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Cover image: Single molecule precise multi-colour fluorescence imaging on living cells, here with filamentous bacteria of Rhodobacter sphaeroides. Brightfield DIC cell bodies shown in magenta, with cells over-expressing the Pseudomonas fluorescens PufA-YFP (yellow). In normal cells, FtsZ forms polar spots and mid-cell ring-like structures or compressed helices according to cell cycle stages. Interestingly, the chemosensory clusters are dynamic and not co-localized with FtsZ, suggesting an intriguing spatial regulation beyond stochastic self-assembly. Image courtesy of Sheng-Wen Chiu, Leake group of Single Molecule Cellular Biophysics, Oxford University, UK.