petsalaki E and **Zachos G**. DNA damage response proteins regulating mitotic cell division: double agents preserving genome stability. *The FEBS Journal* 287: 1700-1721, 2020.
2. Petsalaki E and **Zachos G**. Building bridges between chromosomes: novel insights into the abscission checkpoint. *Cellular and Molecular Life Sciences* 76: 4291-4307, 2019.
3. Petsalaki E, Dandoulaki M and **Zachos G**. Chmp4c is required for stable kinetochore-microtubule attachments. *Chromosoma* 127: 461-473, 2018.
4. Dandoulaki M, Petsalaki E, Sumpton D, Zanivan S and **Zachos G**. Src activation by Chk1 promotes actin patch formation and prevents chromatin bridge breakage in cytokinesis. *Journal of Cell Biology* 217: 3071-3089, 2018.
5. Petsalaki E and **Zachos G**. Novel ESCRT functions at kinetochores. *Aging (Albany NY)* 10: 299-300, 2018.
6. Petsalaki E and **Zachos G**. CHMP4C: A novel regulator of the mitotic spindle checkpoint. *Molecular & Cellular Oncology* 5: e1445944, 2018.
7. Petsalaki E, Dandoulaki M and **Zachos G**. The ESCRT protein Chmp4c regulates mitotic spindle checkpoint signaling. *Journal of Cell Biology* 217: 861-876, 2018.
8. **Zachos G**. TIPs for shaping Aurora B activity. *Nature Chemical Biology* 12: 204-205, 2016.
9. Petsalaki E and **Zachos G**. Clks 1, 2 and 4 prevent chromatin breakage by regulating the Aurora B-dependent abscission checkpoint. *Nature Communications* 7: 11451, 2016. doi 10.1038/10.1038/ncomms11451.
10. **Zachos G**. Regulating cytokinesis. *In: Encyclopedia of Cell Biology*, Bradshaw R and Stahl P (eds), Waltham, MA: Academic Press (Elsevier, UK), Vol 3: pp. 494-503, 2016.
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12. Petsalaki E and **Zachos G**. Chk2 prevents mitotic exit when the majority of kinetochores are unattached. *Journal of Cell Biology* 205: 339-356, 2014.
13. Petsalaki E and **Zachos G**. Chk1 and Mps1 jointly regulate correction of merotelic kinetochore attachments. *Journal of Cell Science* 126: 1235-1246, 2013.
14. Petsalaki E, Akoumianaki T, Black EJ, Gillespie DA and **Zachos G**. Phosphorylation at serine 331 is required for Aurora B activation. *Journal of Cell Biology* 195: 449-466, 2011.
15. Rainey MD, Black EJ, **Zachos G** and Gillespie DAF. Chk2 is required for optimal mitotic delay in response to irradiation-induced DNA damage incurred specifically in G2 phase. *Oncogene* 27: 896-906, 2008.
16. **Zachos G** and Gillespie DAF. Exercising restraints: Role of Chk1 in regulating the onset and progression of unperturbed mitosis in vertebrate cells. *Cell Cycle* 6: 810-813, 2007.

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18. **Zachos G**, Black EJ, Walker M, Scott M, Vagnarelli P, Earnshaw WC and Gillespie DA. Chk1 is required for spindle checkpoint function. *Developmental Cell* 12: 247-260, 2007.
19. Robinson H, Jones R, Walker M, **Zachos G**, Brown R, Cassidy J and Gillespie DAF. Chk1-dependent slowing of S-phase progression protects DT40 B-lymphoma cells against killing by the nucleoside analogue 5-Fluoruracil. *Oncogene* 25: 5359-5369, 2006.
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21. Rainey MD, **Zachos G** and Gillespie DAF. Analysing the DNA damage and replication checkpoints in DT40 cells. In: *Reviews and Protocols in DT40 Research*, Buerstedde J-M and Takeda S (eds). Springer, Netherlands, pp 107-117, 2006. *Subcellular Biochemistry* 40: 107-117, 2006.
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26. **Zachos G**, Koffa M, Preston CM, Clements JB and Conner J. Herpes Simplex Virus type 1 blocks the apoptotic host cell defence mechanisms that target Bcl-2 and manipulates activation of the p38 Mitogen Activated Protein Kinase to improve viral replication. *Journal of Virology* 75: 2710-2728, 2001.
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