

## Recent publications

### Peer-reviewed scientific articles

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1. **Tollis, S.** <sup>†,\*</sup>, Singh, J.\*., Thattikota, Y., Palou, R., Ghazal, G., Coulombe-Huntington, J., Tang, X., Moore, S., Blake, D., Bonneil, E., Royer, C.A., Thibault, P., and Tyers, M.<sup>†</sup>, Nsr1, a nitrogen source-regulated microprotein, confers an alternative mechanism of G1/S transcriptional activation in budding yeast. *In press, PLoS Biology.* (\*): equivalent contributions. (†): co-corresponding authors. **2021**
2. Black, L.\*., **Tollis, S.**\*<sup>†</sup>, Fu, G., Fiche, J.-B., Dorsey, S., Cheng, J., Ghazal, G., Notley, S., Crevier, B., Bigness, J., Nollmann, M., Tyers, M. <sup>†</sup>, and Royer, C.A. <sup>†</sup>, G1/S transcription factors assemble in increasing numbers of discrete clusters through G1 phase. *J. Cell Biol.* **219** (9): e202003041. (\*): equivalent contributions. (†): co-corresponding authors. **2020**
3. Jacques, S., van der Sloot, A.M., Huard, C., Coulombe-Huntington, J., Tsao, S., **Tollis, S.**, Bertomeu, T., Culp, E.J., Pallant, D., Cook, M., Bonneil, E., Thibault, P., Wright, G.D., and Tyers, M., Imipridones cause cellular toxicity in human cells and bacteria by ectopic activation of the ClpP protease. *Genetics* **214** (4): 1103-1120. **2020**
4. Dorsey, S.\*., **Tollis, S.**\*, Cheng, J., Black, L., Notley, S., Tyers, M., and Royer, C.A., G1/S Transcription Factor Abundance Reveals Growth-Dependent Determinants of Cell Cycle Commitment in Yeast. *Cell Systems* **6**: 1-16. (\*): equivalent contributions. **2018**
5. Thattikota, Y., **Tollis, S.**, Palou, R., Vinet, J., Tyers, M., and D'Amours, D., Cdc48/VCP promotes chromosome morphogenesis by releasing condensin from self-entrapment in chromatin. *Mol. Cell* **69**: 1-13. **2018**
6. Laporte, D., Courtout, F., **Tollis, S.**, and Sagot, I. (2016) Quiescent *Saccharomyces cerevisiae* forms telomere hyperclusters at the nuclear membrane vicinity through a multifaceted mechanism involving Esc1, the Sir complex, and chromatin condensation. *Mol. Biol. Cell* **27** (12): 1875-1884. **2016**
7. **Tollis, S.**, A Jump Distance-based Bayesian analysis method to unveil fine single molecule transport features. <http://arxiv.org/abs/1506.01112>. **2015**
8. Jose, M., **Tollis, S.**, Nair, D., Mitteau, R., Velours, C., Massoni-Laporte, A., Sibarita, J.B., and McCusker, D., A quantitative imaging-based screen reveals the exocyst as a network hub connecting endo- and exocytosis. *Mol. Biol. Cell* **26** (13): 2519-2534, **2015**
9. Jose, M.\*., **Tollis, S.**\*, Nair, D., Sibarita, J.B., and McCusker, D., Robust polarity establishment occurs via an endocytosis-based cortical corralling mechanism. *J. Cell Biol.* **200**(4), 407-418. (\*): equivalent contributions. **2013**
10. **Tollis, S.**, Gopaldass, N., Soldati, T., and Endres, R.G., How one cell eats another: principles of phagocytosis. Chapter of the book “Systems microbiology: current topics and applications” by B. Robertson and B. Wren, Caister Academic Press 2012 (ISBN-13: 978-1-908230-02-7). **2012**
11. Dart, A.E., **Tollis, S.**, Bright, M.D., Frankel, G.M., and Endres, R.G., The motor protein Myosin 1G functions in FcγR-mediated phagocytosis. *J. Cell Sci.* **125**, 6020-6029. **2012**
12. Aquino, G., Clausznitzer, D., **Tollis, S.**, and Endres, R.G., Optimal receptor-cluster size determined by intrinsic and extrinsic noise. *Phys. Rev. E* **83**: 021914. **2011**
13. **Tollis, S.**, Dart, A.E., Tzircotis, G., and Endres, R.G., The zipper mechanism in phagocytosis: energetic requirements and variability in phagocytic cup shape. *BMC Sys. Biol.* **4**: 149. **2010**