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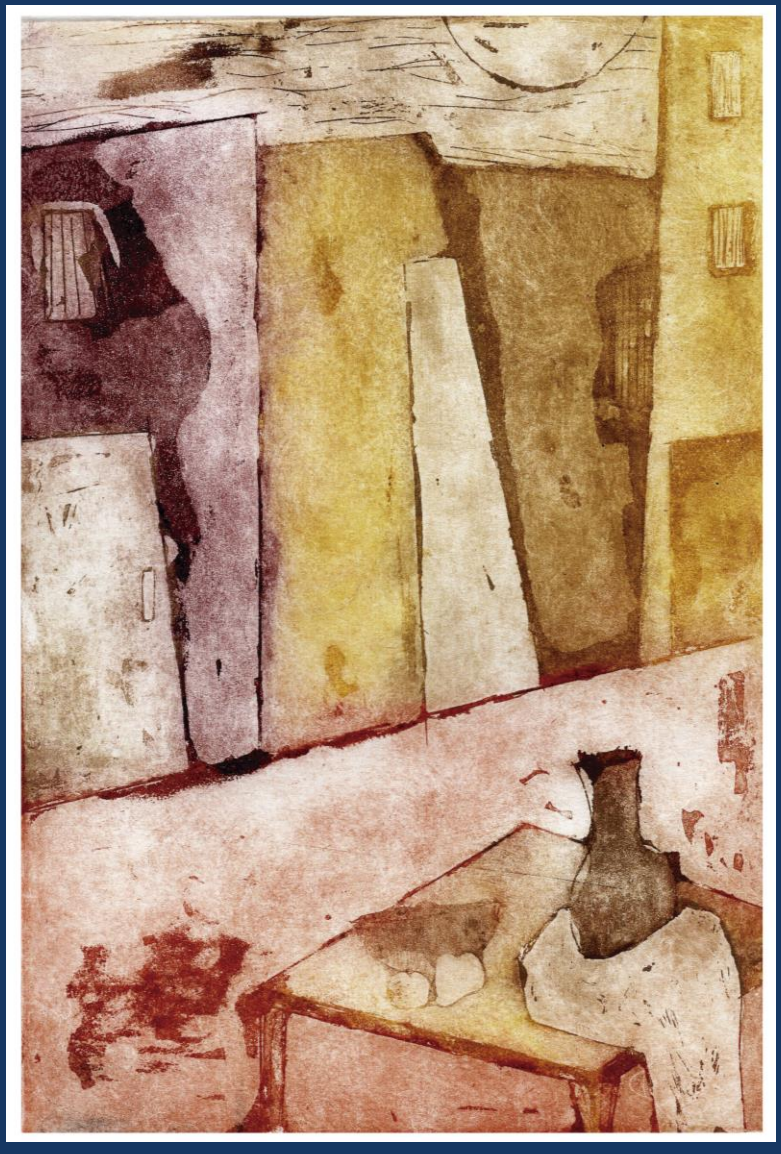

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La Tapa (*Ver* pág. 4)
Atardecer en la tarde
Antonella Ricagni

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LXIV Reunión Anual de la
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LI Reunión Anual de la
Asociación Argentina de Farmacología Experimental (SAFE)

XXI Reunión Anual de la
Sociedad Argentina de Biología (SAB)

XXXI Reunión Anual de la
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IX Reunión Anual de la
Asociación Argentina de Nanomedicinas
(NANOMED-ar)

VI Reunión Científica Regional de la Asociación Argentina
de Ciencia y Tecnología de Animales de Laboratorio
(AACyTAL)

con la participación de
The Histochemical Society

13 - 16 de noviembre de 2019
Hotel 13 de Julio - Mar del Plata

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LXIV Annual Meeting of
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(NANOMED-ar)

VI Regional Scientific Meeting of Asociación Argentina
de Ciencia y Tecnología de Animales de Laboratorio
(AACyTAL)

with the participation of
The Histochemical Society

November 13th – 16th, 2019
Hotel 13 de Julio - Mar del Plata

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LA TAPA

Antonella Ricagni. **Atardecer en la calle**

Técnica: Aguatinta /aguafuerte. Año 2011. Medidas: 21 x 29 cm. Gentileza del autor.

Antonella Ricagni es Licenciada en Artes Visuales, con orientación en Grabado. Ha ejercido la docencia en Artes Plásticas en el nivel primario. Trabajó en varios museos como orientadora de sala y tallerista. Es escenógrafa egresada de la Escuela Metropolitana de Arte Dramático (EMAD). Ha realizado una residencia artística en México especializada en Xilografía.

Actualmente es docente en la materia Ilustración, en la carrera de Diseño Gráfico en la Facultad de Arquitectura, Diseño y Urbanismo, Universidad de Buenos Aires, y en Plástica y Tecnología en varias instituciones educativas en la ciudad de Buenos Aires.

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were statistically analyzed by one way ANOVA and Bonferroni as a post-hoc test ($p<0.05$). The results suggested that the presence of Ca^{++} in the manipulation medium increased sperm cells adhesion to hydrogel surfaces and the absence of this cation released the cells of the PNIPAM co-APTA 15 % surfaces. In addition, it was found that the hydrogel did not cause any alteration on the sperm viability, compared to the initial semen sample. These results suggest that the presence of calcium in sperm manipulation medium affect pig spermatozoa binding and release to PNIPAM co-APTA 15 % hydrogel surfaces.

0791 - MOLECULAR DETECTION OF BEE PATHOGENS IN HONEY

Martín EGUARAS | **Gregorio FERNÁNDEZ DE LANDA** | Giselle FUENTES | Sandra FUSELLI | Carolina GARCÍA IZA | Sandra MEDICCI | Eugenia OLIVERA | Santiago PLISCHUK | Silvina QUINTANA | Pablo REVAINERA | Sergio RUFFINENGO

CONICET

Honey bees have a wide variety of parasites and pathogens associated with their nests. One of them, the causative agent of the American foulbrood, Paenibacillus larvae, was previously found in bee honey. Considering that other spore-forming microorganisms are expected to remain latent in honey, the presence of, at least, microsporidia, spore- forming bacteria, and viruses protected by peptide structures might represent a threat. Parasites and pathogens that affect honey bees health seem to play a major role in the worldwide decline of pollinators, therefore their detection in honey could be used to prevent the spread of diseases among colonies. Honey from 57 apiaries located in Buenos Aires, Córdoba, Corrientes, Entre Ríos, Formosa, La Rioja, Neuquén, Río Negro and Santa Fe was collected between March and October, 2012. DNA was extracted from pollen obtained by centrifugation of 10 g. of honey samples and amplified by qPCR. PCR products were purified, sequenced and analysed using BLAST software. Honey from every apiary contained DNA of at least one pathogen, with a high occurrence of Apis mellifera Filamentous Virus (96.5 %) and the neogregarine Apicystis bombi (75.5 %). A lower proportion of samples were positive for Nosema ceranae (51 %), P. larvae (44 %), and Ascosphaera apis (28 %). Here, we report the presence of DNA of several bee pathogens in honey from commercial apiaries, and provide a fast and efficient screening method that could be useful to estimate pathogen presence in apiaries.

0802 - VALIDATION OF A FAST AND SIMPLE DIAGNOSTIC KIT FOR HLB CAUSAL AGENT DETECTION

Fabiana STOLOWICZ(1)* | Luciana LAROCCA(1)* | Santiago WERBAJH(1) | | Juan Pedro AGOSTINI(2) | Jonathan REDES(2) | Carolina CARRILLO(1) | **Adrián VOJNOV** (1)

INSTITUTO DE CIENCIA Y TECNOLOGÍA "DR. CESAR MILSTEIN" (1); ESTACIÓN EXPERIMENTAL AGROPECUARIA - INTA MONTECARLO (2)

The Huanglongbing (HLB), is the most devastating disease in citrus worldwide, due to the damage it causes, the difficulty of diagnosis and the speed of its expansion. The causal pathogen, Candidatus Liberibacter spp (Ca. L), is transmitted by the insect Diaphorina citri. The species Ca. L asiaticus has been detected in Argentina, and the vector distributed at least in nine provinces. Since 2010, the Argentinian National Service for Health and Agro-Food Quality (SENASA), has implemented a National HLB Prevention Program to safeguard productivity in this important sector. Nowadays, HLB diagnosis is performed by PCR, nested PCR, real time PCR or some combination of them, requiring purified genomic DNA, sophisticated equipment and qualified human resources. The aim of this study was to evaluate the performance of a sensible, fast and simple diagnosis test based on specific DNA isothermal amplification of Ca. L asiaticus by comparison with PCR and qPCR, considered the Gold standard methods to HLB diagnosis. We applied the test in a group of samples whose true disease status was defined by the mentioned gold standard techniques. Analyzing the results by a 2 x 2 contingency table, we determined Sensitivity and Specificity of the test, and the positive and negative predictive values (PPV and NPV). In a first test, 30 DNA samples were analyzed and compared with qPCR technique with a concordance in 28 samples (PPV and NPV of 100 and 88.88 %, respectively). Adjusting test parameters of reading out, 23 new samples consisting on midribs and purified genomic DNA from uninfected or Ca. L. asiaticus infected plant lines were analyzed in a blind assay comparing with PCR/nested PCR applied by the Molecular Laboratory of the EEA Montecarlo (INTA), obtaining 100% of concordance (PPV and NPV, both 100%). The results obtained in the present study demonstrated a high quality of our diagnostic test, with low cost, making it a valid and useful tool to support the diagnosis of HLB disease.

*The authors contributed equally to this work.

0924 - EFFECTS OF IONIC DISSOLUTION PRODUCTS FROM BIOACTIVE GLASS-CERAMIC SCAFFOLDS ON THE CELLULAR AND MOLECULAR RESPONSE OF ENDOTHELIAL CELLS AND FIBROBLASTS UNDER HYPERGLYCEMIA

Luis Alberto HARO DURAND (1) | Maria Alejandra FANOVICH(2) | Aldo Rubén BOCCACCINI(3) | Alejandro GORUSTOVICH(4)

LABORATORIO DE PATOLOGÍA Y FARMACOLOGÍA MOLECULAR, IBYME-CONICET (1); INSTITUTO DE INVESTIGACIONES EN CIENCIA Y TECNOLOGÍA DE MATERIALES (2); INSTITUTE OF BIOMATERIALS, UNIVERSITY OF ERLANGEN-NUREMBERG (3); GRUPO INTERDISCIPLINARIO EN MATERIALES IESIING-UCASAL INTECIN UBA-CONICET (4)

Several aspects of tissue repair are altered in diabetes mellitus (DM) i.e., endothelial cells and fibroblasts are affected by cellular dysfunction in a hyperglycemic (HG) environment. Thus, it is of biomedical interest to study different therapeutic strategies to optimize the repair and/or regeneration of tissues under HG conditions. The aim of this work was to study the cellular and molecular response of ionic dissolution products (IDPs) released from 3D porous bioactive glass-ceramic scaffolds manufactured from a 45S5 glass (% w/w composition: 45 % SiO_2, 24.5 % Na_2O, 24.5 % CaO, and 6 % P_2O_5) added with 2 % of B_2O_3 (45S5.2B) in primary cultures of dermal fibroblasts (DFs) and endothelial cells (ECs) grown in HG (30 mM D-glucose). The results showed that IDPs from the 45S5.2B scaffolds positively modulate the in vitro proliferative and migratory response in both ECs and DFs grown under HG in comparison with controls. Further, IDPs improve the ability of ECs to form tubules in vitro. The supernatant from DFs grown in HG during 7 d and post-stimulated with IDPs for 2 d, showed significantly higher levels of secretory VEGF and it was able to increase the proliferative response of ECs. On the other hand, the IDPs from 45S5.2B were able to modulate key cellular signaling pathways altered in HG conditions. This was corroborated by changes in the phosphorylation status of MEK/ERK1/2, JNK/p38, PI3K/AKT, and a significant increase of relative levels of SIRT-1 and Nrf-2. Additionally, IDPs modulated the expression levels of procaspase 3/caspase 3, Bax and Bcl-2. These findings may be relevant in regenerative medicine since 45S5.2B scaffolds could act as inorganic agents that positively modulate the cellular and molecular response thus promoting processes of tissue repair and/or regeneration in patients with DM.

Gastroenterología / Gastroenterology

Chairs: Cristina Carrillo | María Laura Ruiz

0314 - SYNERGISTIC ANTITUMORAL EFFECT OF COMBINED GEMCITABINE WITH CATECHOL-RUTINOSIDE BY INHIBITING DCLK1 EXPRESSION IN PANCREATIC CANCER