



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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Universidad Nacional de La Plata

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Secretary

Departamento de Ciencia y Tecnología
Universidad Nacional de Quilmes

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Treasurer

Instituto de Investigaciones en Biodiversidad y Biotecnología
(INBIOTEC-CONICET)
Universidad Nacional de Mar del Plata

Laura Raiger Iustman

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Naturales
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Universidad de Buenos Aires

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 Véscovi - 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

Fernado 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)
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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 E, Quirós N, Mayorga LS

14:15-14:28

CB-C02-054

CSP DRIVES TRANS SNARE ASSEMBLY DURING ACROSOMAL EXOCYTOSIS

Flores Montero K, Berberían 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-Barrío 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 Studert

16:30-16:43

BT-C01-27

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

María 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

LYOPHIRES 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, Mozzi 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 *PICHTIA 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 *Paraboeremia* 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

Machinandiaarena, 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. Mozzi

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 Arbilla 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**

*Gomez Mansur NM, Recalde L, De Diego N, Spíchal L, Cavar S, Pěňčík 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

ENZYMOLGY

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

DESIGN, 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 *Apiotrichum 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*

Leguina 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 *TRIAMOMA INFESTANS*, VECTOR OF CHAGAS DISEASE

Traverso L, Latorre-Estivalis J, Fronza G, Lobbia P, Mougabure-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 MICROSymbionTS 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; Bettioli, 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, Rodríguez 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, Gioco 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, Martín 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

The increasing metal wastewater contamination has promoted the search for new sustainable and environmentally friendly procedures for metal removal, such as biological treatment processes based on biosorption and bioaccumulation. Some bacteria accumulate on their external surface extracellular polymeric substances (EPS) that protect the cell against the polluted environment. *Pseudomonas veronii* 2E is an autochthonous bacterium isolated from sediments associated with the Reconquista River basin that is able to retain Cd(II), Zn(II) and Cu(II) from aqueous systems, to biotransform Cr(VI) to Cr(III) and to develop biofilm in different matrices. Moreover, the capacity of the whole EPS and its major polysaccharides fraction (PF) to complex Cd(II) was evidence by anodic stripping voltammetry studies. Among the PF, a lipopolysaccharide fraction and an exopolysaccharide fraction (ExP) were recovered and also showed metal-binding capacity, suggesting a potential use for the biotreatment of electroplating effluents. Recently, FTIR in combination with a multivariate statistical analysis allowed to study the interaction of the functional groups present in the whole *Pseudomonas veronii* 2E cells, including bound extracellular polymeric substances and cell wall with Cd(II), Cu(II) and Zn(II). In this context, the chemical structure characterization of the exopolysaccharide fraction and the evaluation of metal-complexation capacity are important to understand the role of this components as a potential tool for metal biotreatment. In this study, the purified ExP was subjected to an anion-exchange chromatography on a DEAE-Sepharose Fast-flow column. Thus, four different polysaccharides were isolated (P1-P4), being the most abundant P2 which was obtained from the fraction eluted with 0,2 M NaCl. Total hydrolyzed P1-P4 polysaccharides were subjected to high-performance anion exchange chromatography showing different monosaccharide pattern. Then, the ability for heavy metal biosorption of *Pseudomonas veronii* 2E biopolymers was evaluated with the whole ExP and with the isolated P2 polysaccharide. In all cases, the biosorption capacity “q” obtained for ExP presented lower values than for the pure P2 although they were in the range of other polysaccharides described as biosorbents. Notably, the highest removal efficiency was 70% for Fe(II) by P2 polysaccharide. Taking into account these results, we performed a detailed morphological, chemical, infrared, mass and magnetic resonance spectrometry studies of P2. As a result, an acid highly branched heteropolysaccharide with a molecular weight of 175 kDa and with a regular and porous morphology was characterized. The presence of the acidic disaccharide α -D-GlcpA-(1-3)-L-Fucp as a branch unit in P2 polysaccharide may explain the described metal-binding ability and these structural features could provide an approach for potential bioremediation applications.

MI-P32-174

EXPRESSION OF NITRIC OXIDE SYNTHASES FROM PHOTOSYNTHETIC MICROORGANISMS IMPROVES GROWTH AND STRESS TOLERANCE IN *E. coli*

Correa-Aragunde N, Nejamins A, Del Castello F, Foresi N, Lamattina L

Instituto de Investigaciones Biológicas-CONICET, Universidad Nacional de Mar del Plata, CC1245, 7600-Mar del Plata

E-mail: lolama@mdp.edu.ar

Nitric oxide synthase (NOS) catalyzes the oxidation of the substrate L-Arginine (Arg) to produce citrulline and nitric oxide (NO). We have characterized NOS from two photosynthetic microorganisms: the NOS from the alga *Ostreococcus tauri* (OtNOS) and the cyanobacteria *Synechococcus* PCC 7335 (SyNOS). OtNOS and SyNOS possess distinct biochemical properties. OtNOS is a canonical NOS similar to animal NOS with an ultrafast NO producing activity. On the contrary, an extra globin domain present in SyNOS enzyme oxidizes over 70 % of the NO-produced to nitrate (NO₃⁻). Here we describe the expression of recombinant OtNOS and SyNOS in *Escherichia coli* BL12 strain and analyze bacterial growth and tolerance to nitrosative stress. Results show that the *E. coli* cultures expressing OtNOS and SyNOS reach a higher OD at the exponential phase with respect to bacteria transformed with the empty vector (EV). This result correlates with higher NOS protein levels assayed by immunoblot, total protein and nitrate content in NOS recombinant strain cultures. Moreover, the expression of SyNOS and at less extent of OtNOS confers the ability to grow in minimal medium with Arg as a sole N source (and plenty C-source), suggesting that NOS enzymes are active in *E. coli*. The high NO producing activity reported in OtNOS correlates with the flavohemoglobin *hmp* induction in *E. coli* strain expressing OtNOS, suggesting that this strain senses nitrosative stress. Furthermore, nitrosative stress generated by the addition of 1 mM of the NO donor sodium nitroprusside (SNP) reduced growth rate (0.4-fold respect to no SNP addition) in bacterial culture expressing EV. However, the expression of recombinant OtNOS and at less extent SyNOS, attenuated SNP toxicity (0.8- and 0.6-fold, respectively, compared to no SNP addition). *E. coli* does not synthesize the major NOS cofactor tetrahydrobiopterin (BH₄). Bioinformatics tools and ligand docking analysis were used to provide evidence supporting tetrahydromapterin (MH₄) as a possible pterin cofactor required for NOS catalytic activity in *E. coli*. These results open an exciting new window about the versatility of pterin cofactor working in the different NOSs dispersed in distant organisms along the life tree. In summary, our results show that NOS from photosynthetic microorganisms increases the growth and confers nitrosative stress tolerance in *E. coli*.

Supported by AGENCIA, CONICET and UNMdP

MI-P33-177

DIAGRAMMATIC SCALE OF SEVERITY FOR WHITE THREAD BLIGHT DISEASE IN YERBA MATE (*Ilex paraguariensis* SAINT HILAIRE)

Vereschuk ML, Domínguez FG, Alvarenga AE, Zapata PD

Laboratorio de biotecnología molecular. Instituto de Biotecnología Misiones “Dra. María Ebe Reza”. (InBioMis). Facultad de Cs. Exactas, Qcas. y Naturales, Univ. Nacional de Misiones. CONICET.

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