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Genetics and Genomics of Probiotic Organisms

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Deadline for manuscript
submissions:

closed (30 November 2020)

Message from the Guest Editor

Probiotics are microorganisms typically associated with human and animal gastrointestinal tract strictly related to the wellbeing of the host. Bifidobacteria and lactobacilli are considered the main probiotics, but some strains of other genera such as *Leuconostoc*, *Pediococcus* and *Lactococcus* other than some yeasts are also considered and commercially utilized as probiotics. A rational design to screen the most relevant properties is fundamental for the selection of the most appropriate probiotic for specific targets such as immunostimulatory, anti-inflammatory, and antipathogenic activity.

More recently, comparative genomics of multiple genomes within and between related species and genera have been considered of great value to explore metabolic activities of probiotic microorganisms. This Special Issue welcomes submissions related to genetic and genomic characterization of strains belonging to bacteria and yeasts to screen and identify interesting metabolic activities and or biomolecules for probe applications in animal and human hosts. Rational design of wet-lab experiments linked to genetic and genomic study to screen for the most relevant probiotic properties is also welcome.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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