## Annotation of Photobacterium profundum genome - (session: Database: Ontology and Integration)

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The Genomic Research Group of CRIBI, University of Padova, has recently completed the genomic sequence of Photobacterium profundum, an extremophile bacterium adapted to life at high pressure and low temperature. The genomic sequence of this bacterium has been obtained in our laboratory and is more than 6 million base pairs long. We are currently in the finishing phase of the project, aiming to close the remaining 20 gaps and to confirm some genomic regions that are covered with low quality sequences. The genome of P. profundum is organized into 2 main circular chromosomes and a plasmid 80Kb long. The gene density is approximately one gene per 1090 bp and, as a result, about 6000 genes are present. In the poster we will describe the current status of the annotation and the procedures that we have applied to analyze this interesting genome.