

Publications (2012 – 2022)

- 2012** Leisch N, Verheul J, Heindl NR, Gruber-Vodicka HR, **Pende N**, den Blaauwen T and Bulgheresi S. Growth in width and FtsZ ring longitudinal positioning in a gammaproteobacterial symbiont. *Current Biology* 22(19):R831-2. doi:10.1016/j.cub.2012.08.033
- 2014** **Pende N***, Leisch N*, Gruber-Vodicka HR, Heindl NR, Ott JA, den Blaauwen T and Bulgheresi S. Size-independent symmetric division in extraordinarily long cells. *Nature Communications* 5:4803. doi: 10.1038/ncomms5803
- 2016** Leisch N, **Pende N**, Weber PM, Gruber-Vodicka HR, Verheul J, Vischer NOE, Abby SS, Geier B, den Blaauwen T and Bulgheresi S. Asynchronous division by non-ring FtsZ in the gammaproteobacterial symbiont of *Robbea hypermnestra*. *Nature Microbiology* 2:16182. doi: 10.1038/nmicrobiol.2016.182
- 2018** **Pende N**, Wang J, Weber PM, Verheul J, Kuru E, Rittmann SKR, Leisch N, VanNieuwenhze MS, Brun YV, den Blaauwen T and Bulgheresi S. Host-Polarized Cell Growth in Animal Symbionts. *Current Biology* 28(7):1039-1051.e5. doi: 10.1016/j.cub.2018.02.028
- 2018** Pende M, Becker K, Wanis M, Saghafi S, Kaur R, Hahn C, **Pende N**, Foroughipour M, Hummel T and Dodt H. High-resolution ultramicroscopy of the developing and adult nervous system in optically cleared *Drosophila melanogaster*. *Nature Communications* 9:4731. doi: 10.1038/s41467-018-07192-z
- 2021** **Pende N***, Sogues A*, Megrian D, Sartori-Rupp A, England P, Palabikyan H, Rittmann SK, Graña M, Wehenkel A, Alzari PM & Gribaldo S. SepF is the FtsZ anchor in archaea, with features of an ancestral cell division system. *Nature Communications* 12, 3214. <https://doi.org/10.1038/s41467-021-23099-8>
- 2022** Witwinowski J, Sartori-Rupp A, Taib N, **Pende N**, Tham TN, Poppleton D, Ghigo JM, Beloin C, Gribaldo S. An ancient divide in outer membrane tethering systems in Bacteria suggests a mechanism for the diderm-to-monoderm transition. *Nature Microbiology*, 7, pages 411–422. doi: 10.1038/s41564-022-01066-3
- 2022** Weber PM, Paredes GF, Viehboeck T, **Pende N**, Volland J-M, Gros O, VanNieuwenhze M, Ott J, and Bulgheresi S. FtsZ-mediated fission of a cuboid bacterial symbiont. *iScience* 25, 103552. doi: 10.1016/j.isci.2021.103552
- 2022** Ithurbide S, Gribaldo S, Albers SV, **Pende N**. Spotlights on FtsZ-based cell division in Archaea. *Trends in Microbiology*, 30(7):665-678. doi: 10.1016/j.tim.2022.01.005.

* These authors contributed equally