CUYO BIOLOGY SOCIETY
XXI Annual Scientific Meeting

BIOCELL

Foundational Meeting of the
ARGENTINE MICROSCOPY SOCIETY

SOCIEDAD DE BIOLOGÍA DE CUYO
XXI Reunión Científica Anual

BIOCELL

Reunión Fundacional de la
SOCIEDAD ARGENTINA DE MICROSCOPIA

December 3 – 6, 2003
CICUNC - Main Campus
Cuyo National University
Mendoza - Argentina
ORGANIZING COMMITTEE

Biology Society of Cuyo

Past Committee

President: Saraví, F. D.
Vice-President: Ojeda, M. S.
Secretary: Arenas, G. N.
Treasurer: Fernández, R. A.

Present Committee

President: Ojeda, M. S.
Vice-President: Fornés, M. W.
Secretary: Alvarez, S.
Treasurer: Fuentes, L.

Committee of the Foundational Meeting of the Argentinean Microscopy Society (SAMIC)

President: Piezzi, R. S.

Committee: Cavichia, J.C.
de Rosas, J.C.
Fernández, R. A.
Fornés, M. W.
Lovey, F.
Manucha, W. A. F.
Mayorga, L. S.
Ojeda, M. S.
Saraví, F. D.
Versaci, R.
OPENING REMARKS

Mendoza, Argentina, December 2003.

Dear colleagues:

This meeting has been organized in order to celebrate two important events. On one hand, we have the tenth anniversary of the Journal BIOCELL. On the other hand, the foundation of the Sociedad Argentina de Microscopía (SAMIC). These events will be held in the context of the twenty first annual scientific meeting of the Sociedad de Biología de Cuyo, a regional forum of academic exchanges.

BIOCELL was originally published under the name "Revista de Microscopía Electrónica", the official organ of the Sociedad Latinoamericana de Microscopía Electrónica (SLAME). A new design for the journal, then entitled "Microscopía Electrónica y Biología Celular" appeared after a Congress held in Mendoza in 1978. This scientific journal was published, from 1982 to 1992, as the official organ of the scientific societies "Latinoamericana de Microscopía Electrónica" (SLAME) and "Iberoamericana de Biología Celular" (SIABC). In 1993 the journal changed its name to "BIOCELL" and began to be issued from Mendoza, Argentina. Currently BIOCELL has new digital and electronic versions. It has been incorporated to the ScELO/Argentina project, which will be internationally available on line in the near future.

Up to the present, the journal has published 236 original articles, 10 reviews, 16 brief notes and 16 minireviews, mainly about structural and functional biology, development, molecular and cellular biology, histo- and immunocytochemistry, and vegetal and genetic cytology. Additionally, BIOCELL has published the scientific proceedings of a number of regional and national societies. Thus far a total of 4,223 abstracts from symposia, conferences and communications have been published.

BIOCELL has demonstrated continuity, maintaining high quality standards both in form and contents, with a strict reviewing policy. Its printed version has reached international diffusion and fostered scientific exchange. The prestige attained by this journal has been recognized by international indexing services as an outstanding example of high scientific publication quality in Latin America.

With regard to the second event, we are celebrating the foundation of the Argentine Society of Microscopy, it should be remembered that light, electron, and confocal microscopy, are powerful tools to answer questions and to solve problems both in biology (human, animal and plant) and in materials science. Many researchers have developed their scientific work around, or closely linked to, the use of different microscopic techniques. This body of scientists, remarkable for its diversity and number, has been invited to gather at the "Sociedad Argentina de Microscopía". In this meeting, the statutes of the society will be discussed and hopefully approved, and its first committee will be appointed.

Mendoza gave birth to the current Cuyo Biology Society in 1973 and to BIOCELL in 1993. Today, in December 2003, Mendoza will become the foundational seat of the new society. Thus SAMIC will contribute other societies of microscopy already in operation in the region to the development of this field in Latin America. In this way the network of colleagues and friends will be strengthened on a continental and international basis.

As a final wish, we hope that your stay in our city and your participation in this event will be unforgettable.

The organizing committee.
## Meeting Timetable

<table>
<thead>
<tr>
<th>Time</th>
<th>Wednesday, December 3</th>
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<th>Thursday, December 4</th>
<th>Time</th>
<th>Friday, December 5</th>
<th>Time</th>
<th>Saturday, December 6</th>
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<tbody>
<tr>
<td>8:30 to 9:50</td>
<td><strong>Poster Session I: 1-33</strong></td>
<td>8:30 to 9:50</td>
<td><strong>Poster Session III: 64-93</strong></td>
<td>8:30 to 9:50</td>
<td><strong>Poster Session IV: 54-115</strong></td>
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<tr>
<td>10:00 to 12:00</td>
<td>Central Auditorium Symposium II: &quot;BIOLOGY OF REPRODUCTION&quot;.</td>
<td>10:00 to 12:00</td>
<td>Central Auditorium Symposium IV: &quot;INTRACELLULAR MICROORGANISMS AND THE HOST CELL&quot;.</td>
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<td>12:15 to 13:00</td>
<td>Central Auditorium Plenary Lecture I: &quot;CHEMOTACTIC FACTORS INVOLVED IN MIGRATION OF NEURAL CREST CELLS&quot;. Dr. Roberto Rovasio Córdoba, Argentina</td>
<td>12:15 to 13:00</td>
<td>Central Auditorium Plenary Lecture III: &quot;HEAT SHOCK PROTEINS: FROM BASIC RESEARCH TO THE CLINIC&quot;. Dr. Daniel Ciocca Mendoza, Argentina</td>
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<td>Central Auditorium Plenary Lecture IV: &quot;NOVEL SIGNAL TRANSDUCTION MECHANISMS FOR ANGIOTENSIN II RECEPTORS&quot;. Dr. Gladys Ciuffo. San Luis, Argentina</td>
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<td>14:00 to 16:00</td>
<td><strong>Registration</strong></td>
<td>14:00 to 16:00</td>
<td>Central Auditorium Symposium III: &quot;EVOLUTIONARY AND PHYLOGENETIC STUDIES ON THE GENUS Solanum&quot;.</td>
<td>14:00 to 16:00</td>
<td>Central Auditorium Symposium V: &quot;UPDATE OF STUDIES ON Trypanosoma cruzi DISEASE&quot;.</td>
<td>14:00 to 16:00</td>
<td>Central Auditorium Mini workshop: &quot;MICROSCOPY IN MATERIAL SCIENCES&quot;.</td>
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<td>16:00</td>
<td>Central Auditorium Opening ceremony: Words of welcome. Choral performance</td>
<td>16:00</td>
<td>Central Auditorium Plenary Lecture II: &quot;MAST CELL: A SUPPORTIVE PROINFLAMMATORY STIMULUS IN CERVICO-UTERINE CANCER&quot;. Dr. Isolde Rudolph Geise Concepción, Chile</td>
<td>16:00</td>
<td>Central Auditorium Plenary Lecture IV: &quot;THYROID DISFUNCTIONS AND FEMALE REPRODUCTION&quot;. Dr. Graciela Jahn Mendoza, Argentina</td>
<td>16:00</td>
<td>Central Auditorium Foundation SAMIC Lecture Chairperson: Dr. Wanderly de Souza Speaker: &quot;ELECTRON BACKSCATTERING DIFFRACTION (EBSD): CRYSTALLOGRAPHY IN THE SEM&quot;. Dr. Aylwin Eades Bethlehem, USA</td>
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<td>16:30 to 17:30</td>
<td>Opening Conference: &quot;GENETICS: FIFTY YEARS OF ADVANCES&quot;. Medical School Dean Dr. Norma Magnelli</td>
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<td>17:30 to 19:30</td>
<td>Central Auditorium Symposium I: &quot;BIOACTIVE NATURAL PLANT PRODUCTS FROM THE CUYO REGION&quot;</td>
<td>18:30 to 20:00</td>
<td><strong>Poster Session II: 34-63</strong> Lobby</td>
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SCIENTIFIC PROGRAM

Wednesday, December 3

14:00 – 16:00  
Registration

16:00  
Opening:

- Opening statement
- CRICYT’s Choir performance

16:30 – 17:30  
Opening Conference:  
“GENETICS: FIFTY YEARS OF ADVANCES”.  
Dr. Norma C. Magnelli. Medical School Dean, Facultad de  
Ciencias Médicas, Universidad Nacional de Cuyo, Mendoza, Argentina.

17:30 – 19:30  
Symposium I:  
"BIOACTIVE NATURAL PLANT PRODUCTS FROM THE CUYO REGION".  
Chairperson: Giordano OS

17:30 – 17:55  
BIOACTIVITY AND CHEMOTAXONOMY OF SOME SPECIES OF  
PLANTS FROM THE CUYO REGION.  
Giordano OS. INTEQUI-CONICET. Area Quím, Fac Quím Bioquím  
Farm, Univ Nac San Luis, Argentina.

18:00 – 18:25  
INHIBITION OF MAST CELL DEGRANULATION BY  
DEHYDROLEUCODINE, A SESQUITERPENE LACTONE WITH  
POTENT ANTIULCER ACTIVITY.  
Penissi AB. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo,  
Mendoza, Argentina.

18:30 – 18:55  
EFFECT OF SESQUITERPENIC LACTONES ON HUMAN  
SPERM MOTILITY: EVIDENCE REGARDING A POSSIBLE ROLE  
FOR MICHAEL’S ADDITION REACTIONS.  
Yunes R. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo,  
Mendoza, Argentina.

19:00 – 19:25  
EFFECT OF DEHYDROLEUCODINE IN CELL PROLIFERATION.  
Lopez ME. Lab Cytoeskel Cell Cycle. IHEM, Univ Nac Cuyo,  
Mendoza, Argentina.

Thursday, December 4
8:30 - 9:50  **Posters Session I.**
Number 1-33. Authors’ name beginning with A to C (Ch included)

10:00 - 12:00  **Symposium II:**
"BIOLOGY OF REPRODUCTION".
Chairperson: Cavicchia JC

10:00 – 10:20  **THE EVOLUTION OF MEIOSIS.**
Solari A. CIR-CONICET, Facultad de Medicina, UBA. Argentina.

10:20 – 10:40  **IMPACT OF AGROPESTICIDES IN MALE FERTILITY.**
Bustos Obregón E. Facultad de Medicina, Universidad de Chile.

10:40 – 11:00  **RAFTS: NEW MEMBRANE MICRODOMAINS IN MOUSE SPERM.**
Fornés, M. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo, Mendoza, Argentina.

11:00 – 11:20  **REPRODUCTIVE CYCLICITY AS A SURVIVAL STRATEGY.**
Scardapane L. Fac Qca Bqca y Farm, Univ Nac San Luis. Argentina.

11:20 – 11:40  **MOLECULAR MECHANISMS OF ACROSOMAL EXOCYTOSIS.**
Mayorga LS. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo, Mendoza, Argentina.

11:40 – 12:00  **NUCLEAR PORE BEHAVIOR DURING CHROMATIN CONDENSATION IN DIVERSE BIOLOGICAL MODELS. A FREEZE-FRACTURE STUDY.**
Cavicchia, JC. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo, Mendoza, Argentina.

12:15 – 13:00  **Plenary Lecture I:**
"CHEMOTACTIC FACTORS INVOLVED IN MIGRATION OF NEURAL CREST CELLS”

13:05 - 15:00  **Lunch**

15:00 – 17:00  **Symposium III:**
"EVOLUTIONARY AND PHYLOGENETIC STUDIES ON THE GENUS Solanum”.
Chairperson: Masuelli R.
15:00 – 15:30 INTERNAL BARRIERS TO HYBRIDIZATION IN TUBEROUS SPECIES OF *Solanum*. Camadro EL. EEA Balcarce, INTA-FCA, UNMdP, CONICET. Balcarce, Bs. As.

15:40 – 16:10 EVOLUTIONARY RELATIONSHIPS OF WILD TOMATOES. Peralta IE. Facultad de Ciencias Agrarias, Univ Nac Cuyo, Mendoza, and CONICET-IADIZA, Mendoza, Argentina.


17:15 – 18:25 **Plenary Lecture II:**

18:30 – 20:00 **Posters Session II.**
Number 34-63. Authors’ name beginning with D to L.

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**Friday, December 5**

8:30 – 9:50 **Posters Session III.**
Number 64-93. Authors’ name beginning with M to R.

10:00 – 12:00 **Symposium IV:**
“INTRACELLULAR MICROORGANISMS AND THE HOST CELL” Chairperson: Colombo MI

10:00 – 10:25 IS THE NUCLEUS REQUIRED FOR THE INFECTION OF HOST CELLS WITH NON-VIRAL PATHOGENS? Rabinovitch M. EPM, UNIFESP and IQ, USP, São Paulo, Brasil.


11:00 – 11:25 INDUCTION OF AUTOPHAGY BYPASSES *Mycobacterium tuberculosis* PHAGOSOME MATURATION BLOCK.
11:30 – 11:55 ATTENUATED Yersinia enterocolitica MUTANT STRAINS IN CYTOKINE DEFICIENCY CONDITIONS: IMPLICATIONS FOR VACCINE DEVELOPMENT.
Di Genaro MS. Area Microbiología, Fac. de Química, Bioquímica y Farmacia. Univ Nac San Luis, Argentina. Pettenkofer Institute for Hygiene and Medical Microbiology, Ludwig Maximilians University Munich, Munich, Germany.

12-15 – 13:00 Plenary Lecture III:
“HEAT SHOCK PROTEINS: FROM BASIC RESEARCH TO THE CLINIC”.
Dr. Daniel Ciocca. IMBECU-CONICET, CRICYT. Mendoza, Argentina.

13:05 – 15:00 Lunch

15:00 – 17:00 Symposium V:
“UPDATE OF STUDIES ON Trypanosoma cruzi”.
Chairperson: SOSA MA

15:00 – 15:25 NUCLEAR DIVISION IN PROTISTS.
Solari AJ. CIR, Fac Med, Universidad de Buenos Aires, Buenos Aires, Argentina.

15:30 – 15:55 GONAD DEVELOPMENT DURING EMBRYOGENESIS AND METAMORPHOSIS IN Triatoma infestans.

16:00 - 16:25 STUDIES ON THE CELL DIVISION CYCLE OF Trypanosoma cruzi.

16:30 - 16:50 THE EFFECT OF NATURAL COMPOUNDS ON CULTURED Trypanosoma cruzi EPIMASTIGOTES.
Sosa MA. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo, Mendoza, Argentina.

17:15 – 18:25 Plenary Lecture IV:
“THYROID DYSFUNCTIONS AND FEMALE REPRODUCTION”.
Dr. Graciela A. Jahn. Lab de Reproducción y Lactancia, IMBECU-CONICET, Mendoza, Argentina.
18:30 – 20:00  FOUNDATIONAL MEETING OF THE ARGENTINE MICROSCOPY SOCIETY.
Chairpersons: Juan Pablo Bozzini and Marta Mariano

Saturday, December 6

8:30 – 9:50  Poster Session IV.
Number 94-115. Authors name beginning with S to Z.

10:00 – 12:00  Plenary panel:
“ARGENTINEAN AND LATIN AMERICAN JOURNALS”.
Chairperson: Piezzi RS

10:00 – 10:20  QUALITY STANDARDS IN ARGENTINE SCIENTIFIC JOURNALS.
Flores AM. Centro Nac Arg ISSN CAICYT-CONICET, Buenos Aires.

10:25 – 10:45  QUALITY REQUIREMENTS FOR INTERNATIONAL PUBLICATION.
Bustos-Obregón E. University of Chile Medical School, Santiago, Chile.

10:50 – 11:10  A BRIEF HISTORY OF THE JOURNALS “MICROSCOPIA ELECTRONICA Y BIOLOGIA CELULAR” AND “BIOCELL”.
Burgos M.H. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo, Mendoza, Argentina.

11:15 – 11:35  QUALITY AND CHALLENGES IN LATIN AMERICAN JOURNALS. THE EXPERIENCE OF BIOCELL.
Piezzi RS. IHEM-CONICET, Fac Cs Méd, Univ Nac Cuyo, Mendoza, Argentina.

11:45 – 12:05  THE ROLE OF THE UNIVERSITY PRESS ON PERIODICAL PUBLICATIONS.
Gotthelf R. EDIUNC, Universidad Nacional de Cuyo, Mendoza, Argentina

12:15 – 13:00  Plenary Lecture V:
“NOVEL TRANSDUCTION MECHANISMS FOR ANGIOTENSIN II RECEPTORS”.
Dr. Gladys Ciuffo. Fac de Química, Bioquímica y Farmacia, Universidad Nacional de San Luis. San Luis, Argentina.

13:05 – 15:00  Lunch
15:00 – 17:00  **Mini workshop:**
"MICROSCOPY IN MATERIALS SCIENCES"
Chairperson: Versacci R

15:00 – 15:15 **HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPY IN MATERIALS SCIENCE.**
Lovey FC. Centro Atómico Bariloche – Instituto Balseiro, Bariloche, Argentina.

15:20 – 15:35 **APPLICATIONS OF THE CONVERGENT BEAM ELECTRON DIFFRACTION TECHNIQUE TO THE STUDY OF STRUCTURES.**

15:40 – 15:55 **CHARACTERIZATION OF ADVANCED MATERIALS BY ELECTRON MICROSCOPY TECHNIQUES**
Bozzano PB, Ipohorski M, Versaci RA. Departamento Materiales, Centro Atómico Constituyentes, CNEA, Buenos Aires, Argentina.

16:00 – 16:15 **EVOLUTION AND MICROSTRUCTURAL CHARACTERISTICS OF DEFORMATION BANDS IN FATIGUED DUPLEX STAINLESS STEEL.**
Marinelli MC, Malarría JA, Alvarez IIFIR, Univ. Nac. de Rosario, Santa Fe, Argentina.

16:20 – 16:35 **SCANNING PROBE MICROSCOPIES IN SURFACE PHYSICAL CHEMISTRY RESEARCH.**
Vela ME, Salvarezza RC. Laboratorio de Nanoscopías. INIFTA - CONICET – Universidad Nacional de La Plata. La Plata, Argentina.

16:40 – 1700 **THE USE OF SEM (EDS and WDS) IN MATERIALS SCIENCE: SOME EXAMPLES.**
Caneiro A. Grupo de Caracterización de Materiales – Centro Atómico Bariloche e Instituto Balseiro. Bariloche. Argentina.

17:15 – 18:25  **Foundational SAMIC lecture:**
- Chairperson: Dr. Wanderley de Souza

- **Plenary Lecture:**
  ELECTRON BACKSCATTERING DIFFRACTION (EBSD): CRYSTALLOGRAPHY IN THE SCANNING ELECTRON MICROSCOPE.
  Dr. Aylwin Eades. Department of Materials Science and Engineering, Lehigh University, USA.

18:30  **Closing ceremony**