ENZYNOV'2 CONGRESS

A new metagenome mining strategy unlocks Glycoside Phosphorylases discovery











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Teaser: 9 new GPs, new structure, new function







Acknowledgments

Cooper N. Cioci G., Terrapon N., Lombard V. Henrissat B. Li A. Laville E. Esque J. Potocki-Veronese G.

Poster # Sequence-similarity network approach Identifies new Glycoside Phosphorylases tbi Ladeveze S. Cooper, N. Cloci G. Terrapon N. Lombard V. Henrissat B., Li A., Laville E., Esque J. & Potocki-Veronese G. biology". Although being hard to identify in sequence databases as they are so similar to GHs and GTs, GPs found in inverting ies bear unique sequence specificities. Pinpointing them requires the analysis of very large sequence alignments. Sequ arity Networks (SSN)² allow the easy visualization of very large datasets. fically ouiding the experimenter into unexplored sequence space, where ne tions can be found³. It is a valuable tool for the unbiased creation of CAZy subfamilie Strategy equences similarity networks (SSN) ...For new Glycoside Phosphorylase 4. 1 11: - 11 cow rumen) 6 GP-containing inverting-GH famili (GH65, 94, 112, 130, 149 and GH161) 1.1 Results gut metagenor sequences p to DP4 At least DP10 DP2 DP2 19 selected candidates (ID PICT. PLoS ONE 4, p4345 simon.ladeveze@insa-toulouse.fr veronese@insa-toulouse.fr







RESIDENCES APPLICATES







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