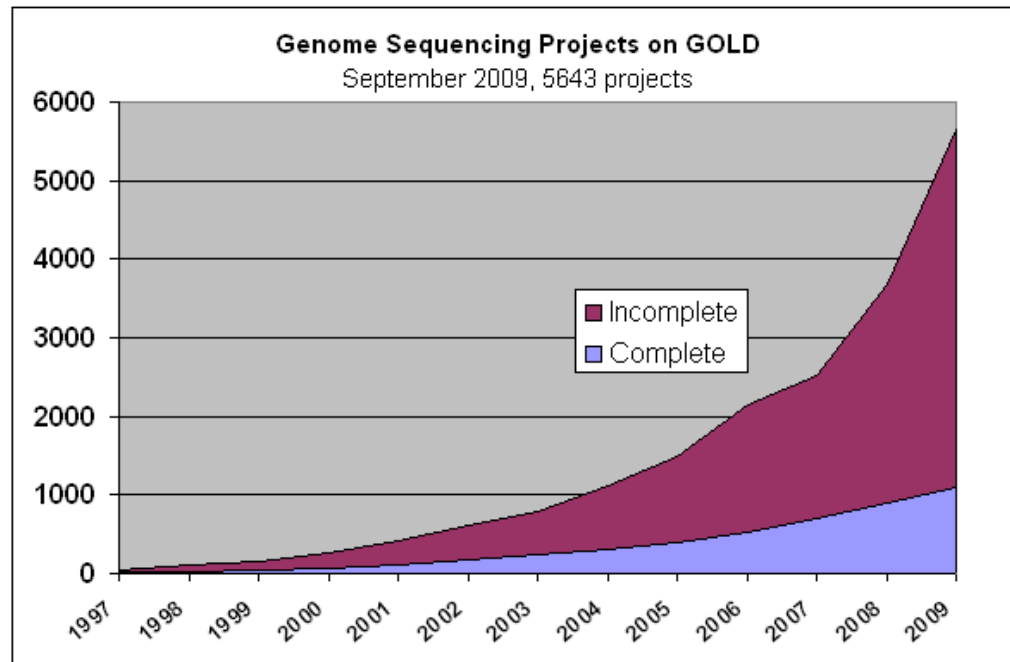
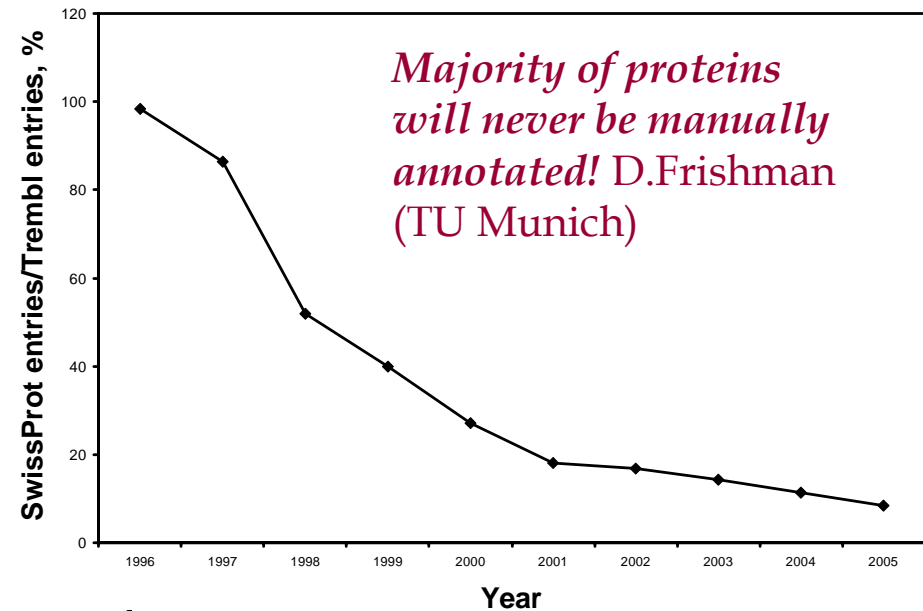
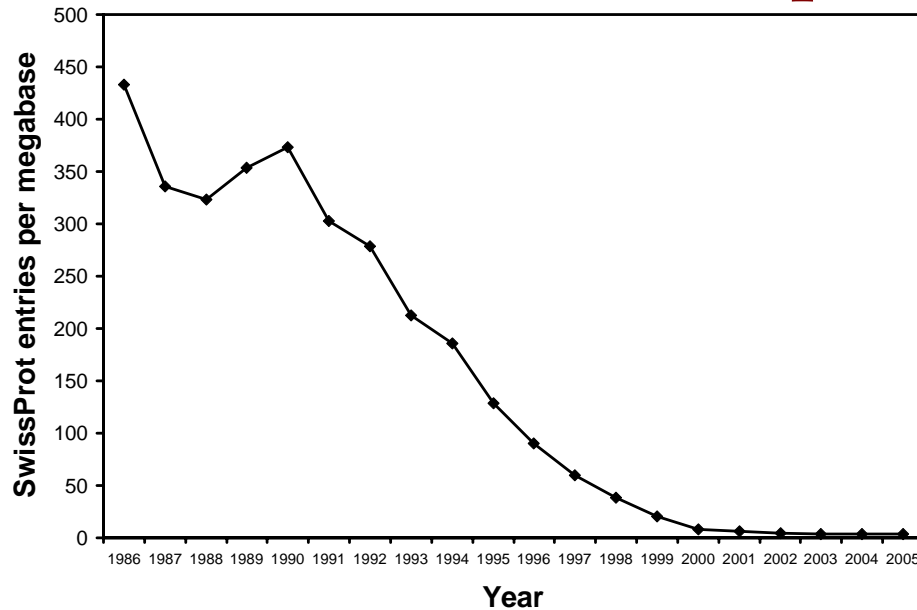




Prof Peter N. Golyshin
Environmental Genomics
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OCEAN.2011-2: Marine microbial diversity – new insights into marine ecosystems functioning and its biotechnological potential

Crisis in protein annotation



<http://www.genomesonline.org/>

There is an urgent need in developing tools for making use of the vast (meta)genomic data

The pipeline for solution:

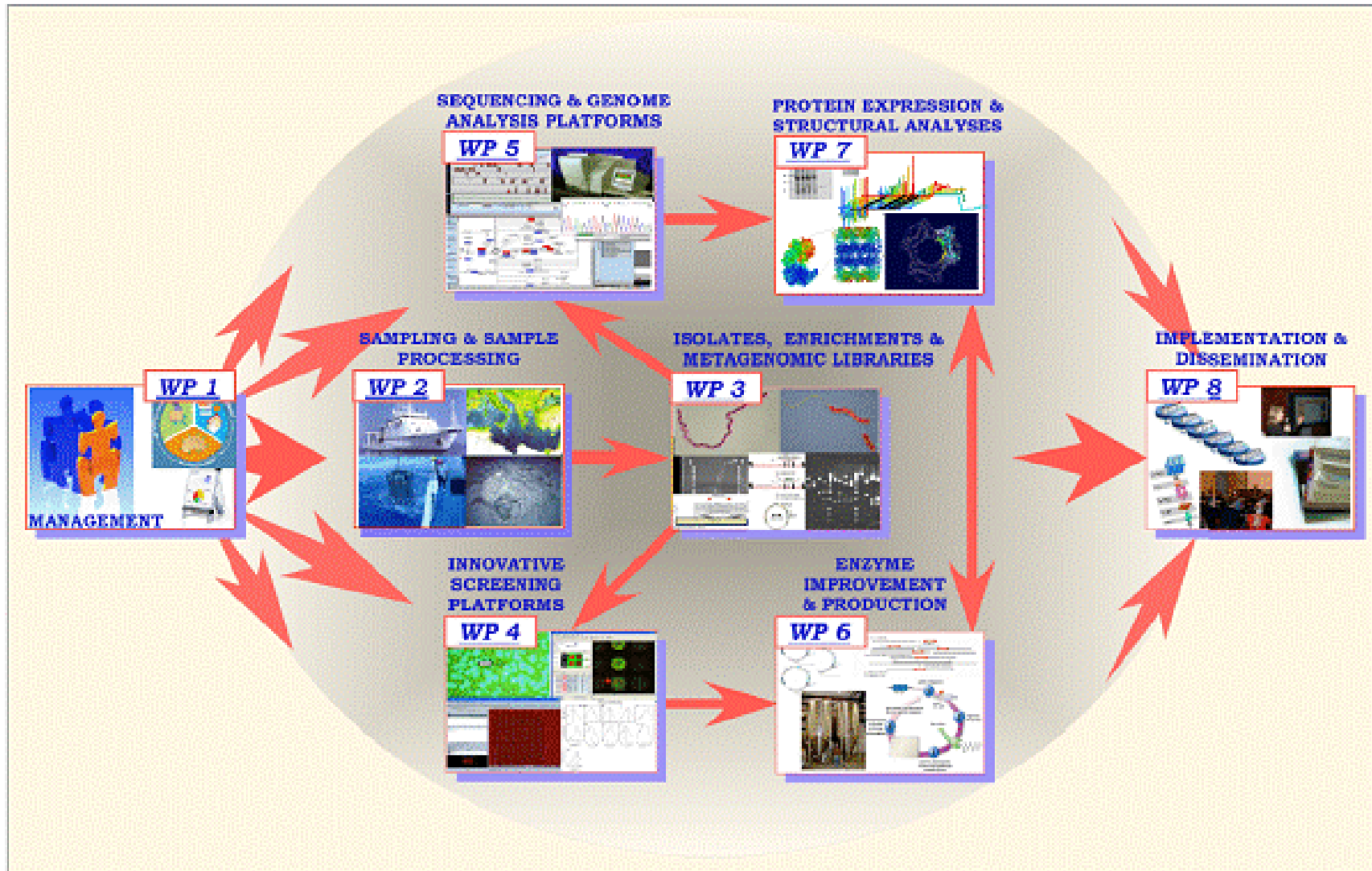
- Development of new bioinformatics tools
- Analysis of (meta)genomic data taken in to the environmental context and modelling
- Experimental validation and improvement of the *in silico* annotation
- Activity-driven discovery of the new protein diversity space,
and based thereof,
- New biotechnological applications



The pipeline for solution:

Marine metagenomics for new biotechnological applications

KBBE 2008-2943272, 2009-2013





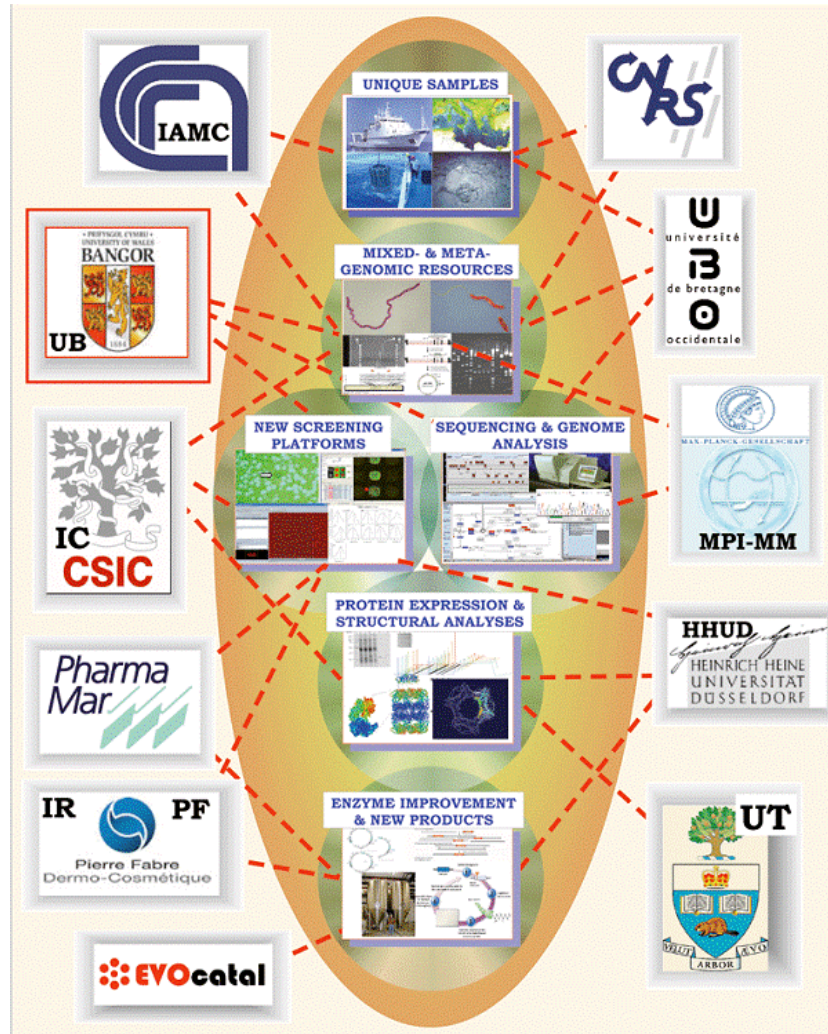
Marine metagenomics for new biotechnological applications

Bangor University, Bangor, Wales, UK
 Coordinator- Prof Peter N. Golyshin

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IC CSIC, Institute of Catalysis, Madrid, Spain

Industrial partners:
 Spain
 France
 Germany



CNRS, Laboratoire d'Océanographie Biologique de Banyuls, France

UBO, Université de Bretagne Occidentale, Brest, France

MPI-MM, Max Planck Institute for Marine Microbiology, Microbial Genomics Group, Bremen, Germany

Institute of Molecular Enzyme Technology, Heinrich-Heine-University of Düsseldorf, Germany

Ontario Centre for Structural Proteomics, University Health Network, University of Toronto, Canada