## **Abstract of Presentation**

## Note: This paper should be typed in "Times New Roman" of 12pt.

Presentation Title(Should be no more than 20 words):

Enzymes in extremophiles with various applications

## Abstract :

The use of microbial diversity in connection with technological applications is widely distributed in different research centers and Universities in Argentina. In this connection, though not a complete list, the following topics and groups are active:

1) Extracellular monoenzyme deglycosylation system of 7-O-linked flavonoid  $\beta$ -rutinosides and its disaccharide transglycosylating activity from *Stilbella sp.* SES201 By Javier Breccia and group in the University of La Pampa (jabreccia@gmail.com).

2) Cold active enzymes from Puna and Beagle Channel in Subantarctic waters

A series of different activities were isolated from cold environments, both in free water and in connection with local fauna.

The main products are proteases, hemicellulalases, antimicrobial compound later decribed as Serraticina A, isolated from a psichrotolerant strain *5. proteamaculans* 136<sub>1</sub>, beta-glucosidases from Shewanella sp. G5, etc.

Phosphate solubilizing bacteria from plant rhizosphere in the PUNA, useful for organic cultivation

Proimi group in Tucuman: Drs. Leandro Sánchez, Marcela Ferrero, M E Lucca, Hector Cristobal, Carlos Abate and others. Contact <u>fsineriz@proimi.org.ar</u>

3.- Probiotics for Aquaculture: Dra Nelda Olivera – CENPAT-CONICET – Universidad San Juan Bosco – Puerto Madryn. <u>olivera@cenpat.edu.ar</u>

Isolation and characterization of aquatic bacteria (mainly lactic acid bacteria) showing antimicrobial activity against different fish pathogens. Production and biochemical characteristics of antagonist compounds produced by bacteria from fish and aquatic environments of the Patagonian region. Recently, we described the antimicrobial activity produced by *Lactococcus lactis* TW34, a resident of the *Odontesthes platensis* intestinal tract, against the pathogen *Lactococcus garvieae*.

4.- Polysaccharides (e.g. scleroglucan), fibrinolytic enzymes, statins or antibiotics) from noth west of Argentina. Dra. Julia Farina, PROIMI-CONICET, <u>jifarina@proimi.org.ar</u>.

5.- Actinobacteria as platform for production of biofuel and environmental

biotechnology. Hector Alvarez – Universidad Patagonia SJB <u>halvarez@unpata.edu.ar</u>

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