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# JOURNAL OF APPLIED BACTERIOLOGY

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Contents of Vol. 20, No. 3, 1957

### ORIGINAL PAPERS

Rapid and simultaneous sporulation—Growth limitation and sporulation—Effect of cystine upon spore formation by *B. megaterium*—Observations with the electron microscope on the organization of the cortex of resting and germinating spores of *B. megaterium*—Appearance of bacterial spores under phase-contrast illumination—Biochemical changes occurring during spore germination in *Bacillus* species—Intermediate metabolism of aerobic spores. II. The relationship between oxidative metabolism and germination—Effects of L- and D-Alanine on the germination of some *Bacillus* spores—Effects of various germination agents on the spores of some strains of *B. subtilis*—Electrophoretic studies on spores and vegetative cells of certain strains of *B. megaterium*, *B. subtilis* and *B. cereus*—Some observations on the germination of

*Clostridium* spores and the subsequent delay before the commencement of vegetative growth—Correlation between cell count and nutrient concentration in germination of *B. cereus* spores—Structure of endospore and cytological processes involved in its formation and germination—Observations on heat destruction of spores of *B. cereus*—Influence of moisture and temperature on destruction of *Cl. botulinum* in acid bread—Temperature characteristics of spore germination and growth of *B. cereus*—Use of membrane filter techniques for control of thermophilic spores in the sugar industry—A further study of the spores of species of the genus *Bacillus* in the electron microscope using carbon replicas, and some preliminary observations on *Cl. welchii*.

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