





ATWARM International Conference 2013
May 14th - 16th 2013 | Dublin City University

Session 2: Water & Wastewater Treatment

Michael Larkin







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SPEAKERS:

Joe Higgins, Veolia Water Ireland **Technical development priorities in water Industry**

Darragh Hobbs, Queen's University Belfast Phosphorus removal & recovery

Ciprian Briciu, Dublin City University

Faecal matter sensor development – marine & freshwater

Carlo Pozza, University of Duisburg-Essen *Microalgae and nutrient removal in wastewater*

Yoann Glocheux, Queen's University Belfast Arsenic removal using dolomites/laterite



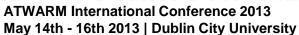
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Shining a light in the "black box"



















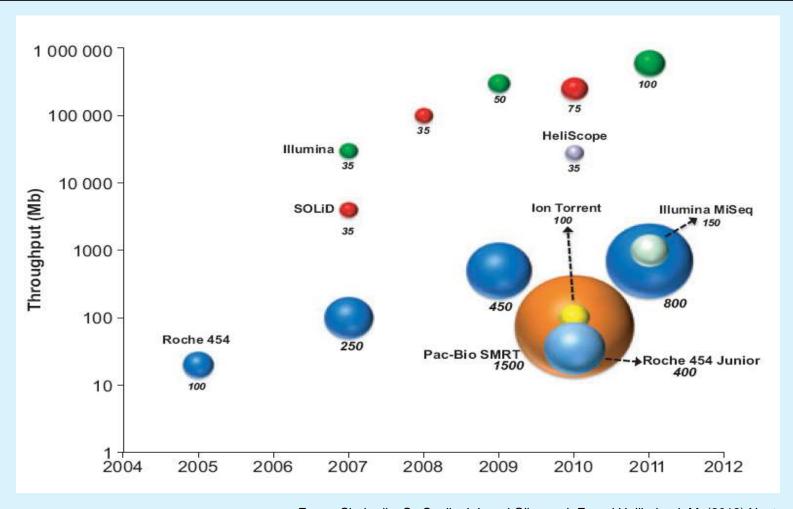




The power of sequencing technologies





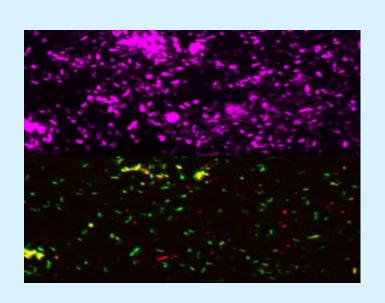


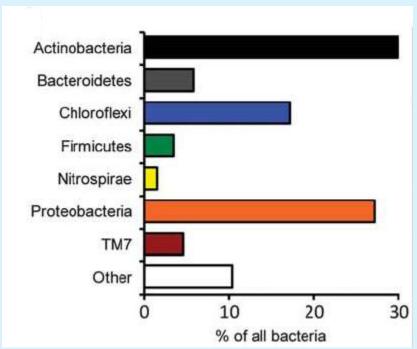
From: Shokralla, S., Spall, J. I. and Gibson, J. F. and Hajibabaei, M. (2012) Next-generation sequencing technologies for environmental DNA research. Molecular Ecology. 21, 1794–1805.

Analysis of bacteria in activated sludge







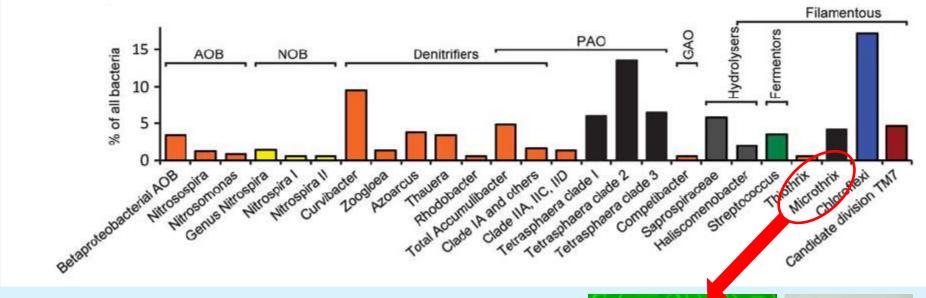


Albertsen, M., Benedicte, L., Hansen, S., Saunders, A. M., Nielsen, P. H. and Nielsen, K.L. (2012) A metagenome of a full-scale microbial community carrying out enhanced biological phosphorus removal. The ISME Journal. 6, 1094–1106.

The complete microbial community







AOB, ammonia-oxidizing bacteria;

GAO, glycogen-accumulating organism;

NOB, nitrite-oxidizing bacteria;

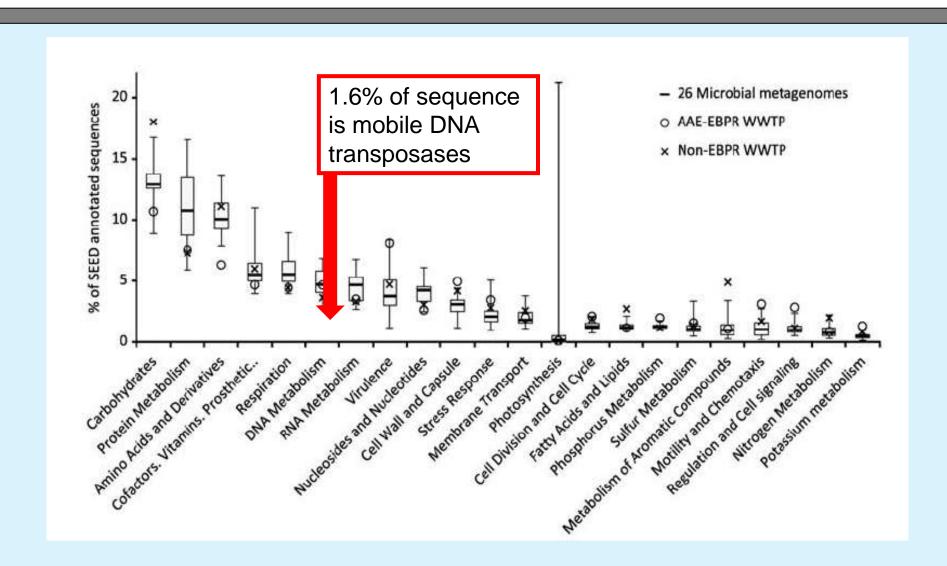
PAO, polyphosphate-accumulating organism.



Metabolic pathways represented













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The GREY Box

