



Bacterial Stationary Phase Transition and Stress Adaptation: A Matter of Survival?

Guest Editors:

Prof. Dr. Margaret L. Britz

Tasmanian Institute of
Agriculture, University of
Tasmania, Hobart, TAS 7005,
Australia

Dr. Kayode Titus Adu

Merieux Nutrisciences, Australia

Deadline for manuscript
submissions:

closed (30 November 2020)

Message from the Guest Editors

Dear Colleagues,

The bacterial stationary phase is often regarded as a less active period of the growth cycle, which is associated with the transition into a dormant state in which the population's numbers do not increase and in which cell division is balanced by cell death. The associated mechanisms may include cell differentiation, modification of cell structures, and sporulation or entry into viable, non-culturable states. The stationary phase is often triggered by nutrient starvation, particularly lack of availability of essential carbon and nitrogen sources, accumulation of toxic end-products, or exposure to stressors, which inhibit further cell division and prematurely induce the onset of the stationary phase.

The aim of this Special Issue is to provide a useful reference tool on the mechanisms underpinning the transition into the stationary phase across bacterial genera to summarize the common and divergent strategies used by bacteria from diverse environments and how this knowledge can be exploited for biotechnological and medical benefit.

Prof. Margaret L. Britz
Guest Editor





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

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