

CYTED FORUM
INTERNATIONAL WORKSHOP ON EXTREMOPHILES AND
EXTREME ECOSYSTEMS

SUNDAY, OCTOBER 17TH

14:00 – 16:00 **REGISTRATION**

16:00 – 16:15 **WELCOME WORDS:** Organizing committee

16:15 – 16:45 **BOOK LAUNCH - SCIENCE DISSEMINATION**



Microbes: life in extreme environments.
Dr. Ninfa Ramirez. Mexico

INAUGURAL CONFERENCES

16:45 – 17:45 *Microbes and cryosphere: opportunities and risks.*



Dr. Andres Yarzabal. Ecuador

17:45 – 18:45 *Smells from the desert: fungal and bacterial VOCs emitted by Agave and cacti microbiome core members promote plant growth and development.*



Dr. Laila Partida. Mexico

MONDAY, OCTOBER 18TH

PLENARY TALK

09:00 – 09:45 *Role of alanine in stress response regulation in *S. cerevisiae*.*



Dr. Alicia Gonzalez. Mexico

ORAL PRESENTATIONS

09:45 – 10:00 *Extremophilic and extremotolerant microbes: the new biofertilizers.*



Dr. Jeiry Toribio Jimenez. Mexico

10:00 – 10:15 *Desert fungi: plant growth promotion and protection against drought stress.*



Dr. Jorge Luis Folch Mallol. Mexico

10:15 – 10:30 *BioNet a new software for modeling gene coexpression networks.*



Eduardo Trutie Carrero. (Master student) Mexico

10:30 – 10:45 *Haloadaptive responses of *Aspergillus sydowii* to extreme water deprivation: morphology, compatible solutes, and oxidative stress at NaCl saturation.*



Irina Jimenez Gomez. (PhDs student) Mexico

10:45 – 11:00



Determination of the osmotic capacity of yeasts isolated from artisanal mezcal fermentation musts from Oaxaca.

Emilene Reyes Rodriguez. (PhD student) Mexico

11:00 – 11:30

COFFEE BREAK

ORAL PRESENTATIONS

11:30 – 12:00



*Study of the cryoprotective capacity of plant growth promoting bacteria (PGPB) in quinoa (*Chenopodium quinoa*) crops under cold stress conditions.*

MSc. Jimmy Ciancas. Prolnpa. Invited company. Bolivia

12:00 – 12:15



Oculatella species from soil of the Atacama Desert, Chile.

Dr. Karina Osorio Santos. Mexico

12:15 – 12:30



Structure of Bacteria and Archaea communities from the aphotic deep-sea waters of Southern Gulf of Mexico.

Lizt Selene Sibila Osorio Pando. (PhDs student) Mexico

12:30 – 12:45



Microeukaryote community structure in the oceanic waters of the Gulf of Mexico, a highly oligotrophic environment.

Karla Sidon Ceseña. (PhD student) Mexico

12:45 – 13:00



Thermo-tolerance of isolated yeasts in artisanal mezcal fermentation must, from San Pedro Teozacoalco, Oaxaca.

Gabriel Lopez Escobar. (Undergraduate student) Mexico

13:00 – 15:00

LUNCH

ORAL PRESENTATION

15:00 – 15:45



Desiccation tolerant microorganisms for the protection of crops from drought.

Dr. Concepcion Calvo, VitaNtech Biotechnology. S.L. Invited company. Spain

PLENARY TALK

15:45 – 16:30



Discovering of the Earth's virome.

Dr. David Paez. USA

17:00 – 18:30

SCIENTIFIC POSTERS

TUESDAY, OCTOBER 19TH

09:00 – 09:45



PLENARY TALK

Agricultural Compost Safety Index: application to the study of a bioremediation process of sewage sludge using native consortium from polluted sites.

Dr. Elisabet Aranda. Spain

09:45 – 10:15



ORAL PRESENTATIONS

Hypersaline environments: culturing of "unculturable" and classifying of "culturable" microorganisms.

Dr. Rafael Ruiz de la Haba. Spain

10:15 – 10:30



Comparison of the diversity of Cyanoprokaryota of biological crusts in three arid environments with different vegetation in the state of Puebla.

Dr. Itzel Becerra Absalon. Mexico

10:30 – 10:45



From glacier to mice: A new psychrotolerant fungus and its pathogenic capacity.

Franco Raul Huerta Padron. (Undergraduate student) Mexico

10:45 – 11:00



Ancient technology applied to a modern pandemy: pseudothermophile proteins for SARS Cov2 variant identification.

CTR. Invited company. Mexico

11:00 – 11:30

COFFEE BREAK

11:30 – 12:00



ORAL PRESENTATIONS

Fundación para el Desarrollo Frutícola (Chile), research from the private sector for the development of Agriculture in Chile.

MSc. Susana Izquierdo. Fundación para el Desarrollo Frutícola. Invited company. Chile

12:00 – 12:15



Exploring polycyclic aromatic hydrocarbon metabolism in (poly)extremophilic fungi.

Dr. Ramon Alberto Batista Garcia. Mexico

12:15 – 12:30



Study of microbial diversity in "El Chichón" crater lake based on a pH gradient.

Irving Oswaldo Velazquez Rios. (PhDs student) Mexico

12:30 – 12:45



Alternate CUG codon of Debaryomyces hansenii extremophilic yeast. New insights into adaptations to extreme environments.

Daniel Ochoa Gutierrez. (PhDs student) Mexico

12:45 – 13:00



Mineral micro-constructions harbor extreme niches in coralline Rhodophyta.

Andrea Bautista Garcia. (PhDs student) Mexico

13:00 – 15:00

LUNCH

15:00 – 15:45



PLENARY TALK

Microbial mats from Guerrero Negro, Baja California.

Dr. Brad Bebout. NASA, USA

15:45 – 16:15



ORAL PRESENTATION

Extremophile cyanobacteria: biotechnological uses.

Dr. Vitor Vasconcelos. Fytkio Biotech. Invited company. Portugal

17:00 – 18:30

SCIENTIFIC POSTERS

WEDNESDAY, OCTOBER 20TH

09:00 – 09:45



PLENARY TALK

Microbial colonization of polar glacier forefields.

Dr. Asunción de los Rios. Spain

09:45 – 10:45



CLOSURE CONFERENCE

From black to bloom – microbial interaction from the Greenland Ice Sheet.

Dr. Nina Gunde Cimerman. Slovenia

10:45 – 11:00

CLOSURE OF THE INTERNATIONAL WORKSHOP

11:00 – 11:30

COFFEE BREAK

MEETING OF "RED MEXICANA DE EXTREMÓFILOS" (REMEX)

WEDNESDAY, OCTOBER 20TH

11:30 – 11:45



WELCOME WORDS

Remex activity reports.

Dr. Ramon Alberto Batista Garcia. Mexico

11:45 – 13:00

REMEX: Members work meeting

13:00 – 15:00

LUNCH

15:00 – 16:30

Planification of REMEX activities 2022

16:30 – 17:00

CLOSURE OF REMEX MEETING