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Pneumococcal cell biology in a new light

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Stellingen

Behordende bij het proefschrift

Pneumococcal cell biology in a new light

van Katrin Beilharz

te verdedigen op vrijdag 30 januari 2015

om 16:15

1. You can observe a lot by watching. [L.P. 'Yogi' Berra]
2. Since Griffith's studies in the early 20th century *Streptococcus pneumoniae* has grown into an important model organism. [Griffith, 1928]
3. With the discovery of the green fluorescent protein (GFP) in *Aequorea victoria* another milestone for molecular biology was set. [Shimomura et al., 1964]
4. Natural competence of the pneumococcus can be both a blessing and a curse.
5. StkP plays a crucial role in coordinating peripheral and septal peptidoglycan synthesis during cell division of rugby-ball-shaped bacteria, but it is only part of the puzzle. [this thesis]
6. To address a chicken-or-egg question: there is a strong indication that the positioning of penicillin-binding proteins (PBPs) is driven by substrate availability. [this thesis]
7. Different (bacterial) shapes require different shaping mechanisms.
8. *Omnis cellula e cellula* (Every cell derives from another (preexisting) cell). [F.-V. Raspail (1825); later attributed to R. Virchow]
9. We are (probably) more microbe than anything else. [comment by Prof. Venema]
10. *Quand on a terminé sa toilette du matin, il faut faire soigneusement la toilette de la planète* (When you have finished getting yourself ready in the morning, you must go get the planet ready). [Le petit prince - Antoine de Saint-Exupéry]