1 Matrusiak I. et al. - movie legends

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- 2 Movie 1. papM deletion alters EGFP-ParA fluorescence dynamics the time-lapse analysis. The series
- 3 of time-lapse images (taken at 10 min intervals) showing representative M. smegmatis cells producing
- 4 (A) EGFP-ParA in the control strain ($\Delta parA + pMVp_{nat}egfp-parA$) and (B) the $\Delta papM$ background
- 5 ($\Delta parA \Delta papM + pMV306p_{nat}egfp-parA$). The images show EGFP-ParA fluorescence (green) merged with
- 6 a brightfield image (magenta). The cell division is marked with a yellow arrowhead, the appearance of
- 7 EGFP-ParA at the site of cell division with white arrowheads. Scale bar 5 μm.
- 8 Movie 2. The mCherry-DivIVA redistribution during the cell cycle is affected by parA and papM
- 9 deletion. The series of time-lapse images (taken at 10 min intervals) showing representative
- 10 M. smegmatis cells mCherry-DivIVA in the (A) wild type (WT) control strain, (B) ΔparA and (C) ΔpapM
- 11 strains producing mCherry-DivIVA (apart of the wild type DivIVA). The time of DivIVA appearance in
- the mid-cell is marked with red triangle and the time of new poles separation by black triangle.