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â??One Day One Genomeâ?? initiative to harness microbial potential of India

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This initiative aims a release a fully annotated bacteriological genome isolated in the country freely available to the public

The Department of Biotechnology (DBT) and Biotechnology Research and Innovation Council (BRIC) has introduced the 'One Day One Genome' initiative to showcase the enormous microbial potential of India.

Amitabh Kant, India's G-20 Sherpa and Former CEO NITI announced the launch of 'One Day One Genome Initiative' on the 1st foundation day of BRIC held in National Institute of Immunology (NII), New Delhi on 9th November 2024

'One Day One Genome' initiative will highlight the unique bacterial species found in our country and emphasise their critical roles in environment, agriculture and the human health.

Genome sequencing will allow the visualisation of the hidden potential of the microbial world to the community at large. Sequencing data can be analysed to identify the genome encoded capacities for various important enzymes, antimicrobial resistance, bio active compounds etc. Research in this field will lead to the benefit of better protection and management of our environment, development in agriculture and improvement in human health.

This initiative coordinated by Biotechnology Research and Innovation Council-National Institute of Biomedical Genomics (BRIC-NIBMG), an institute of the Department of Biotechnology. This initiative aims a release a fully annotated bacteriological genome isolated in the country freely available to the public. This will be complemented with a detailed graphical summary, infographics and genome assembly/annotation details. These documents will thus give an idea about the scientific and industrial use of these microbes. Consequently, microbial genomics data will become more accessible to the general public, scientific researchers and thereby stimulate discussions; innovations directly benefit the entire community and ecosystem.