



ICGEB

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Knowledge

ICGEB International SEMINAR PROGRAMME 2018

Tuesday, 13 February 2018 | 12:00 noon | ICGEB Seminar Room, W building | Padriciano, 99, Trieste, ITALY



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Metagenomics projects use next generation sequencing to unravel genetic potential in microbial communities from a wealth of environmental niches, including those associated with human body and relevant to human health. In order to understand large datasets collected in metagenomics surveys and interpret them in context of how a community metabolism as a whole adapts and interacts with the environment, it is necessary to extend beyond the conventional approaches of decomposing metagenomes into microbial species' constituents and performing analysis on separate components. By applying concepts of translational optimisation through codon usage adaptation on entire metagenomic datasets, we demonstrate that a bias in codon usage present throughout the entire microbial community can be used as a powerful analytical tool to predict for community lifestyle-specific metabolism.

“Functional profiling of microbial communities through translational optimization”

Host: L. Banks

Registered seminars are available on YouTube, iTunes and ICGEB Podcast at:

<http://www.icgeb.org/podcast-program.html>

More information at:

seminars@icgeb.org | tel.: 040-3757377



Open event - Free entrance

