



LVI SAIB Meeting



XV SAMIGE Meeting

**SAIB-SAMIGE Joint Meeting
2020 *on line***

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Universidad Nacional de Rosario

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Auditor
Instituto de Agrobiotecnología del Litoral
(IAL- CONICET)
Facultad de Bioquímica y Ciencias Biológicas
Universidad Nacional del Litoral

DELEGATES OF SAIB SCIENTIFIC SESSIONS

Cell Biology
Javier Valdez Taubas
Centro de Investigaciones en Química Biológica de Córdoba
(CIQUIBIC-CONICET)
Facultad de Ciencias Químicas
Universidad Nacional de Córdoba

Lipids
Nicolás Favale
Instituto de Química y Fisicoquímica Biológicas
(IQUIFIB-CONICET)
Facultad de Farmacia y Bioquímica
Universidad de Buenos Aires

Plants
José M Estevez
Fundación Instituto Leloir
(FIL-IIBBA CONICET)

Microbiology
Augusto Bellomio
Instituto Superior de Investigaciones Biológicas
(INSIBIO-CONICET)
Facultad de Bioquímica, Química y Farmacia.
Universidad Nacional de Tucumán

Signal Transduction
Vanesa Gottifredi
Fundación Instituto Leloir
(FIL-IIBBA CONICET)

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President
Instituto de Biología Molecular y Celular de Rosario
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Facultad de Ciencias Bioquímicas y Farmacéuticas
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Departamento de Ciencia y Tecnología
Universidad Nacional de Quilmes

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Treasurer
Instituto de Investigaciones en Biodiversidad y Biotecnología
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Universidad Nacional de Mar del Plata

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Naturales
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Rosana De Castro
Protreasurer
Instituto de Investigaciones Biológicas
(IIB-CONICET)
Universidad Nacional de Mar del Plata.

Estela Galván
Auditor
Centro de Estudios Biomédicos, Básicos, Aplicados y Desarrollo
(CEBBAD-CONICET)
Universidad Maimónides

María Julia Pettinari
Auditor
Instituto de Química Biológica de la Facultad de Ciencias Exactas y
Naturales
(IQUIBICEN-CONICET)
Universidad de Buenos Aires

**SAIB-SAMIGE
ON LINE
PROGRAM**

MONDAY NOVEMBER 2, 2020

9:15-9:30

OPENING CEREMONY

*María Isabel Colombo- SAIB President
Eleonora García Vescovi - SAMIGE President*

9:30-10:30

SAIB-SAMIGE PLENARY LECTURE

Rotem Sorek

Weizmann Institute of Science, ISRAEL

"The immune system of bacteria: Beyond CRISPR"
Chairpersons: Claudio Valverde- Andrea Smania

11:00-13:00

YOUNG INVESTIGATORS SYMPOSIUM I

Chairpersons: Silvia Moreno and Leonardo Curatti

Luis Mariano Polo

IHEM-CONICET, Facultad de Medicina, UNC

"DNA-protein interactions involved in single strand DNA-break repair"

Paula Tribelli

IQUIBICEN. Facultad de Ciencias Exactas y Naturales, UBA

"Staphylococcus aureus Lpl lipoproteins trigger human host cell invasion via activation of Hsp90 receptor"

Corina Fusari

Centro de Estudios Fotosintéticos y Bioquímicos, CONICET-UNR

"Genetic regulation of metabolic and physiological traits in Arabidopsis thaliana"

Betina Agaras

Lab. de Fisiología y Genética de Bacterias Beneficiosas para Plantas – UNQ

"Autochthonous isolates from the Pseudomonas genus: evaluation of their plant probiotic traits for the development of agricultural bio-inputs"

14:00-16:00

ORAL COMMUNICATIONS

Cell Biology I
Microbiology I
Plants I

16:30-18:30

ORAL COMMUNICATIONS

Microbiology II
Biotechnology I

00:00-23:59

ePOSTERS

Cell Biology (CB P01/14)

Lipids (LI P01/08)
Microbiology (MI P01/68)
Plants Bioch. and Mol. Biol. (PL P01/26)
Signal Transduction (ST P01/07)
Biotechnology (BT P01/26)
Enzymology (EN P01/08)
Neuroscience (NS P01/03)
Structural Biology (SB P01/P03)

TUESDAY NOVEMBER 3, 2020

9:30-11:30

YOUNG INVESTIGATORS SYMPOSIUM II

Chairpersons: Federico Sisti-Rosana de Castro

Alfonso Soler Bistue.

Instituto de Investigaciones Biotecnológicas, UNSAM

"Genomic strategies to rationally reprogram bacterial growth"

Betiana Garavaglia.

Instituto de Biología Molecular y Celular de Rosario (IBR) - UNR

"General stress response proteins from Xanthomonas citri subsp. citri_ involved in stress adaptation and virulence"

Matías D. Asención Diez.

Instituto de Agrobiotecnología del Litoral CCT-Santa Fe

"Glucosamine in rhodococci. From metabolism to enzyme precision synthesis"

Daiana Capdevila.

Fundación Instituto Leloir.

"Role of conformational entropy in allostery: new insights into bacterial transition metal and polysulfide"

12:00-13:00

SEBBM PLENARY LECTURE

Manuel Serrano

IRB Barcelona- SPAIN

"Understanding and controlling cellular identity and plasticity"

Chairpersons: María Isabel Colombo-Gabriela Salvador

14:00-16:00

ORAL COMMUNICATIONS

Biotechnology II

Lipids

Microbiology III

16:30-18:30

ORAL COMMUNICATIONS

Cell Biology II

Plants II

Signal Transduction and Structural Biology

00:00-23:59

ePOSTERS

Cell Biology (CB P01/14)

Lipids (LI P01/08)

Microbiology (MI P01/68)
Plants Bioch. and Mol. Biol. (PL P01/26)
Signal Transduction (ST P01/07)
Biotechnology (BT P01/26)
Enzymology (EN P01/08)
Neuroscience (NS P01/03)
Structural Biology (SB P01/P03)

WEDNESDAY, NOVEMBER 4th 2020

9:30-10:30

CONO SUR PLENARY LECTURE

Dario Zamboni.

San Pablo University. BRASIL

“Manipulation of host signaling pathways by Leishmania RNA Virus 1”.

Chairpersons: María Isabel Colombo-Eleonora García Vescovi

11:00-13:00

ROUND TABLE

“Scientific policies in Argentina”

Chairpersons: María Isabel Colombo-Eleonora García Vescovi

Fernando Peirano

ANPIDTYI President-ARGENTINA

Ana María Franchi

CONICET President-ARGENTINA

Roberto Salvarezza

Science, Technology and Innovation Minister-ARGENTINA

14:00-16:00

ORAL COMMUNICATIONS

Microbiology IV

Enzymology

16:30-18:30

ORAL COMMUNICATIONS

Cell Biology III

Plants III

Microbiology V

00:00-23:59

ePOSTERS

Cell Biology (CB P01/14)
Lipids (LI P01/08)
Microbiology (MI P01/68)
Plants Bioch. and Mol. Biol. (PL P01/26)
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Biotechnology (BT P01/26)
Enzymology (EN P01/08)
Neuroscience (NS P01/03)
Structural Biology (SB P01/P03)

THURSDAY NOVEMBER 5, 2020

9: 30-11:30

SARS-CoV-2 SYMPOSIUM

Argentine scientific developments to cope with the SARS-CoV-2 pandemic: Reinventing potentials

Chairpersons: José Luis Bocco and Laura Raiger-Iustman

Daniel Ghiringhelli.

Laboratorio de ingeniería genética y biología celular y molecular-UNQ

"Kits development associated with COVID-19 diagnosis"

Diego Chouhy

Instituto de biología molecular y celular de Rosario –UNR

"Development of methods for the molecular diagnosis of the SARS-CoV-2 virus by Real Time PCR"

Cecilia D'Alessio –Matías Blaustein

On behalf of Consorcio Anti-COVID

"Social distancing and strengthened research community efforts to fight pandemics: producing a low-cost SARS-CoV-2 antigen"

Mariana Viegas

Laboratorio de virología -Hospital general de niños "RICARDO GUTIERREZ"

"Argentine epidemiological surveillance of SARS-CoV2 in the NGS era"

12.00-12:30

Closing Ceremony: Oral Communication Awards and BIOCELL Cover

16:00

SAMIGE ASSEMBLY

17.30

SAIB ASSEMBLY

ORAL COMMUNICATIONS

MONDAY NOVEMBER 2, 2020

14:00-16:00

CELL BIOLOGY I

Chairpersons: Cecilia Álvarez- Javier Valdez Taubas

14:00-14:13

CB-C01-017

FROM CARTOONS TO QUANTITATIVE MODELS IN GOLGI TRANSPORT

Nieto F, Quirós N, Mayorga LS

14:15-14:28

CB-C02-054

CSP DRIVES TRANS SNARE ASSEMBLY DURING ACROSOMAL EXOCYTOSIS

Flores Montero K, Berberián MV, Ruete MC

14:30-14:43

CB-C03-208

KCTD15, A NOVEL PROTEIN INVOLVED IN CELL TRAFFICKING

Zarelli VEP, Lopez de Armentia MM, Colombo MI.

14:45-14:58

CB-C04-239

INTRACELLULAR TRAFFICKING OF INFLUENZA VIRUS M1 PROTEIN AT LATE STAGES OF THE INFECTIOUS CYCLE

Drake Figueredo A, Morellatto Ruggieri L, Magadán JG

15:00-15:13

CB-C05-237

THE HIV-1 ACCESSORY PROTEIN Vpu TARGETS HOST SLC1A5 (ASCT2) AMINO ACID TRANSPORTER

Morellatto Ruggieri L, Drake Figueredo A, Magadán JG

15:15-15:28

CB-C06-218

INTERACTION BETWEEN PROTEIN TYROSINE PHOSPHATASE 1B (PTP1B) AND EGFR AT ER-PM JUNCTIONS

Perez Collado ME, Arregui CO

15:30-15:43

NS-C01-202

INTERNEURONAL EXCHANGE AND FUNCTIONAL INTEGRATION OF SYNAPTOBREVIN VIA EXTRACELLULAR VESICLES

Vilcaes AA, Chanaday NL, Kavalali ET

15:45-15:58

CB-C07-004

BIOLOGICAL RELEVANCE OF 14-3-3 ACETYLATION DURING OSTEOGENIC LINEAGE DETERMINATION

Frontini-López YR, Uhart M, Bustos DM

14:00-16:00

MICROBIOLOGY I

Chairpersons: Lucila Saavedra - Julia Pettinari

14:00-14:13

MI-C01-12

Pseudomonas putida BP01, A DARK-PIGMENTED ISOLATE WITH ANTIBACTERIAL ACTIVITY AGAINST PHYLLOSPHERIC PATHOGENS

Sosa MF, Sobrero P, Juan H, Iriarte A, Valverde C, Agaras B

14:15-14:28

MI-C02-13

FtsA PROTEIN OVEREXPRESSION INDUCES CELL MORPHOLOGY CHANGES AND GROWTH DEFECTS IN *Streptococcus pneumoniae*

Olivero NB, Reinoso-Vizcaíno NM, Cortes PR, Hernández Morfa M, Veening JW, Echenique J

14:30-14:43

MI-C03-14

EFFECT OF EXTRA VIRGIN OLIVE OIL ON MOUSE GASTRIC MUCOSA AFTER *Helicobacter pylori* INFECTION

Arismendi Sosa AC, Vega AE, Penissi AB

14:45-14:58

MI-C04-16

STUDY OF THE GROWTH AND PRODUCTION OF *Yersinia enterocolitica* BIOFILM IN DIFFERENT MEAT JUICE CONCENTRATIONS

Iriarte HJ, Lucero Estrada CSM

15:00-15:13

MI-C05-19

ANTIBIOFILM ACTIVITY OF THE PHYTOCHEMICAL 1,8-CINEOLE AGAINST MULTIDRUG RESISTANT UROPATHOGENIC *Escherichia coli*

Vázquez NM, Mariani F, Torres PS, Moreno S, Galván EM

15:15-15:28

MI-C06-31

AN INTEGRATIVE ANALYSIS OF THE POLYAMINE METABOLISM IN *Pseudomonas syringae*: DECODING ITS ROLES IN BACTERIAL PHYSIOLOGY

Solmi L, Stalder S, Rosli HG, Pombo MA, Rossi FR, Romero FM¹, Ruiz OA, Gárriz A

15:30-15:43

MI-C07-36

SCREENING FOR SALMONELLA FACTORS REGULATING BIOFILM FORMATION

Cisana P, Echarren ML, Soncini FC

15:45-16:00

MI-C08-46

CHARACTERIZATION OF REPLICATION MODULES IN *Acinetobacter baumannii* PLASMIDS

Sanchez RI, Morán-Barrio J, Viale AM

14:00-16:00

PLANTS I

Chairpersons: Cecilia Borassi - José Estévez

14:00-14:13

PL-C01-2

ROLE OF HASTY IN THE MIRNA BIOGENESIS IN ARABIDOPSIS

Cambiagno DA, Giudicatti AJ, Arce AL, Gagliardi D, Li L, Yuan W, Lundberg DS, Weigel D, Manavella PA

14:15-14:28

PL-C02-5

STUDY OF THE FUNCTION OF MED17 IN THE DNA DAMAGE RESPONSE AFTER UV-B

Giustozzi M, Freytes S, Cerdán P, Casati P

14:30-14:43

PL-C03-6

ANALYSIS OF E2FA PROTEIN IN THE RESPONSE OF ARABIDOPSIS THALIANA PLANTS TO UV-B RADIATION

Sheridan María Luján, Gomez María Sol, Casati, Paula

14:45-14:58

PL-C04-8

RELATIONSHIP BETWEEN FLAVONE SYNTHESIS AND SALICYLIC ACID METABOLISM

Serra P, Righini Aramburu S, Dillon F, Grotewold E, Falcone Ferreyra ML, Casati P

15:00-15:13

PL-05-33

TRANSCRIPTOMIC ANALYSIS REVEALS THE ACTION MECHANISM OF SIRODESMIN PL TOXIN IN BRASSICA NAPUS.

Pombo, Marina; Elliott, Candace; Rosli, Hernán Romero, Fernando; Gárriz, Andrés; Ruiz, Oscar; Idnurm, Alexander, Rossi, Franco

15:15-15:28

PL-C06-70

ON THE REGULATION OF ARABIDOPSIS THALIANA PHOSPHOENOLPYRUVATE CARBOXYKINASES

Rojas BE, Hartman MD, Figueroa CM, Iglesias AA

15:30-15:43

PL-C07-71

STUDY OF CELERY ENZYMES INVOLVED IN MANNITOL METABOLISM

Minen RI, Bhayani J, Liu D, Ballicora MA, Iglesias AA, Figueroa CM

16:30-18:30

MICROBIOLOGY II

Chairpersons: Andrea Smania - Osvaldo Yantorno

16:30-16:43

MI-C09-47

IDENTIFICATION OF AN HYDRAZONE CAPABLE OF INHIBITING THE PhoP/PhoQ VIRULENCE SYSTEM OF *Salmonella*

Lobertti CA, Cabezudo, I, Furlán RLE, García Vescovi E

16:45-16:58

MI-C10-53

**EFFECT OF NITROSATIVE STRESS UNDER MICROAEROBIC CONDITIONS IN
Pseudomonas extremaustralis REVEALED BY TRANSCRIPTOME ANALYSIS**

Solar Venero EC, Tribelli PM, López NI

17:00-17:13

MI-C11-58

A MULTIMERIC MATRIX-ASSOCIATED LECTIN (RapD) AFFECTS PROPER EXOPOLYSACCHARIDE PROCESSING IN *Rhizobium leguminosarum*

Tarsitano J, Russo DM, Alonso L, Zorreguieta A

17:15-17:28

MI-C12-68

PLANT GROWTH-PROMOTING BACTERIA IMPROVES FRUIT YIELD AND QUALITY OF TOMATO (*Solanum lycopersicum*)

Almirón CC, Badin EE, Caset ML, Romero AM, Lespinard AR, Yaryura PM

17:30-17:43

MI-C13-75

***AZOSPIRILLUM BRASILENSE* SP245 AND *PSEUDOMONAS FLUORESCENS* A506 ASSOCIATE COOPERATIVELY IN DUAL-SPECIES BIOFILMS**

Díaz PR, Valverde C, Creus CM, Maroniche GA

17:45-17:58

MI-C14-82

SUCROSE METABOLISM IN *Nitrosomonas europaea*

Ferretti MV, Ballicora MA, Iglesias AA, Figueroa CM, Asencion Diez MD

18:00-18:13

MI-C15-94

CHARACTERIZATION OF TWO NEW GENES THAT REGULATE CONJUGATIVE PLASMID TRANSFER ON RHIZOBIA

Castellani LG, Luchetti A, Nilsson JF, Pistorio M, Torres Tejerizo GA.

18:15-18:28

MI-C16-95

PLANT GROWTH-PROMOTING RHIZOBACTERIA IMMOBILIZED IN BIODEGRADABLE POLYMERS AS POTENTIAL BIOFERTILIZERS FOR MAIZE CROPS

Fernández M, Pagnussat LA, Martínez R.D, Perez J, Francois N, Creus C.M

16:30-18:30

BIOTECHNOLOGY I

Chairpersons: Cecilia D'Alessio-Claudia Sttudert

16:30-16:43

BT-C01-27

THE ROLE OF ENGINEERED BACTERIAL OUTER MEMBRANE VESICLES IN CONFERRING PROTECTIVE IMMUNITY AGAINST CHAGAS DISEASE

Maria Elisa Vázquez, Andrea C. Mesías, Brenda Zabala, Joseph Spangler, Cecilia Parodi, Scott Walper, Leonardo Acuña, Cecilia Pérez Brandán.

16:45-16:58

BT-C02-28

PHENOLIC ALDEHYDES AND FURFURAL DEGRADING FUNGI FOR THE BIOLOGICAL PRETREATMENT OF LIGNOCELLULOSIC BIOMASS

Zanellati A, Spina F, Rodriguez F, Martin M, Dinuccio E, Varese GC, Scarpeci TE

17:00-17:13

BT-C03-103

LYOPHILES OF PSEUDOMONAS SAGITTARIA MOB-181 GROWN IN WASTE-BASED CULTURE MEDIUM IMPROVE GROUNDWATER Mn REMOVAL

Ciancio L, Vidoz M, Piazza A, Labanca C, Pacini V, Ottado J, Gottig N

17:15-17:28

BT-C04-116

ENHANCEMENT OF A MICROCYSTIN BIOSENSOR BY MUTANTS MOLECULAR SCREENING WITH VINA AND FOLDX.

Alba Posse Ezequiel, Bruque Carlos David, Gasulla Javier, Carriquiriborde Pedro, Nadra Alejandro Daniel.

17:30-17:43

BT-C05-136

THE INTERACTION BETWEEN THE METAL BINDING LOOP AND THE BACKBONE DETERMINES METAL-DIRECTED ACTIVATION OF MerR METALLOREGULATORS

Mendoza JI and Checa SK

17:45-17:58

BT-C06-159

ISOLATION OF ACTINOBACTERIA AS POTENTIAL BIOLOGICAL CONTROL AGENTS AGAINST SOYBEAN FUNGAL PATHOGENS

Villafañe DL, Bercovich BA, Gramajo H, Chiesa MA & Rodríguez EJ

TUESDAY NOVEMBER 3, 2020

14:00-16:00

BIOTECHNOLOGY II

Chairpersons: Eleonora Campos-Natalia Gottig

14:00-14:13

BT-C07-163

FUNCTIONAL FERMENTED BEVERAGES ENRICHED IN SELENO-AMINO ACIDS AND SELENO-NANOPARTICLES

Martínez FG, Moreno-Martin G, Madrid-Albarrán Y, Ordoñez FO, Pescuma M, Mozz F

14:15-14:28

BT-C08-184

BIOCATALYTIC CHARACTERIZATION OF THREE BACTERIAL BAEYER-VILLIGER MONOOXYGENASES

Romina D. Ceccoli, Dario A. Bianchi, Daniela V. Rial

14:30-14:43

BT-C09-226

PLOMBOX: A DEVICE FOR OPEN-SOURCE METROLOGY TO FIGHT LEAD CONTAMINATION IN DRINKING WATER.

Gándola Yamila, Alvarez Macarena, Gasulla Javier and Nadra Alejandro D.

14:45-14:58

BT-C10-261

NOVEL PROTEASES FROM SEQUENCE-BASED METAGENOMICS OF DAIRY INDUSTRIES STABILIZATION PONDS

Irazoqui, J.M.; Eberhardt, M.F.; Amadio, A.

15:00-15:13

BT-C11-266

COMPARISON OF SARS-COV-2-SPIKE RECEPTOR BINDING DOMAIN PRODUCED IN *PICHIA PASTORIS* AND MAMMALIAN CELLS

Idrovo Hidalgo T. on behalf of Argentinian AntiCOVID Consortium

15:15-15:28

BT-C12-282

Optimization of pH for L-Dopa production in bench-top scale stirred-tank bioreactor using a *Paraboveremia* strain

Peralta M P, Delgado O D, Lechner B E, Fariña J I

14.00-16:00

LIPIDS

Chairpersons: Martin Oresti-Nicolás Favale

14:00-14:13

LI-C01-10

UNCOVERING ENDOCANNABINOID (2-AG) PATHWAY REQUIRED TO MODULATE CHOLESTEROL METABOLISM IN *Caenorhabditis elegans*

Hernández Cravero B, Vranych C, Prez G, de Mendoza D.

14:15-14:28

LI-C02-22

INTERSECTIONS BETWEEN ALPHA-SYNUCLEIN AND CHOLESTEROL: AN UNSOLVED CASE

Alza NP, Salvador GA

14:30-14:43

LI-C03-85

IMPLICATION OF SPHINGOSINE-1-PHOSPHATE RECEPTOR 2 (S1PR2) IN DIFFERENTIATION AND DEDIFFERENTIATION OF EPITHELIAL RENAL CELLS

Romero, DJ, Santacreu, BJ, Tarallo E, Favale, NO.

14:45-14:58

LI-C04-289

ENDOGENOUSLY SYNTHESIZED SPHINGOSINE-1-PHOSPHATE TRIGGERS CELL EXTRUSION IN MDCK CELLS

Santacreu BJ, Romero DJ, Pescio LG, Sterin-Speziale NB, Favale NO

15:00-15:13

LI-C05-81

MENADIONE-INDUCED OXIDATIVE STRESS ALTERS LIPID METABOLISM OF THE MATURE ADIPOCYTE

Funk MI, Conde MA, Alza NP, Salvador GA, Uranga RM

15:15-15:28

LI-C06-244

URSOLIC ACID INTERFERES LIPID DROPLET METABOLISM AND INHIBITS ROTAVIRUS INFECTION

Tohmé MJ, Caruso B, Wilke N, Colombo MI, Delgui LR

14:00-16:00

MICROBIOLOGY III

Chairpersons: Laura Raiger Iustman – Fernanda Pomares

14:00-14:13

MI-C17-104

***bla_{BioF}*, A NOVEL B2 METALLO- β -LACTAMASE GENE FROM *PSEUDOMONAS* SP. ISOLATED FROM AN ON-FARM BIOPURIFICATION SYSTEM**

Cafiero JH, Vacca C, Lozano MJ, Martini MC, Lagares A, Tomatis PE, Del Papa MF

14:15-14:28

MI-C18-106

INSIGHTS INTO THE CONTROL OF MEMBRANE LIPID HOMEOSTASIS IN FAPR-CONTAINING GRAM-POSITIVE BACTERIA

Machinandiarena, F; Nakamatsu, L; Schujman, GE; de Mendoza, D; Albanesi, D

14:30-14:43

MI-C19-106

COMPARATIVE GENOMIC ANALYSIS OF THE *Fructobacillus* GENUS REVEALS IMPORTANT DIFFERENCES IN AMINO ACID METABOLISM

F. Mohamed, O. Ordoñez, R. Raya, F. Mozzì

14:45-14:58

MI-C20-130

COPING WITH OXIDATIVE STRESS IN EXTREME ENVIRONMENTS: DISTINCTIVE ROLES OF *ACINETOBACTER* SP. VER 3 SUPEROXIDE DISMUTASES

Steimbrüch B, Sartorio M, Bortolotti A and Repizo G

15:00-15:13

MI-C21-131

WHAT HAPPENS WHEN THE HEAVY METAL-RESISTANT MICROORGANISM

Fusarium tricinctum M6 ENCOUNTERS Cu(II)?

Bonilla JO, Callegari EA, Paez MD, Gil RA, Villegas LB

15:15-15:28

MI-C22-132

BIOSYNTHESIS OF UNSATURATED FATTY ACIDS IN *ANEURINIBACILLUS MIGULANUS* ATCC 9999 AND ITS ROLE IN COLD ADAPTATION.

Barbona B, Scattolini A, Altabe S

15:30-15:43

MI-C23-143

**BRADYRHIZOBIA ISOLATED FROM FIELD NODULES WITH INCREASED MOTILITY
IMPROVE YIELD OF SOYBEAN CROPS**
Iturralde ET, Colla D, Faura A, Lodeiro AR, Pérez Giménez J

16:30-18:30

CELL BIOLOGY II

Chairpersons: Malena Alvarez-Javier Valdez Taubas

16:30-16:43

CB-C08-032

CIN-INDEPENDENT CELL DEATH IN S PHASE INDUCED BY POL ETA DEPLETION

Siri OS, Federico MB, Calzetta NL, Martino J, De la Vega Páez MB, Gottifredi V

16:45-16:58

CB-C09-077

THE ROLE OF SPECIALIZED POLYMERASE IOTA IN THE DNA DAMAGE RESPONSE

Venerus Arbillia S, Mansilla SF, Bertolin A*, De la Vega MB, Gottifredi V*

*Equal collaboration

17:00-17:13

CB-C010-170

**UPREGULATION OF IMMUNOSTIMULATORY NON-CODING RNAs DURING
THE CELLULAR RESPONSE TO STRESS**

Gimenez M, Contreras NS, La Spina PE, Boccaccio GL, Fernandez-Alvarez, AJ

17:15-17:28

CB-C011-035

**THE ALTERNATIVE SPLICING OF AN EXITRON DETERMINES THE SUBNUCLEAR
LOCALIZATION OF THE ARABIDOPSIS DNA-GLYCOSYLASE MBD4L UNDER HEAT
STRESS**

Cecchini NM, Torres JR, Lescano I, Cobo S, Nota F, Álvarez ME

17:30-17:43

CB-C012-062

**STUDY OF THE ROLE OF TCP TRANSCRIPTION FACTORS IN COTYLEDON OPENING
AND EXPANSION IN RESPONSE TO ILLUMINATION**

Alem AL, Gonzalez DH, Viola IL

17:45-17:58

CB-C013-101

**CYTOCHROME c AS A MITOCHONDRIAL REGULATOR OF ARABIDOPSIS
DEVELOPMENT**

Canal MV; Mansilla N; Gras D; Gonzalez DH; Welchen E

18:00-18:13

CB-C014-200

**SMAUG MEMBRANELESS ORGANELLES REGULATE mRNAs THAT ENCODE
MITOCHONDRIAL ENZYMES**

Boscaglia, Pascual, Pimentel, Aviv, Corbat, Pessoa, Plessis, Carmo-Fonseca, Grecco, Casado, Boccaccio, Thomas

18:15-18:28

CB-015-242

DROSOPHILA Me31B A NOVEL TYPE OF eIF4E INTERACTING PROTEIN IN P-BODIES

Vilardo E, Greco Hernández, Rivera Pomar R, Layana C

16:30-18:30

PLANTS II

Chairpersons: Elina Welchen - José Estévez

16:30-16:43

PL-C08-87

COUSINS LONG REMOVED: FUNCTIONAL CONSERVATION OF BEH TRANSCRIPTION FACTORS IN BRYOPHYTES AND ANGIOSPERMS

Mariano Garcia-Hourquet, Martin Mecchia, Ana Caño-Delgado, Santiago Mora-Garcia

16:45-16:58

PL-C09-97

DECIPHERING THE REDOX METABOLISM OF THE MAIZE-*Azospirillum brasilense* INTERACTION EXPOSED TO ARSENIC-AFFECTED GROUNDWATER

Peralta JM, Bianucci E, Romero-Puertas MC, Furlan A, Castro S, Travaglia C

17:00-17:13

PL-C10-109

PRETREATMENT OF WHEAT SEEDS WITH POLYAMINES MODULATES SEEDLING GROWTH BY REGULATING HORMONAL AND REDOX BALANCE

Gómez Mansur NM, Recalde L, De Diego N, Spíchal L, Cavar S, Pěnčík A, Novák O, Gallego SM, Benavides MP.

17:15-17:28

PL-C11-117

DIFFERENT ROLES OF MMR PROTEINS DURING THE IMMUNE RESPONSE IN ARABIDOPSIS THALIANA

Ramos RS, Spampinato CP.

17:30-17:43

PL-C12-120

IMPROVEMENT OF STRESS TOLERANCE IN TOBACCO PLANTS BY EXPRESSING CYANOBACTERIAL FLV2-FLV4 PROTEINS

Vicino P, Carrillo JB, Gómez R, Carrillo N, Lodeyro AF

17:45-17:58

PL-C13-121

RESPONSE OF MSH6 MISMATCH REPAIR PROTEIN TO LIGHT SIGNALS

V. Gonzalez and C. Spampinato

18:00-18:13

PL-C14-153

COMPLETE CHLOROPLASTIC AND MITOCHONDRIAL GENOMES OF A NATIVE TREE SPECIES AND STRATEGIES TOWARD END-TO-END CHROMOSOMAL ASSEMBLY

Maximiliano Estravis-Barcala, Tomás Moyano, María Verónica Arana, Rodrigo A. Gutiérrez, Nicolás Bellora

16:30-18:30

SIGNAL TRANSDUCTION and STRUCTURAL BIOLOGY

Chairpersons: Vanesa Gottifredi - Eduardo Ceccarelli

16:30-16:43

ST-C01-56

ACTJK, A TWO-COMPONENT SYSTEM OF *ENSIFER MELILOTI* INVOLVED IN ACID TOLERANCE

Vacca C, Albicoro FJ, Cafiero JH, Draghi WO, Lagares A, Del Papa MF.

16:45-16:58

ST-C02-11

AN INEFFICIENT RESOLUTION OF UNDER-REPLICATED DNA IN MITOSIS TRIGGER GENOMIC INSTABILITY

Calzetta NL, González Besteiro MA , Gottifredi V

17:00-17:13

ST-C03-63

14-3-3 AND HIPPO PATHWAY PROTEINS UPREGULATION DURING ADIPOGENESIS OF 3T3-L1 CELLS INDUCTION WITH GLP-1 ANALOGS

Del Veliz Samanta, Uhart Marina, Bustos Diego M.

17:15-17:28

ST-C04-210

PHOSPHOLIPASE D (PLD) 1 AND 2 EXPRESSION IN ABC CELLS, A NEW RETINAL PIGMENT EPITHELIUM CELL LINE

Bermúdez V, Asatryan A, Mukherjee PK, Giusto NM, Bazan NG, Mateos MV

17:30-17:43

SB-C01-187

REVISITING CHICKEN EGG WHITE: A GLYCOPROTEOMIC APPROACH.

Cavallero, G., Couto, A., Landoni, M.

WEDNESDAY 4, 2020

14:00-16:00

ENZYMOLOGY

Chairpersons: Germán Rosano - Eduardo Ceccarelli

14:00-14:13

EN-C01-98

CHARACTERIZATION OF SdGA, A COLD-ADAPTED GLUCOAMYLASE FROM SACCHAROPHAGUS DEGRADANS

Wayllace NM, Hedin N, Busi MV, Gomez Casati DF

14:15-14:28

EN-C02-102

UNDERSTANDING CARBON METABOLISM IN GREEN ALGAE: CHARACTERIZATION OF *CHLAMYDOMONAS REINHARDTII* PEPCK

Torresi F., Gomez-Casati D., Martín M.

14:30-14:43

EN-C03-144

**DESING, SYNTHESIS, AND EVALUATION OF SUBSTRATE-ANALOGUE INHIBITORS
OF *T. CRUZI* RIBOSE 5-PHOSPHATE ISOMERASE TYPE B**

Gonzalez SN, Mills JJ, Maugeri D, Olaya C, Laguera BL, Enders JR, Sherman J, Rodriguez A, Pierce JG, Cazzulo JJ, and D'Antonio EL

14:45-14:58

EN-C04-207

**INSIGHTS IN THE NADP⁺ BINDING MODE OF BACTERIAL FERREDOXIN-NADP⁺
REDUCTASES**

Monchietti P, Ceccarelli EA, Catalano Dupuy DL

14:00-16:00

MICROBIOLOGY IV

Chairpersons: Estela Galván – Rodrigo Sieira

14:00-14:13

MI-C24-145

**FROM SEED ENDOPHYTES TO PLANT MICROBIOMES: SEED-BORN BACTERIA
THAT COLONIZE AERIAL TISSUES IN ALFALFA PLANTS**

Erdozain BSA, López JL, Zuber NE, Pagnutti AL, Lozano MJ, Lagares A.

14:15-14:28

MI-C25-147

**GENOME SEQUENCE, TAXONOMIC POSITION AND SYMBIOTIC GENES OF *Ensifer*
spp. THAT NODULATE *D. virgatus* IN NORTHWEST ARGENTINA**

Zuber NE², Fornasero LV, Erdozain BSA, López JL, Lozano MJ, Del Papa MF, Lagares A

14:30-14:43

MI-C26-152

**ENVIRONMENTAL BACTERIA FROM ARGENTINE PAMPAS WITH ABILITY TO
DEGRADE GLYPHOSATE**

Fiorella Masotti, Betiana S. Garavaglia, Ainelén Piazza, Natalia Gottig, and Jorgelina Ottado

14:45-14:58

MI-C27-162

**GETTING CLOSER TO THE UNDERSTANDING OF THE COPPER-RESISTANCE
MECHANISMS IN *Apotrichum loubieri* M12**

Bonilla JO, Callegari EA, Paez MD, Gil RA, Villegas LB

15:00-15:13

MI-C28-168

**ORF319, A *SALMONELLA* ANTIVIRULENCE FACTOR THAT CONTROLS BIOFILM
FORMATION**

Vitor Horen L, Echarren ML, Soncini FC.

15:15-15:28

MI-C29-186

**ANTIOXIDANT PEPTIDES RELEASED FROM SOYBEAN BY LACTIC ACID BACTERIA
WITH PROTEOLYTIC ACTIVITY**

Quiroga María, Babot Jaime Daniel, Bertani Milena, Argañaraz Martínez Eloy, Perez Chaia Adriana

15:30-15:43

MI-C30-197

PROTEOMIC AND PHYSIOLOGICAL CHARACTERIZATION OF COPPER EFFECT ON QUORUM SENSING REGULATION IN *PSEUDOMONAS CAPEFERRUM*

Laguina AC, Lacosegliaz M, Fernández PM, Castellanos de Figueroa LI, Nieto Peñalver CG.

16:30-18:30

CELL BIOLOGY III

Chairpersons: Graciela Boccacio – Javier Valdez Taubas

16:30-16:43

CB-C016-084

GUANINE QUADRUPLEXES AS POTENTIAL REGULATORY ELEMENTS OF THE SARS-COV-2 VIRUS

Bezzi G, Piga E, Armas P

16:45-16:58

CB-C017-086

EFFECTS OF GENETIC POLYMORPHISMS ON RNA GUANINE QUADRUPLEX AFFECTING THE TRANSLATION HUMAN ONCOGENS

Bezzi G, Piga E, Armas P

Instituto de Biología Molecular y Celular de Rosario (IBR) – CONICET-UNR.

17:00-17:13

CB-C018-185

INFLUENCE OF CIRCULAR TARGET RNA TOPOLOGY ON miRNA STABILITY AND FUNCTION

Fuchs Wightman F, Lukin J, Giusti S, Refojo D, De la Mata M

17:15-17:28

CB-C019-255

MOLECULAR AND PHENOTYPIC ANALYSES OF SULFITE TOLERANT *S. CEREVISIAE* STRAINS CARRYING WILD TYPE OR ABERRANT PROMOTERS OF THE SSU1 GENE

Raymond Eder ML, Bragato M, Rosa AL

17:30-17:43

CB-C020-284

AUGMENTED FERREDOXIN LEVELS IN TRANSPLASTOMIC TOBACCO PLANTS COUPLE ALTERNATIVE ELECTRON FLOW WITH ENDOGENOUS PHOTOPROTECTIVE MECHANISMS

Lobais C, Bilger W, Blanco NE

17:45-17:58

CB-C021-018

KNOCKDOWN OF THE CYTOCHROME P450 CYP4PR1 IN PYRETHROID-RESISTANT TRIATOMA INFESTANS INCREASES SUSCEPTIBILITY TO DELTAMETHRIN.

Dulbecco AB, Moriconi DE, Pedrini N.

18:00-18:13

NS-C02-096

DIFFERENTIAL GENE EXPRESSION TRIGGERED BY NEUROTOXIC INTOXICATION IN *TRIATOMA INFESTANS*, VECTOR OF CHAGAS DISEASE

Traverso L, Latorre-Estivalis J, Fronza G, Lobbia P, Mougarde-Cueto G, Ons S

16:30-18:30

MICROBIOLOGY V

Chairpersons: Rosana de Castro – Miriam Chalón

16:30-16:43

MI-C31-204

MECHANISMS ASSOCIATED WITH PROLINE METABOLISM AND REDOX BALANCE IN PEANUT MICROSYMBIOTNS EXPOSED TO WATER STRESS

Villa JF, Castro SM, Bianucci EC, Becker D, Furlan A

16:45-16:58

MI-C32-217

IN-DEPTH BIOINFORMATIC CRISPR RECONSTRUCTION FROM METAGENOMIC DATA DISCLOSE PHAGE-HOST EVOLUTION IN COMPLEX ENVIRONMENTS

Guerrero LD, Orellana E, Erijman L

17:00-17:13

MI-C33-229

HIGH POTENTIAL FOR THE BIOSYNTHESIS OF NEUTRAL LIPID STORAGE COMPOUNDS IN CHRONICALLY-POLLUTED SUBANTARCTIC SEDIMENTS

Galván V, Pascutti F, Sandoval N, Lanfranconi M, Arabolaza A, Álvarez H, Gramajo H, Dionisi HM

17:15-17:28

MI-C34-230

RECONSTRUCTING NEUTRAL-LIPIDS METABOLIC PATHWAYS OF A METAGENOMIC DATASET FROM USHUAIA BAY SEDIMENTS

Pascutti F≈, Sandoval N≈, Galván V≈, Lanfranconi M, Arabolaza A, Álvarez H, Gramajo H, Dionisi HM≈Contributed equally to this work

17:30-17:43

MI-C35-241

IMPACT OF ALTERNATIVE GRAPE MUSTS ON THE GROWTH OF INDIGENOUS NON-SACCHAROMYCES YEASTS

María Laura Raymond Eder and Alberto Luis Rosa

17:45-17:58

MI-C36-264

IS *ESCHERICHIA COLI* AN UNDERESTIMATED PATHOGEN IN CYSTIC FIBROSIS?

León, B; Casco, D; Leguizamón, M.; Serra, D.; Vita, C.; Zegarra Borlando, F; Bettoli, M.; D'Alessandro, V.; Rentería, F.; Bosch, A¹; Yantorno, O

18:00-18:13

MI-C37-268

INSIGHTS INTO THE ROLE OF A PLASMID-BORNE TYPE I SECRETION SYSTEM (RssDM) OF RHIZOBIUM LEGUMINOSARUM

Russo, Daniela Marta; Downie J. Allan and Zorreguieta Angeles

16:30-18:30

PLANTS III

Chairpersons: Eliana Marzol – José Estévez

16:30-16:43

PL-C15-179

R. solanacearum A21 BIOCONTROL BY THE ENDOPHYTIC BACTERIA

G. diazotrophicus Pal5 IN RIO GRANDE TOMATO CULTIVAR.

Srebot MS, Julieta Gallozo, Tano J, Carrau A, Ripa MB, Bettucci GR, Martínez ML, Rodriguez MV, Orellano Elena G.

16:45-16:58

PL-C16-181

THE DNA GLYCOSYLASE ATMBD4L CONTROLS FLC EXPRESSION AND FLOWERING TIME IN ARABIDOPSIS THALIANA

Lescano CI; Nota MF; Álvarez ME

17:00-17:13

PL-C17-190

ELUCIDATING THE VIRAL MOVEMENT: THE ROLE OF ADV-P3 PROTEIN

Jaime CL, Sgro GG, Gieco JO, Farah CS, Dunger G

17:15-17:28

PL-C18-192

FIRST EVIDENCE OF IN VIVO DNA GLYCOSYLASE ACTIVITY OF THE ARABIDOPSIS AtMBD4L ENZYME

Torres JR, Lescano CI, and Alvarez ME

17:30-17:43

PL-C19-224

BNT1 IMMUNE RECEPTOR ALTERNATIVE SPLICED VARIANTS: POTENTIAL ROLE(S) IN PLASTID RESPONSES

Peppino Margutti M, Alvarez ME, Cecchini NM.

17:45-17:58

PL-C20-287

LOCAL NECROTIC SYMPTOMS ON TNVA-INOCULATED TOBACCO LEAF DOES NOT SUPPRESS SYSTEMIC SPREAD OF VIRUS INFECTION

García L, Martin AP, Martínez MF and Marano MR

18:00-18:13

PL-C21-267

THE STORY OF HaHB11: HOW TO BE A CROP AND NOT DIE IN THE ATTEMPT

Raineri J, Caraballo L, Franco M, Otegui ME, Chan RL

lipid storage compounds in intertidal sediments polluted with aliphatic and polycyclic aromatic hydrocarbons, retrieved near a pier of a fuel storage facility. Homolog sequences of the key enzyme for WE and TAG biosynthesis, the wax ester synthase/acyl-CoA diacylglycerol acyltransferase (WS/DGAT), were identified in a metagenomic dataset from sediments of this site. Out of the 682,972 protein coding sequences of the dataset, 166 contained the wax ester synthase-like Acyl-CoA acyltransferase pfam domain commonly used to identify this enzyme (PF03007, E-value $\leq 10^{-5}$), the 74% of them full-length. A WS/DGAT C-terminal domain (PF06974) was also detected in the majority of the sequences. The relative abundance of WS/DGAT homolog sequences in the dataset was 1.42 ± 0.18 times the number of sequences of single-copy genes coding for ribosomal proteins (average \pm standard deviation of 12 genes), suggesting a high prevalence of WE/TAG biosynthesis potential in the microbial community. Sequences were highly diverse, as 108 and 44 clusters were recovered using distance thresholds of 80% and 40% identity at the amino acid level, respectively. Furthermore, 64% of the putative enzymes shared low to moderate identity values with WS/DGAT homologs identified in bacterial genomes, indicating the presence of novel organisms with WE/TAG biosynthesis potential in the sediments. The taxonomic assignment of scaffolds containing WS/DGAT homologs (1 to 43.4 Kb, N50 = 35 Kb) indicated that members of the Actinobacteria (46 %), Proteobacteria (33 %), Bacteroidetes (3 %) and Acidobacteria (1 %) phyla could be the origin of the majority of the scaffolds, while 17% of them could only be assigned to Bacteria. These results suggest the presence of phylogenetically diverse and abundant microbial populations with the potential to biosynthesize neutral lipid storage compounds in intertidal sediments of this polluted site. This study is the starting point for more in-depth analyses of these metagenomic fragments, in order to increase our understanding of the mechanisms used by these diverse bacterial populations to adapt to environmental stressors in this extreme environment.

MI-C34-230

RECONSTRUCTING NEUTRAL-LIPIDS METABOLIC PATHWAYS OF A METAGENOMIC DATASET FROM USHUAIA BAY SEDIMENTS

Pascutti F^{1,2}, Sandoval N^{2,3}, Galván V^{1,2}, Lanfranconi M², Arabolaza A¹, Álvarez H², Gramajo H¹, Dionisi HM³

¹Instituto de Biología Molecular y Celular de Rosario (IBR - CONICET) FBIOyF-UNR, ²Instituto de Biociencias de la Patagonia (INBIO-UNPSJB-CONICET), ³Centro para el Estudio de Sistemas Marinos (CESIMAR-CONICET). ^{2,3}Contributed equally to this work

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Bacterial production of neutral lipids such as triacylglycerides, wax-esters and polyhydroxyalcanoates (TAG, WE and PHA-B, respectively) has been reported in *Gammaproteobacteria* and *Actinobacteria*. Within them, there is a short list of microorganisms with an in-depth study of the metabolic route involved in the synthesis of these compounds. To increase our knowledge of the potential of sediment bacteria in relation to this process, we analyzed homolog sequences of the key enzyme involved in TAG biosynthesis, the wax synthase/diacylglycerol acyltransferase (WS/DGAT), from a metagenomic dataset of a chronically-polluted Subantarctic coastal environment, and their genomic context. Almost half of putative WS/DGAT sequences were related to those identified in genomes from members of the *Actinobacteria* phylum, mainly from the *Acidimicrobiia*, *Actinobacteria* and *Nitriliruptoria* classes, while 34% of the sequences shared higher identity values with WS/DGAT homologs from Proteobacteria (*Gammaproteobacteria*, followed by *Alpha*-, *Beta*- and *Deltaproteobacteria*). Phylogenetic analyses showed that most metagenomic sequences were more closely related to sequences from genomes assembled from metagenomes, generated from environmental samples collected worldwide, including seawater, marine sediments, groundwater, seashore sand and freshwater, as well as biological wastewater treatment plants. Gene clusters potentially related to neutral lipid biosynthesis pathways were identified in scaffolds of the metagenomic dataset containing putative WS/DGAT sequences. A number of scaffolds shared highly similar genetic arrangements with genome fragments from a variety of organisms. Among them, some loci included genes that potentially encode other steps in neutral lipid biosynthesis, such as putative Type-2 PAPs and HAD-type hydrolases, glycerol- and acylglycerol-phosphate *O*-acyltransferases. In Proteobacteria, the gene clusters presented novel distributions of genes involved in TAG, WE and/or PHA, suggesting that they are intertwined. Most scaffolds contained genes from related metabolic pathways, such as fatty-acids metabolism and its regulation, implying that recycling of carbon might drive the flux to one or another neutral lipid synthesis. In addition, genes encoding osmoregulated periplasmic transporters for uptake of organic acids were present, revealing how the environment could also be influencing the studied process. This work is a pioneer study on the diversity of neutral lipid metabolic routes present in sediment bacteria based on metagenomic data. It enriches our knowledge of the metabolic potential of these microbial communities in relation to a process with an inherent biotechnological interest.

MI-C35-241

IMPACT OF ALTERNATIVE GRAPE MUSTS ON THE GROWTH OF INDIGENOUS NON-SACCHAROMYCES YEASTS

María Laura Raymond Eder¹ and Alberto Luis Rosa¹

¹IRNASUS-CONICET, Facultad de Ciencias Químicas, Universidad Católica de Córdoba. Argentina.

marialraymond@hotmail.com

Spontaneous fermentations of must from Isabella (*Vitis labrusca* L.) grapes, harvested from Colonia Caroya vineyards, show ethanol contents ~1% (v/v) lower than expected from their initial concentration of total reducing sugars. This phenomenon,