

Publications

Soans KG, Ramos AP, Sidhaye J, Krishna A, Solomatina A, Hoffmann KB, Schlüßler R, Guck J, Sbalzarini IF, Modes CD[#], Norden C[#] (2022) Collective cell migration during optic cup formation features changing cell-matrix interactions linked to matrix topology. *Curr Biol* 32(22), 4817-4831.e9.

Solomatina A, Cezanne A, Kalaidzidis Y, Zerial M, Sbalzarini IF[#] (2022) Design centering enables robustness screening of pattern formation models. *Bioinformatics* 38(Suppl_2), ii134-ii140.

Solomatina A, Kalaidzidis Y, Cezanne A, Soans K, Norden C, Zerial M, Sbalzarini IF (2021) Particle-Based Segmentation Of Extended Objects On Curved Biological Membranes. In: 2021 IEEE 18th International Symposium on Biomedical Imaging (ISBI) Nice, 04/13/2021-04/16/2021, pp. 1150-1154.IEEE.

Cezanne A, Lauer J, Solomatina A, Sbalzarini IF, Zerial M[#] (2020) A non-linear system patterns Rab5 GTPase on the membrane. *eLife* 9, e54434.

Kajtez J^{*}, Solomatina A^{*}, Novak M^{*}, Polak B, Vukušić K, Rüdiger J, Cojoc G, Milas A, Šumanovac Šestak I, Risteski P, Tavano F, Klemm AH, Roscioli E, Welburn J, Cimini D, Glunčić M, Pavin N, Tolić IM (2016) Overlap microtubules link sister k-fibres and balance the forces on bi-oriented kinetochores. *Nat Commun* 7, 10298.

*equal contribution #corresponding author