

**Report on the**  
**Regional Workshop “MORPHOLOGICAL APPROACHES TO**  
**STUDY STRUCTURAL & BIOCHEMICAL NEURONAL**  
**PROPERTIES”**  
**29<sup>th</sup> August – 2<sup>nd</sup> September, 2011**  
**Instituto de Investigaciones Biológicas Clemente Estable (MEC), School**  
**of Medicine- School of Science (UdelaR)**

**and**

**Symposium “Neuronal generation and degeneration in vertebrates”**  
**3<sup>rd</sup> September, 2011**  
**Instituto de Investigaciones Biológicas Clemente Estable (MEC)**  
**Montevideo – Uruguay**

**Organizing Committee**

Anabel Fernández

Silvia Olivera

María E. Castelló



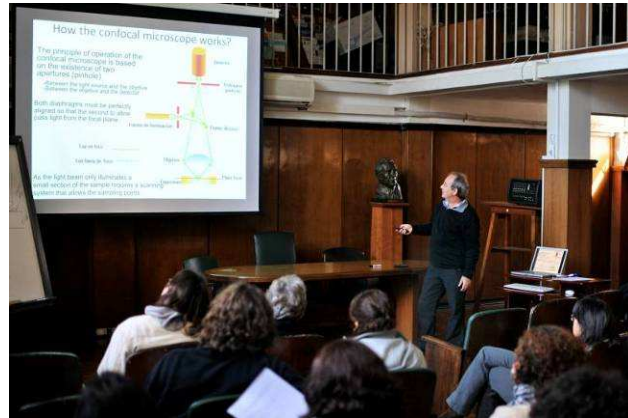
The main aim was to give students and young scientists from Latin America the opportunity to get theoretical and practical training some of the methodological

approaches to analyze and describe the morphological and biochemical structural neuronal properties.

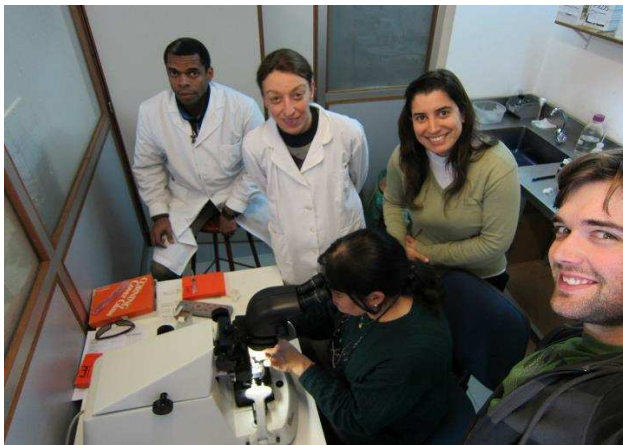
Nineteen scientists from Argentina, Mexico, Spain, USA and Uruguay were intensively involved in all the activities.

Among 38 applications, twenty Latin American students coming from Argentina (6), Brazil (2), Peru (1), and Uruguay (11), were selected to participate in both activities (the list of all students, their nationality and e-mail address is attached bellow).

The course provided an intensive training through morning lectures and practical activities along the afternoon and skills talks in the evening. After an introductory lecture introducing to the concept of structural neuronal properties and their role in the functional properties achieved by neurons and neuronal networks the series of morning talks introduced students to the theoretical background of several methodological approaches that allow the analysis of neuronal structural morphological and biochemical properties. These methodological approaches were exercised at the practical activities.



To ensure hands-on work, the students were divided groups (3 to 4 students), each of which was involved in one practical seminar that lasted the whole extension of the Workshop.







The application of the learned methodological approaches to specific scientific problems was introduced in some of the morning talks and, mainly through the Symposium focused on Neuronal Generation and Degeneration in Vertebrates.

To contribute to the students' professional training, two sessions of oral presentations by all students were organized. One of them consisted on individual presentations of the research projects in which students are involved at their home laboratories. The other consisted on group presentations of the results obtained in each of the practical activities preceded by a brief introduction of the theoretical background. Besides, it was offered evening skills talks.



All faculty and student received a set of materials, and all students received CDs containing support material (including research articles, practical activities tutorials and electronic versions of most of the lectures provided by the faculty) and the others to backup the data of the experimental activities.



The evaluation of the students (not finished yet) takes into account their participation in all the programmed activities and a personal report on one of the topics of the Workshop, including the discussion of results obtained in the practical activities.

To promote scientific and social interaction among participants, regional students and international invited faculty were lodged in the same hotel. Besides, all students and faculty shared the coffee breaks and the meals, most of them afforded by the Workshop and Symposium.







Our overall opinion of both the Workshop and the Symposium is very positive. Students actively and enthusiastically engaged in all the activities fostered by an excellent team of faculty that gave their best effort for making both activities an invaluable experience. We explicitly express our gratitude to all of them. The Workshop/Symposium had a further impact. On one hand, all the morning lectures were open to the rest of the Uruguayan scientific community. It also allowed the members of the organizing committee to get training on some of the techniques that were not implemented on our Institution yet. This provides and amplification factor as we are also involved in the Uruguayan post-graduate program in Basic Science.

Students' feedback about both activities was obtained by an evaluation form covering several aspects such as the content and duration of the activities, depth and time dedicated to each topic, theoretical/practical activities ratio, quality of conferences,

organization of the course, provided material, opportunity to interact with faculty and other students, and lodging. The overall students' judgment was very positive (an average mean score of 4.2 of a maximum of 5 for 14 questions).

The form also allowed adding comments, some of which are: "It fulfilled all my expectations at scientific-academic as well as personal level, as gave us the opportunity of meet excellent docents and students from the region". *"The course exceeded my expectations. I'm very grateful for this opportunity. I learned a lot and I know it will impact directly on my scientific career. This is the first course I attend out from my country, an experience I will remember for ever". "I came back to Brazil happy with all I have done here and I acknowledge the organizers for this gift"*

### **Students.**

<b>Alejandro Villarreal</b>	<a href="mailto:yndustryra@hotmail.com">yndustryra@hotmail.com</a> - Argentina
<b>Aline Remor</b>	<a href="mailto:alineremor@gmail.com">alineremor@gmail.com</a> - Brasil
<b>Andrea Beltrán</b>	<a href="mailto:beltrana86@hotmail.com">beltrana86@hotmail.com</a> - Argentina
<b>Darío Tejera</b>	<a href="mailto:tejeradario61@gmail.com">tejeradario61@gmail.com</a> - Uruguay
<b>Diego Álvarez</b>	<a href="mailto:diegoalvarezar@hotmail.com">diegoalvarezar@hotmail.com</a> – Argentina
<b>Emiliano Trías</b>	<a href="mailto:emitirás@gmail.com">emitirás@gmail.com</a> - Uruguay
<b>Ernesto Miquel</b>	<a href="mailto:ernestomiquel@gmail.com">ernestomiquel@gmail.com</a> - Uruguay
<b>Eugenia Isasi</b>	<a href="mailto:eugeei@gmail.com">eugeei@gmail.com</a> - Uruguay
<b>Gabriela del Puerto</b>	<a href="mailto:gvitovich@gmail.com">gvitovich@gmail.com</a> - Uruguay
<b>Gonzalo Aparicio</b>	<a href="mailto:aparicio.hg@gmail.com">aparicio.hg@gmail.com</a> - Uruguay
<b>Guilherme Gomes</b>	<a href="mailto:monteirogomes@yahoo.com.br">monteirogomes@yahoo.com.br</a> - Brasil
<b>Luis Ernesto Acosta</b>	<a href="mailto:luisacosta79@yahoo.com">luisacosta79@yahoo.com</a> - Argentina
<b>Luis Flores</b>	<a href="mailto:l2_selbst@yahoo.com">l2_selbst@yahoo.com</a> - Perú
<b>Marcela Díaz</b>	<a href="mailto:marce.d_18@hotmail.com">marce.d_18@hotmail.com</a> - Uruguay
<b>Melina Bordone</b>	<a href="mailto:melina_bordone@yahoo.com">melina_bordone@yahoo.com</a> /melinita_b@hotmail.com - Argentina
<b>Natalia Bornia</b>	<a href="mailto:natibornia@hotmail.com">natibornia@hotmail.com</a> - Uruguay
<b>Paula Céspedes</b>	<a href="mailto:paulacespedes1@gmail.com">paulacespedes1@gmail.com</a> - Uruguay
<b>Valentín Cóppola</b>	<a href="mailto:knock@adinet.com.uy">knock@adinet.com.uy</a> / <a href="mailto:valen.coppola@gmail.com">valen.coppola@gmail.com</a> - Uruguay
<b>Valentina Olivera</b>	<a href="mailto:valentina.307@hotmail.com">valentina.307@hotmail.com</a> - Uruguay
<b>Ximena Lanosa</b>	<a href="mailto:ximena.lanosa@gmail.com">ximena.lanosa@gmail.com</a> - Argentina

## **Economical Report**

The Workshop and Symposia were funded by CAEN-ISN (net budget of 3958.63 dollars), PEDECIBA (89440 Uruguayan pesos) and CSIC (18000 Uruguayan pesos), reaching a total about 9750 dollars.

This financial aid was used to cover the following costs:

1) Airplane tickets of two international faculty: A. Kamaid from Mexico (11948 Mexican pesos equivalent to 955 dollars) and N. Cuenca from Spain (48000 Uruguayan pesos) both covered by PEDECIBA EVENTOS AND PEDECIBA PROFESORES VISITANTES.

2) Partial cost of students transport covered by CAEN/ISN: 1400 dollars (400 dollars for the student from Peru, 400 dollars for two students from Brazil, and 600 dollars for six students from Argentina).

3) Hotel accommodation of three faculties (6 days for D. Peterson and N. Cuenca, and 2 days for A. Schinder). Total cost: 7312 Uruguayan pesos (covered by PEDECIBA EVENTOS+ 60 dollars covered by CAEN/ISN).

4) Most meals that included a) all lunches of international faculty and regional students, b) opening and closing dinners of the Workshop and the lunch Symposium for all participants, c) cookies for coffee breaks, d) two dinners for international invited faculty, Total cost in Uruguayan pesos 21368.35 (1150 dollars) covered by CAEN/ISN.:

5) Organizational costs and material provided to students and faculty (18000 Uruguayan pesos, covered by CSIC, Universidad de la República).

6) Chemicals and transport of reagents for practical activities (14468 Uruguayan pesos covered by PEDECIBA EVENTOS AND PEDECIBA COURSES)

The activities were also supported by the Ministry of Education and Culture that provided transport for regional students and international faculty from the hotel to the IIBCE, and between the IIBCE and the Instituto Pasteur Montevideo for lunch. We also received the donation of coffee and all the implements for its preparation and serving from Castera Hnos. S.A. (Uruguay).

Finally, we also received an invaluable and generous contribution from the Dr. Peterson and Dr. Schinder that contributed with the cost of their air tickets. We acknowledge them and also Dr. Cuenca, Dr. Kamaid and. all the Uruguayan that faculties and laboratories that contributed with reagents and preparations for the practical.

## SUMMARY OF ECONOMICAL REPORT

<b>CAEN/ISN</b>		
<b>Approved (DOLLARS)</b>	<b>3958.63</b>	
Aid for travel costs of 9 Regional Students	1400.00	
Lodging of Regional Students & Complement of lodging of invited professors	1405.00	
Meals (see bellow)	1150.07	
<b>TOTAL</b>	<b>3955.07</b>	
<b>Not justified</b>	<b>3.56</b>	
<b>Meals covered by the Workshop &amp; Symposium - CAEN/ISN</b>	<b>Uruguayan pesos</b>	<b>DOLLARS</b>
Cookies for coffee breaks & food for invited professors	1812	
First day dinner for all students and professors of Workshop(29/08/2011)	2982	
Dinner Invited professors- 30/08/2011	730	
Dinner Invited professors- 03/09/2011	1460	
Last day dinner for all students and professors of Workshop- 02/09/2011	4586.35	
Last day dinner for all students and professors of Workshop- 02/09/2011	118	
Lunch for all students and speakers Symposium- 03/09/2011	5000	
Lunch for regional students and invited professors-I. PASTEUR - 05/09/2011	4680	
	<b>21368.35</b>	<b>1150.07</b>
<b>PEDECIBA/SCIENTIFIC EVENTS</b>		
<b>Approved (URUGUAYAN PESOS)</b>	<b>65000.00</b>	
Air ticket - Dr. Nicolás Cuenca	48000.00	
Partial coverage Air ticket - Dr. Andrés Kamaid	3571.97	
Lodging Invited professors (Dr. Cuenca, Dr. Peterson & Dr. Schinder)	7312.00	
Transport airport-hotel & parking Dr. Cuenca	604.00	
Taxi transport students hotel-IIBCE	129.00	
FedEx shipment of reagents for Workshop donated by Dr. Peterson	5068.00	
<b>TOTAL</b>	<b>64684.97</b>	
<b>Not justified</b>	<b>315.03</b>	



<b>PEDECIBA/INVITED PROFESSORS</b>		
<b>Approved (URUGUAYAN PESOS)</b>	<b>15040.00</b>	
Air ticket - Dr. Andrés Kamaid (11948 Mexican Pesos equivalent to 954.46 dollars)	15040.00	
<b>TOTAL</b>	<b>15040.00</b>	
<b>PEDECIBA/COURSES</b>	<b>9400.00</b>	
Secondary antibodies	9400.00	
<b>TOTAL</b>	<b>9400.00</b>	
<b>Not justified</b>	<b>0.00</b>	

(Scans of the bills are attached at the bottom of this document).

## REGIONAL WORKSHOP “MORPHOLOGICAL APPROACHES TO STUDY STRUCTURAL & BIOCHEMICAL NEURONAL PROPERTIES” PROGRAM

### Monday 29 August

**9:00 – 12:00**

- Welcome and presentation of course.
- Neuronal structural properties – theoretical considerations (A. Caputi).

### **Coffee break**

- Classical approaches devoted to the identification and characterization of the structural morphological and biochemical neuronal properties (D. Rodriguez-Ithurrealde).

**12:00 – 14:00 - Lunch**

**14:00 – 18:00 - Practical activities**

**18:30 – 20:00 - Student own research presentation I**

**Dinner “Uruguayan empanadas”**

### Tuesday 30 August

**9:00 – 12:30**

- Light microscopy (C. Negreira)
- Fluorescence microscopy (D. Peterson)

**Coffee break**

- Laser scanning confocal microscopy (N. Cuenca)
- Electron microscopy (G. Casanova)

**12:30 – 14:00 - Lunch**

**14:00 – 18:00 - Practical activities**

**18:30-19:30** – Skills: “Specimen Preparation for Good Microscopy” (D. Peterson)

**Wednesday 31 August**

**9:00 – 12:30**

- Use of confocal microscopy to the study of skeletal muscle calcium movements (G. Brum)
- Immunolabelling techniques: commonalities and differences (N. Cuenca)

**Coffee break**

-In situ hybridization I (A. Kun)

**12:30 – 14:00 - Lunch**

**14:00 – 18:00 - Practical activities**

**18:30 – 19:30** – Students’ own research presentation II

**Thursday 1 September**

**9:00 – 12:30**

- Electron microscopy (**G. Casanova**)
- Characterization of functional neuronal properties “*in vitro*” (J. Nogueira)

**Coffee break**

- Tissue staining for multiple labeling & analysis of double-labeling (N. Cuenca)
- In situ hybridization II (A. Kamaid)

**12:30 – 14:00 - Lunch**

**14:00 – 18:00 - Practical activities**

**18:30 – 19:30** - Skills: "Ethical use of Photoshop for scientists" (D. Peterson)

### **Friday 2 September**

9:00 – 12:30

- Methodological approaches to study neurogenesis (A. Schinder)
- Quantifying neurogenesis (D. Peterson)

#### **Coffee break**

- Development of morphological & functional properties of adult newborn neurons (A. Schinder)
- Induction of focal adult neurogenesis by “*in vivo*” gene delivery (D. Peterson)

**12:30 – 14:00 - Lunch**

**14:00 – 18:00 - Practical activities**

**18:30 – 19:30** Lab work students’ presentations & closing of the course

Dr. Peterson cooking master class at Bremen’s

### **PRACTICAL ACTIVITIES**

**14:00 – 18:00 - 29 August – 2 September**

- 1) Histochemistry and Immunolabeling in a model of nervous system damage (N. Cuenca, S. Olivera, M. Radmilovich, N. Lago & MN Sarlabos, IIBCE & Histology & Embriology Department, School of Medicine)
- 2) In situ hybridization (A. Kamaid & A. Kun, IIBCE)
- 3) Analysis of postnatal neurogenesis using IdU & CldU thimidine analogs (D. Peterson, M. Castelló & A. Fernández; IIBCE)
- 4) Analysis of the cellular & subcellular morphological structural properties of the ventricular linning using MET (G. Casanova – J.C. Rosillo, IIBCE & School of Science)
- 5) “In vitro” intracellular recording and labeling of neurons (A. Caputi – P. Aguilera, IIBCE).
- 6) Culture and characterization of spinal motor neurons (P. Cassina & L. Martinez-Palma, School of Medicine).

Demonstration on “Dynamic confocal microscopy” (G. Brum, School of Medicine)



## **FACULTY**

P. Aguilera, IIBCE, Uruguay

G. Brum, School of Medicine, UdelaR, Uruguay

A. Caputi, IIBCE, Uruguay

G. Casanova, School of Science, UdelaR, Uruguay

P. Cassina, School of Medicine, UdelaR, Uruguay

M. Castelló, IIBCE, Uruguay

N. Cuenca, School of Science, Universidad de Alicante, España

A. Fernández, IIBCE - School of Science, UdelaR, Uruguay

A. Kamaid, UNAM, Mexico

A. Kun, IIBCE- School of Science, UdelaR, Uruguay

N. Lago, NBCM-School of Medicine, UdelaR

C. Negreira, School of Science, UdelaR

J. Nogueira, IIBCE- School of Medicine, UdelaR

S. Olivera, IIBCE, Uruguay

D. Peterson, Rosalind Franklin University of Medicine & Science, USA

M. Radmilovich, IIBCE- School of Medicine, UdelaR

D. Rodríguez-Ithurralde, IIBCE

JC. Rosillo, IIBCE, Uruguay

A. Schinder, Instituto Leloir, Argentina

# **Symposium “Neuronal generation and degeneration in vertebrates”**

**Saturday 3th of September**

## **PROGRAM**

### **9:00 - CNS development and postnatal neurogenesis**

**9:00** - Proliferation and neurogenesis in adult brain of *Austrolebias*. Anabel Fernández (IIBCE - School of Science, UdelaR, Montevideo, Uruguay)

**9:15** – Brain proliferation zones along postnatal development of pulse type weakly electric fish. Maria E. Castello (IIBCE, Montevideo, Uruguay)

**9:30** - The role of astrocytes in the neurogenic niche. Daniel Peterson (Center for Stem Cell and Regenerative Medicine, Rosalind Franklin University of Medicine and Science, The Chicago Medical School, Chicago, USA).

### **Coffee break**

**10:10** - Functional relevance of adult-born hippocampal neurons. Alejandro Schinder (Neuronal Plasticity, Instituto Leloir, Buenos Aires, Argentina) ,

**10:50** – BMP signaling in sensory organ generation: an example of embryonic neural cell fate regulation. Andres Kamaid (UNAM, Ciudad de México, México).

### **Lunch**

### **13:30 – CNS function and dysfunction**

**13:30** - Therapeutic approach for retinal degeneration. Nicolas Cuenca (Depto. de Fisiología, Genética y Microbiología, Universidad de Alicante, Alicante, España).

**14:10** – Delayed neurodegeneration in a model of Glutaric Acidemia (Silvia Olivera (IIBCE, Montevideo, Uruguay).

**14:25** - Axon-glia contact: a bridge crossed in health and disease. Alejandra Kun (IIBCE, Montevideo, Uruguay).


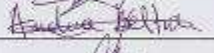
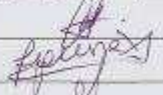
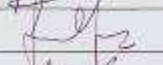
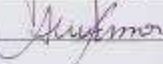

**14:40** - Use of YFP transgenic mice to visualise nerve regeneration. Natalia Lago (Natalia Lago, Institute. Pasteur - School of Medicine, UdelaR, Montevideo, Uruguay).

**14:55** - Stimulation of mitochondrial respiration in astrocytes as a strategy to prevent neurodegeneration. (Patricia Casina, School of Medicine, UdelaR, Montevideo, Uruguay).

## SCANNED BILLS AND DOCUMENTATION – CAEN

### REGIONAL WORKSHOP: MORPHOLOGICAL APPROACHES TO STUDY STRUCTURAL & BIOCHEMICAL NEURONAL PROPERTIES

Aid for travelling

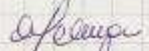
Name	DNI/Passport number	Country	Amount received (USD)	Name	Signature
Diego Alvarez	30551334	Argentina	100	Diego Alvarez	
Andrea Beltrán	32.244450	Argentina	100	BELTRAN, ANDREA	
<del>Jose</del> Luis Flores	40681805	Perú	400	Wilfredo Luis Alberto Flores Valencia	
Ximena Lanosa	28439403	Argentina	100	XIMENA A LANOSA	
Guilherme Monteiro	708462496	Brasil	200	Guilherme M. Gomes	
Aline Pertile	1079861355	Brasil	200	Aline Pertile Romer	
			1100		

Montevideo, Setiembre 3 de 2011


Workshop & Symposium "Morphological Approaches" ----

I received the equivalent to 100 USD to aid the travelling ticket

Name      DNI      Signature

Helina Bordone    31.438.102    

Acosta Luis    27542242    

Alejandro Villavieja    30727296    





# DETALLE DE MOVIMIENTOS CAJA DE AHORRO

FECHA HORA  
26/08/2011 20:24:54

TITULARES

MA. ESMERALDA CASTELLO GOMEZ

NUMERO DE CUENTA

1910211708

MONEDA

Dolares Estadounidenses

DA	EVALOR	CAUSAL DE MOVIMIENTO	DEBITOS	CREDITOS	SALDOS
01/02/11		DB USO OTRAS REDES CAJEROS			300.70
01/02/11		DB IVA BASICO			
22/03/11		EXTRACCION DE FONDOS			
01/04/11		RETIRO DE CA CAJERO REDBROU			
05/04/11		DB USO OTRAS REDES CAJEROS			
05/04/11		DB IVA BASICO			
19/05/11		RETIRO DE CA RED PAGOS			
19/05/11		DB TRANSF. DE FONDOS CAJ.AUTOM			
25/05/11		RETIRO DE CA CAJERO REDBROU			
27/05/11		RETIRO DE CA CAJERO REDBROU			
27/05/11		RETIRO DE CA CAJERO REDBROU			
30/05/11		RETIRO DE CA CAJERO REDBROU			
30/06/11		COMISION POR MANT. DE CUENTA			
25/07/11		DB USO OTRAS REDES CAJEROS			
25/07/11		DB IVA BASICO			
29/07/11		COMISION POR MANT. DE CUENTA	1.00		133.37
08/08/11		CREDITO INTERNO NEX		3,958.63	4,092.00
18/08/11		EXTRACCION DE FONDOS	133.37		3,958.63
22/08/11		DB TRANSF. ADMIN. CAJA DE AHORRO	2,495.00		1,463.63
26/08/11		EXTRACCION DE FONDOS	1,218.00		245.63



CRITICAL INCIDENTS



SUPERMERCADOS DISCO DEL URUGUAY S.A.

RUT 21 027413 0017

800 DEL URUGUAY S.A.

RUT 21 027413 0017



SERIE F N° 466366

CONTADO

MAGARIÑOS CERVANTES 2052  
TELS.: 2487 2735 - 2481 9473  
MONTEVIDEO  
DISCO 27

RUT	C. FINAL	FECHA

NOMBRE				
Workshop Neurosal Properties C.A.E.N				
DIRECCION				
CANT.	DESCRIPCION	PRECIO	IMPORTE	IVA
1	PLATOS GRANDES D	35.16	35.16	22
1	PLATOS GRANDES D	35.16	35.16	22
1	BROCHETTES HI	22.05	22.05	22
1	ROLLO DE COC. ELI	31.07	31.07	22
0.924	LIMON ESPEC.	14.67	13.54	22
1	ROMERO CAMPO	32.90	32.90	0
1	SAL FINA URUS	17.27	17.27	10
1	KNORR TRIPLE	17.21	17.21	22
TOTAL				
Iva 22 %	Iva 10 %	Iva Exen	Iva Carn	
154.21	17.27	32.90	0.00	204.38
33.93	1.73	0.00	0.00	35.66
TICKET REF: 12 8836 204959				
TOTAL				\$ 240.04

Fecha de vencimiento  
27/07/2013



I.V.A. AL DIA

ARCA - RUT 21 285396 0018  
CONSTANCIA 83 110476304 - 01/11  
CONTADO F 463.501/408.500 x 2 VIAS  
IMPRESA AUTORIZADA - O.T. 23.323

1ª VIA ORIGINAL CLIENTE (Blanca) / 2ª VIA COPIA ARCHIVO (Verde)



SERIE F N° 466365

CONTADO

MAGARIÑOS CERVANTES 2052  
TELS.: 2487 2735 - 2481 9473  
MONTEVIDEO  
DISCO 27

RUT	C. FINAL	FECHA
111111111111		02/09/2011

NOMBRE				
Workshop Neurosal Properties C.A.E.N				
DIRECCION				
CANT.	DESCRIPCION	PRECIO	IMPORTE	IVA
0.780	CALABACIN RODAJA	19.59	15.28	22
1	TENEDORES DESCA	10.57	10.57	22
1	TENEDORES DESCA	10.57	10.57	22
1	TENEDORES DESCA	10.57	10.57	22
0.568	CEBOLLIN ENVA	31.89	18.11	22
0.592	FRUTILLA	40.90	24.21	22
10	PAN FRANCES GR.	20.91	209.09	10
1	VASO 800 DES.300	16.31	16.31	22
1	VASO 800 DES.300	16.31	16.31	22
1	CHAMPIGNON ILE D	49.10	49.10	22
1	CHAMPIGNON ILE D	49.10	49.10	22
1	CHAMPIGNON ILE D	49.10	49.10	22
1.074	ZUCCINI ESPECIAL	61.39	65.93	22
1	PLATOS GRANDES D	35.16	35.16	22
1	PLATOS GRANDES D	35.16	35.16	22
TOTAL				
Iva 22 %	Iva 10 %	Iva Exen	Iva Carn	
459.81	209.09	0.00	0.00	668.90
101.18	20.91	0.00	0.00	122.09
TICKET REF: 12 8836 204959				
TOTAL				\$ 790.99

Fecha de vencimiento  
27/07/2013



1ª VIA ORIGINAL CLIENTE (Blanca) / 2ª VIA COPIA ARCHIVO (Verde)

SUPERMERCADOS DISCO DEL URUGUAY S.A.

RUT 21 027413 0017

DISCO DEL URUGUAY S.A.

RUT 21 027413 0017



SERIE F N° 466364

CONTADO



SERIE F N° 466363

CONTADO

MAGARIÑOS CERVANTES 2052  
TELS.: 2487 2735 - 2481 9473  
MONTEVIDEO  
DISCO 27

RUT	C. FINAL	FECHA
111111111111		02/09/2011

CVANTES 2052  
- 2481 9473

RUT	C. FINAL	FECHA
111111111111		02/09/2011

NOMBRE				
Workshop Neuronal Properties C.A.B.N				
DIRECCION				
CANT.	DESCRIPCION	PRECIO	IMPORTE	IVA
0.700	BRENDEN ESPECI	38.44	26.91	22
0.752	MORCILLA SALADA	84.89	65.34	22
3.046	ASADO PREMIUM	108.18	329.52	10
1.032	CH. EXTR. CATT.	159.84	164.95	22
2.894	PULPON DE YACIO	135.46	392.01	10
0.426	MORRON ROJO ENV	58.94	25.11	22
0.376	MORCILLA DULCE P	86.06	32.34	22
0.587	MORRON ROJO ENV	58.89	34.57	22
0.446	MORRON ROJO ENV	58.94	26.29	22
1	CHAMPIONN ILE D	49.10	49.10	22
1	COUS COUS EL	95.08	95.08	22
1	COUS COUS EL	95.08	95.08	22
1	BAMAN BCU. IKS	22.27	22.27	10
1	ACEITE OLIVA EXT	90.00	90.00	10
0.432	KIMU IMPORTADO -	49.10	21.21	22
1.838	BONIATO ZANAHORI	35.98	66.14	22
TOTAL				
Iva 22 %	Iva 10 %	Iva Exen	Iva Carn	
702.13	833.80	0.00	0.00	1535.93
154.47	83.38	0.00	0.00	237.85
TICKET REF: 12 8836 204959				
TOTAL				\$ 1773.78

Fecha de vencimiento  
27/07/2013



I.V.A. AL DIA

ARCA - RUT 21 266306 0018  
CONSTANCIA 83 110476304 - 07/11  
CONTADO F 463 501488 500 x 2 VIAS  
IMPRESA AUTORIZADA - D.T. 23.323

1° VIA ORIGINAL CLIENTE (Banco) / 2° VIA COPIA ARCHIVO (Vendedor)

NOMBRE				
Workshop Neuronal Properties C.A.B.N				
DIRECCION				
CANT.	DESCRIPCION	PRECIO	IMPORTE	IVA
1	SALUS C/BAS	21.31	21.31	22
1	BC DURAZNO LITRO	36.89	36.89	22
1	SALUS C/BAS	21.31	21.31	22
1	JUGO BC NARANJA	36.89	36.89	22
6	CERVEZA PATRICIA	41.80	250.82	22
6	ENV. PATRICIA	9.84	59.02	22
1	VINO TIO.FIGU	118.85	118.85	22
1	VINO TINTO CAR S	110.66	110.66	22
1	VINO TINTO CARME	105.74	105.74	22
1	VINO TINTO MALDE	110.66	110.66	22
1	VINO TOSCANIN	106.11	106.11	22
1	VINO TINTO CARME	113.93	113.93	22
1	COGN X3+SPRITE 2	127.05	127.05	22
1	ENVASE 2 LT X4 C	32.79	32.79	22
0.922	CHIMCHULINES	63.63	61.85	10
0.816	MOLLEJAS	208.17	169.87	10
TOTAL				
Iva 22 %	Iva 10 %	Iva Exen	Iva Carn	
1252.03	231.72	0.00	0.00	1483.75
275.43	23.18	0.00	0.00	298.61
TICKET REF: 12 8836 204959				
TOTAL				\$ 1782.36

Fecha de vencimiento  
27/07/2013



1° VIA ORIGINAL CLIENTE (Banco) / 2° VIA COPIA ARCHIVO (Vendedor)

MONTVIDEO

CONTRIBUYENTE EXONERADO  
POR EL LITERAL N. ARTÍCULO 19  
TÍTULO 10 DEL T. ORDENADO 1996

911 COLLECTIONS

CONS.  
FINAL

DIA	MES	ANO
2	9	11

Name: \_\_\_\_\_

**Dirección:**

CANT.	DETALLE	P. UNIT.	IMPORTE
15	unenter		51
10	estiler		32
1	abrado		35

IUR AL D'A  
 stampa - R.U.T. 27116500013  
 Imprenta Autografica  
 Confezione 8310420902  
 A. 20851 x 31850 x 2 n. 4350 - 2711

TOTAL \$ 18.-

Alejandro Val Gomez

Resto Bar

Pipioló's

**Parrilla - Pizzeria**  
Dioniso Oñbe frente al 3195  
**Tel: 481 1803**  
Montevideo

RILEY 24 472758 0013

**CONTADO**

### Serie A

01221

Chemical

RUT COMPRADOR

Día	Mes	Año
20	8	11

Señor:

**Dirección:**

DETAIL: *Cond.*

**TOTAL** 538

I.V.A. AL DIA

Infopel Ltda. - RUT 21 4281900-011

Constancia 62100238583 - 5/2010

CÓNTAGO DEL 1001 AL 1250 X 2 VIAS

Imprenta Autorizada 1ª VÍA BLANCA CUENTAS

VENCIMIENTO  
20/05/2012

SUB-TOTAL \$

I.V.A. 22 % S

TOTAL \$



SUPERMERCADOS DISCO DEL URUGUAY S.A.

RUT 21 027413 0017



SERIE F N° 465987

CONTADO

MAGARIÑOS CERVANTES 2052  
TELS.: 2487 2735 - 2481 9473  
MONTEVIDEO  
DISCO 27

RUT	C. FINAL	FECHA
XXXXXX	XXX	28/08/2011

Mirru Ltda.  
**la Clementina**  
Luis A. de Herrera 2250  
Tel. 2480 8080 - Montevideo

RUT 216646940014  
CONTADO Serie A

N° 003802

RUT COMPRADOR

29 08 11

Señor

CAEN-ISA

Cant.	DETALLE	UNITARIO	IMPORTE
26	JYQ	32	832
26	CAFE	"	832
13	QY KEIRUNA	11	416
13	PAPRESSE	4	416
13	PAPEL QY KEIRUNA	11	416
7	ENVASES	10	70

IVA AL DÍA  
W. Corral - RUT 211503560017  
Constancia 83110400006 - 08/11  
Contado A 003.001 al 004.000 x 2  
Imprenta autorizada

SUB TOTAL \$

IVA.....%

TOTAL \$

1a. blanca cliente  
2a. archivo color

VENCIMIENTO  
24/08/2013

NOMBRE				
DIRECCION				
CANT.	DESCRIPCION	PRECIO	IMPORTE	IVA
3	OTRA SURTI COR	27.46	82.38	22
4	GALLETITAS SURTI	31.15	124.59	22
2	GALLETITAS SURTI	32.78	65.57	22
6	GALLET LIA	27.87	222.95	22
1	AZUCAR BLANCA AZ	29.09	29.09	10
1	CREMA CAFE KR	81.07	81.07	22
1	DULCE LECHE	26.64	26.64	22
1	GALLETA M. CUBANO	31.15	31.15	22
1	PAN SALADO	38.11	38.11	22
12	AGUA MINERAL	16.39	196.72	22
1.666	NARANJA OMBLIGO	19.91	33.17	10
1.712	NARANJA RED A/C	29.91	51.20	10
1	AGUA MINERAL NAT	34.43	34.43	22
2	V.D. PASQUAL	100.82	201.64	22
3	COCA COLA 2.5L	49.18	147.54	22
3	COCA COLA ZERO 1	43.44	130.33	22
TOTAL				
Iva 22 %	Iva 10 %	Iva Exen	Iva Corr	
1383.12	113.46	0.00	0.00	1496.58
704.28	11.35	0.00	0.00	315.63
TICKET REF: 14 7557 176050				
TOTAL				\$ 1812.21

Fecha de vencimiento  
27/07/2013

I.V.A. AL DÍA

ARCA - RUT 21 285366 0018  
CONSTANCIA 83 110476304 - 07/11  
CONTADO F 465 501-468 500 x 2 VIAS  
IMPRESA AUTORIZADA - C.T. 23.323



1ª VIA ORIGINAL CLIENTE (Blanca) / 2ª VIA COPIA ARCHIVO (Verde)



# SCANNED BILLS PEECIBA EVENTOS

LIQUIDACION	
FACTURA	IMPORTE
339668	1947 25
	TC
	2050
TOTAL	5068

IMP KAPPA SRL - RUT 21 20122 0018  
RECIBO OFICIAL - 141.001.511.000 x 3 - 0910  
IMPRESA AUTORIZADA - O.T. 21.002

**FedEx Express** **FEDERAL EXPRESS CORPORATION**  
AVDA. GRAL. RIVERA 3528 - 11.300 - Montevideo - Uruguay  
TEL.: 2628 0100\* - FAX: 2628 4829  
R.U.T. 21 163556 0018

**RECIBO OFICIAL N° 145772**

Montevideo 29 de Setiembre de 2011

RECIBIMOS DE Pedro Pablo Biagucci (Carballe)

CLIENTE N° 458171041

LA SUMA DE PESOS URUGUAYOS / DOLARES AMERICANOS Cinco mil

Seis / ochenta con /

EN EFECTIVO \$ / US 5068 CHEQUE N° \_\_\_\_\_

C/BANCO \_\_\_\_\_ POR PAGO DE LAS FACTURAS

QUE SE DETALLAN: [Signature]

FRUA

**KLYNSTUR S.A.**  
R.U.T.: 21 441969 0010

**CONTADO**  
Serie A **N° 006020**

R.U.T. COMPRADOR \_\_\_\_\_ C.FINAL \_\_\_\_\_

DIA MES AÑO  
13 9 11

SEÑOR: PEDEFORA BIAGUCCI

CONCEPTO	PRECIO UNITARIO	IMPORTE
1 PASAJE DOTA ALICANTE - MONTEVIDEO - ALCANTAR	48.000,-	48.000
TE A FAVOR DE NICOLAS CUENCA		
<u>por 48.000,-</u>		

TOTAL US\$ \_\_\_\_\_  
TOTAL \$ UR. 48.000,-

1) ORIGINAL CLIENTE (Banco)  
2) COPIA CONTABLE (Banco)  
3) COPIA RECIBO (Banco)

FECHA DE VENCIMIENTO: 18.08.2012

Efectivo \_\_\_\_\_ Cheque N° \_\_\_\_\_ Banco \_\_\_\_\_  
Tarjeta N° \_\_\_\_\_

IVA AL DIA  
IMPRESA REGINA LTDA.  
RUT: 21203040011  
CONSTANCIA: 83 10 0408649 - 08/10  
CONTADO A: 208.801 - 006.100 x 3 vas  
IMPRESA AUTORIZADA

**TAXI**

DIA MES AÑO  
3 9 11

MATRICULA 1490

R. TAXI 1471

MOVIL \_\_\_\_\_

VIAJE DE: \_\_\_\_\_

A: \_\_\_\_\_

FICHAS 72 IMPORTE \$ 129

GRACIAS POR SU PREFERENCIA

R.U.T. 21 237714 0011  
CONTADO SERIE A

Nº 101939

DIA MES AÑO  
28 8 11

Remises  
La Española  
Km. 1.5 de Lavalle 2283  
C. Valde Tránsito Centro Loc. 6  
FAX: 2622 23 23  
www.remiseslaespanola.com

R.U.T. COMPRADOR C.FINAL

Remises Biología

Recepción: 30  
emisión: 30  
Chofer: CASAS

OR LOS SIGUIENTES SERVICIOS CORRESPONDIENTES A:

DIA	SERVICIO	DEBE
	Por servicios prestados	500-

SUB TOTAL \$ / US\$ 500-  
I.V.A. 10% \$ / US\$ 50-  
TOTAL \$ / US\$ 550-

Fecha de vencimiento 10/10/2012

V.A. AL DIA  
Dr. Gálvez Nolasco S.A. R.U.T. 21 5201270016  
Av. Los Andes 1083 10833389 - 10110  
CONTADO A - 100.501 al 100.500 X 2 - 03864  
Imprenta Autorizada

Proyecto Internacional de Carrasco  
NT: 214737710015  
VIA AL DIA: Resol. 061.335/82  
Orígenes  
Vía: 101 Km. 19.450  
TPO: 21 6045329  
Eje: 2  
Aeros Alalinda  
Código: 411639  
Fecha/Hora: 29/08/2011, 10:30:22  
Códig. Cde NT: 002 0159932  
PROVIDOR FINAL  
x 2a Parking A 1 0,00  
29/08/2011 09:35:05  
29/08/2011 10:30:07  
suma 42 mgs  
Carga generador: 50,00 1 50,00  
020300643660  
Código FOLIO VENTA  
Data Sistemas Parking  
www.pspk.com.ar

DOTREY S.A.

Dr. Aquiles Lanza 1166  
11100 Montevideo  
Tel.: (598) 2800 9641  
Fax: (598) 2800 9642  
www.brennermontevideo.com

RUT 21 608827 0016  
CONTADO Serie A  
Nº 2545

DIA MES AÑO  
08 09 11

RUT COMPRADOR C.FINAL

NOMBRE: *Perfección Biología: Regional workshop on*  
DIRECCION: *morphological approaches*

CANT.	DETALLE	P. UNIT.	TOTAL
6	Notas Alojamiento profesores	110788	6647,27

IVA AL DIA  
SUB TOTAL 6647,27  
I.V.A. 10% 664,73  
I.V.A. 22%  
TOTAL GROSS 7312,-

Fecha de Vencimiento 17/05/2013

Dotrey S.A. RUT 21 608827 0016  
Calle 13 11 087823 - C.T. B 1338  
COPINCO S.A. 201 al 200 - 2 Vías - 10110  
Imprenta Autorizada - Tel.: 280 8145

1a. VIA Blanca - ORIGINAL Cliente  
2a. VIA Rojo - COPIA Archivo

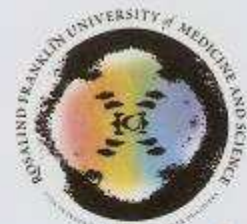
ROSALIND FRANKLIN UNIVERSITY  
OF MEDICINE AND SCIENCE

**Daniel A. Peterson, Ph.D.**

Executive Director  
Center for Stem Cell and Regenerative Medicine

3333 Green Bay Road, North Chicago, IL 60064  
Telephone: 847-578-3411 Facsimile: 847-578-8545  
daniel.peterson@rosalindfranklin.edu

July 14, 2011



Chicago Medical School  
College of Health Professions  
Scholl College of Podiatric Medicine  
School of Graduate and Postdoctoral Studies

Dra. Maria E. Castelló  
Instituto de Investigaciones Biológicas Clemente Estable  
Avenida Italia 3318  
C.P.: 11600  
Montevideo  
URUGUAY

Dear Marita,

Enclosed, please find reagents to use for the detection of proliferating cells in fish. I am happy to support the teaching mission of the international workshop you are organizing by providing these materials for teaching the course participants as a gift at no cost to you or the institute.

I am looking forward to joining you at the end of August to participate in the teaching of this year's workshop.

Best regards,

A handwritten signature in black ink, appearing to read 'D. Peterson', written in a cursive style.

Daniel A. Peterson, Ph.D.

## SCANNED BILLS – PEDECIBA INVITED PROFESSORS



Folio  
0031

### Orden de Servicios

FECHA: 06 DE SEPTIEMBRE DEL 2011  
CLIENTE: PEDECIBA, UNIVERSIDAD DE LA REPUBLICA.  
DIRECCIÓN: MONTEVIDEO, URUGUAY.  
C.P.: \_\_\_\_\_ R.F.C.: KATA730703C11

RUTA DEL AÉREO: MEX-SCL-MVD-SCL-MEX  
AEROLÍNEA: LAN AIRLINES  
PASAJEROS: KAMAID ANDRES

Cantidad	Descripción	Precio Unitario	Importe
1	BOLETO AÉREO RUTA: MEX-SCL-MVD-SCL-MEX PAX. KAMAID ANDRES FECHA DE SALIDA: 26 / 08 / 11 FECHA DE REGRESO: 25 / 09 / 11	\$10,541.00	\$10, 541.00
FORMA DE PAGO: EFECTIVO		Subtotal	\$ 10,541.00
(ONCE MIL NOCEVIENTOS CUARENTA Y OCHO PESOS 00/100 M.N.)		XO	\$ 316.00
		XD	\$ 301.00
		WU	\$ 422.00
		ZQ	\$ 351.00
		YQ	\$ 17.00
Importe con letra.		<b>Total</b>	<b>\$ 11,948.00</b>
Torres Adalid No. 911 L-1 Col. Del Valle C.P. 03100 Deleg. Benito Juárez. ☎ + (55) 3096-2937 al 39   5536-7112 ☎ 01 800 6380 028   01 800 0830 280			







BIONOVA LTDA.  
ALEJANDRO FICL DE PEREDA 1405  
TEL/FAX: + (598) 2204 2743  
+ (598) 2209 9581  
+ (598) 2209 2381  
E-mail: bionova@bionova.com.uy  
Web: www.bionova.com.uy  
MONTEVIDEO, URUGUAY

R.U.T. 21 501675 0013

RUT COMPRADOR	C. FINAL	FECHA
	X	13/09/11

Pac. Rec. Ad 11646 SERIE A 011646

CLIENTE	MONEDA
PEDECISA BIOLOGIA	Pesos
DIRECCION	

CANT.	CODIGO	DETALLE	P. UNITARIO	TOTAL
1.00	A11008	ALEXA FLUOR(R) 488 GGT A X 2MG	2668.80	2668.80
1.00	A21050	ALEXA FLUOR(R) 633 GOAT A X 2 MG	2668.80	2668.80
1.00	A11035	ALEXA FLUOR 546 X 0.5ML	2668.80	2668.80
1.00	A11003	ALEXA FLUOR 546 GOAT A 0.5ML	2668.80	2668.80
1.00	A21271	ANTI-HUC/HUD NEURONAL PRO 100 UG	6508.80	6508.80
1.00	S7020	SYTOX(R)GREEN NUCLEIC ACID 250DL	3532.80	3532.80

OBSERVACIONES ATT. MARIA CASTELLO

IVA AL 24%  
1902 KAPPA SRL - RUT 21 281252 6619  
CONSTRUCCIA 8300440985 - 09/10  
SERIE A 000551012 550 x 4 VIAS  
IMPRESION AUTORIZADA - OT 20388

VENCIMIENTO DE VAGO  
13/09/11

FECHA DE  
VENCIMIENTO  
08/09/2012

Sub-Total 20716.80

I.V.A. 10 % 0.00

I.V.A. 22 % 0.00

\$ TOTAL 20,716.80

ORIGINAL - CLIENTE



BIONOVA LTDA.  
ALEJANDRO FICL DE PEREDA 1405  
TEL/FAX: + (598) 2204 2743  
FAX: + (598) 2209 2381  
E-mail: bionova@bionova.com.uy  
Web: www.bionova.com.uy  
MONTEVIDEO, URUGUAY

R.U.T. 21 501675 0013

RECIBO OFICIAL

Nº 005926

US\$ \$ 20.716.80

LIQUIDACION		
FACTURA	FECHA	IMPORTE
11646		20716.80
TOTAL \$/US\$		20716.80

Montevideo, 13 de Septiembre de 2011

Recibimos de PEDECISA BIOLOGIA

ATT. MARIA CASTELLO

la cantidad de dólares / pesos uruguayos veinte mil setecientos dieciséis con 00/100

según detalle al margen.

En cheque/electivo X c/Banco