



UNIVERSIDAD DE
COSTA RICA

EM Escuela de
Medicina

UCR FM 08:40 12/05/16

11 de mayo del 2016
EM-SA-230-2016

Dr. Luis Bernardo Villalobos Solano
Decano
Facultad de Medicina

Estimado señor Decano:

Esta Dirección eleva ante el Consejo Asesor de Facultad de Medicina, la solicitud de permiso con goce de salario planteado por el Dr. Oscar Brenes García, Profesor Interino desde el 2008, en el Departamento de Fisiología, el cual solicita permiso por Tiempo Completo.

Dicho permiso lo requiere ya que ganó una beca de la Organización Internacional de Investigaciones en el Cerebro (IBRO), para participar en la Escuela de Neurociencias "Cellular and Molecular Mechanisms of Disease" y para presentar un póster en el 10th Annual Canadian Association for Neuroscience (CAN) Meeting, a realizarse en Canadá.

La solicitud del permiso rige del 16 de mayo al 03 de junio del 2016.

Atentamente,


Dra. Lizbeth Salazar Sánchez
Directora



Ksp*

cc: Archivo





UNIVERSIDAD DE
COSTA RICA

EM Escuela de
Medicina

Departamento de Fisiología

02 de mayo del 2016
DF-103-2016

Dra. Lizbeth Salazar Sánchez
Directora
Escuela de Medicina

Estimada doctora:

Escuela de Medicina
Registro N° 601
Fecha: _____
Trámite a realizar, por sección
Administrativa (✓)
Estudiantil ()
Dirección ()
Firma: _____

UCR EM 1025 MAY0216

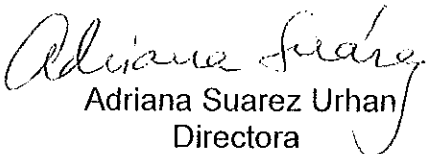
La presente es con el fin de informarle que recientemente gané una beca de la Organización Internacional de Investigaciones en el Cerebro (IBRO, por sus siglas en inglés) y obtuve los documentos necesarios, para participar en la escuela de neurociencias "Cellular and Molecular Mechanisms of Disease" y para presentar un póster de mis investigaciones en el 10th Annual Canadian Association for Neuroscience (CAN) Meeting, a realizarse en Canadá del 18 de mayo al 1 de junio del presente año.

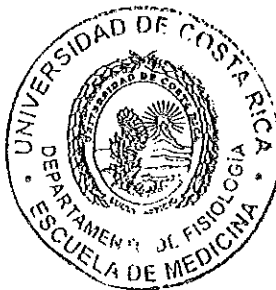
La beca del IBRO incluye los gastos de viaje, programado por la organización para el 16 de mayo (partida) y 3 de junio (regreso), así como los gastos de habitación y comida. Por esta razón, no estoy solicitando apoyo monetario a la Universidad de Costa Rica.

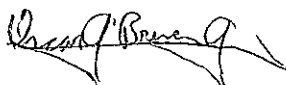
Le solicito cortésmente un permiso con goce de salario del 16 de mayo al 3 de junio para poder asistir a dichas actividades.

Adjunto a la presente solicitud, la carta de aceptación a la escuela, el abstract que presentaré en la escuela y el congreso y el correo de aceptación del congreso.

Saludos cordiales,


Adriana Suarez Urhan
Directora
Departamento de Fisiología
Escuela de Medicina




Oscar Brenes García
Profesor
Departamento de Fisiología
Escuela de Medicina

SR

C: Archivo





INTERNATIONAL BRAIN RESEARCH ORGANIZATION

March 14, 2016

Oscar Brenes
University of Costa Rica
San Jose, Costa Rica
oscar.brenes_g@ucr.ac.cr

Re: 10th Canadian IBRO School of Neuroscience, Official Letter of Acceptance

Dear Oscar,

On behalf of IBRO and all sponsors, we are pleased to confirm your acceptance to attend the **10th Canadian IBRO School of Neuroscience, Montreal and Toronto, May 18 - June 1, 2016, on Cellular and Molecular Mechanisms of Disease**. We look forward to your participation in the School (May 18 – 28, 2016) in Montreal and at the **10th Annual Canadian Association for Neuroscience (CAN) Meeting** (May 29 – June 1, 2016) in Toronto.

Support

As announced, the School organization is covering all of your expenses, including the return airfare from your home to Montreal (return flight from Toronto), train to Toronto, local lodging, meals, local travel in Montreal and Toronto, as well as CAN Meeting registration fees. You will also be covered by a medical insurance.

Visa

You are required to obtain a Canadian Visa to enter Canada. Please print a copy of this letter and use it as part of the required documents needed to obtain the visa. Because of the short timeline, it is important that you initiate the visa process and travel arrangements **immediately** to ensure your attendance. The specific Visa needed is a **Temporary Resident Visa**. You will not need a Study Permit for this school as the program of study is less than six months. It is important that you start the procedure to obtain the visa immediately as it may take time.

It is also important that you **notify us** (at ante.padjen@mcgill.ca; cc csoares@voyagesmerit.com) as soon as you submit your visa application in order to help us coordinate the efforts.

Travel Arrangements

Your travel arrangements will be made by Ms. Clara Soares (csoares@voyagesmerit.com) of Voyages Merit Travel Agency (the official Travel Agent of the Can-IBRO School) and overseen by Dr. Ante L. Padjen of the Canadian IBRO Schools of Neuroscience, McGill University. Please contact Ms Soares (cc to Dr Padjen) as soon as possible indicating the airport closest to your home, in order to begin the arrangements. Once you have obtained your visa, you will receive an electronic airfare ticket. Your travel dates will be sent to the school and you will be met at the airport in Montreal and taken to the student residence. We will communicate any necessary details prior to your arrival.

Accommodations

The accommodations will be at student residence of McGill University (3425 University Street, Montreal, Quebec, H3A 2A8) and University of Toronto (89 Chestnut St, Toronto, ON M5G 1R1). The lectures and laboratory demonstrations will take place at various facilities at McGill University.

Please let us know your dietary requirements and preferences.

10th Annual Meeting of the Canadian Association for Neuroscience

In a few weeks you will be invited to register and submit your abstract for presentation at the meeting. The venue for the Canadian Neuroscience Meeting 2016 is the Toronto Centre Sheraton Hotel.

Useful websites:

<http://can-acn.org/meeting2016>

<http://www.sheratontoronto.com/>

School Intranet - Dropbox

You will be invited to join the School Intranet/Forum in Dropbox where we will share schedules, learning material, photos as well as additional details about the school venues, accommodation and meals.

Please let us know if you have any questions. Once again, we look forward to seeing you in Montreal.

Sincerely,

Ante L. Padjen,

Organizing Committee of Canadian IBRO Schools,
Department of Pharmacology & Therapeutics, McGill
University,
3655 Promenade Sir W Osler, Montreal, QC H3G 1Y6,
ante.padjen@mcgill.ca

Cc

Dr. Albert Aguayo, McGill University, albert.j.aguayo@mcgill.ca

Dr. Ellis Cooper, McGill University, ellis.cooper@mcgill.ca

Ms. Clara Soares (csoares@voyagesmerit.com)

Increased epileptic-like activity in synapsin-silenced *Helix* neurons associated with increased Ca^{2+} and Ca^{2+} -activated BK currents

O. BRENES^{a,b}, D. H. F. VANDAELE^{c,d,e}, E. CARBONE^{c,d}, P. G. MONTAROLO^{a,f} AND M. GHIRARDI^{a,f}

a Department of Neuroscience, Section of Physiology, University of Turin, Turin, Italy

b Department of Physiology, School of Medicine, University of Costa Rica, San Jose, Costa Rica

c Department of Drug Science, Lab of Cellular and Molecular Neuroscience, Turin, Italy

d Nanostructured Interfaces and Surfaces Center, Turin, Italy

e Institute of Science and Technology Austria, Am Campus 1, Klosterneuburg, Austria.

f National Institute of Neuroscience, Turin, Italy

Synapsins are an evolutionarily conserved family of presynaptic proteins crucial for the fine-tuning of synaptic function. A large amount of experimental evidence has shown that synapsins are involved in the development of epileptic phenotypes in both humans and animals, however the exact mechanism is not clear. We examined how synapsin down-regulation through asRNA affects the firing single neurons and isolated monosynaptic circuits using neurons from *Helix* land snail. We found that synapsin silencing is associated with a hyperexcitable phenotype, increasing neuron excitability to electrical and pharmacological stimulation. Synapsin-silenced neurons show slightly depolarized resting membrane potential, decreased rheobase, reduced threshold of action potential firing and increased firing rates, with respect to control neurons. In addition, these neurons show increased drug-induced epileptic-like activity susceptibility. The observed increase of Ca^{2+} and BK currents in synapsin-silenced neurons seems related to changes in the shape of the action potential waveform. Both currents are responsible of the faster firing rate of synapsin-deficient neurons sustained by the increased after hyperpolarization phase which helps recovering Na^+ and Ca^{2+} channels during repetitive firing. This in turn speeds up the depolarization phase by reaching the action potential threshold faster. Our results provide evidence that synapsin silencing increases intrinsic cell excitability associated with increased Ca^{2+} and Ca^{2+} -dependent BK currents in the absence of excitatory or inhibitory inputs.

Dear Oscar,

Your accepted poster submission for the CAN-ACN 2016 Meeting titled "*Increased epileptic-like activity in synapsin-silenced Helix neurons associated with increased Ca²⁺ and Ca²⁺-activated BK currents.*" is scheduled for Posters and Exhibits 1 on 5/30/2016.

Your poster number is **1-IBRO-178**. Please take note of your individual poster number and the poster session times below.

Dedicated Poster Times:

Poster Session 1

Monday, May 30

Poster/expo 10:15 – 10:45

Poster/expo 15:30 – 17:30

Poster Session 2

Tuesday, May 31

Poster/expo 10:15 – 10:45

Poster/expo 15:30 – 17:30

Poster Session 3

Wednesday, June 1

Poster/expo 10:15 – 10:45

Poster/expo 13:30 – 15:30

Regards,

Michelle Smith

Canadian Association for Neuroscience

Association Canadienne des Neuroscience Secretariat



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TRAVELLER INFORMATION

MR OSCAR GERARDO BRENES GARCIA

Home phone: 514-398-3603

Emergency contact: VERA FONSECA - 0683666427

San Jose - Panama City - Montreal , Toronto - Panama City -
San Jose

E-ticket number 230-1733115643-44

Issuing Airline: CM

Ticket status: e-ticket processed 26APR16

FLIGHT INFORMATION

SAN JOSE to MONTREAL

16 May 2016

Dep: 14:28 San Jose, Costa Rica | Juan Santamaria SJO | Terminal M
Arr: 00:52 +1 day Montreal, Canada | Pierre E. Trudeau International YUL

SAN JOSE to PANAMA CITY

Copa Airlines | CM537 confirmed

Monday 16 May 2016 | duration 1:22

Dep: 14:28 San Jose, Costa Rica | Juan Santamaria SJO |
Terminal M

Arr: 16:50 Panama City, Panama | Tocumen International PTY

Confirmation Number: Copa Airlines E2J323

Flight Number: Copa Airlines - CM 537



Fare type: Economy

Operated by: AEROREPUBLICA

Aircraft: Embraer 190

Meal: SNACK OR BRUNCH
Baggage: 2 piece(s) per traveller
Last check in: information not available

Mr Oscar Gerardo Brenes
Garcia

Meal preferences: No special meal - more details

Change of plane required. Time between flights : 1:24

PANAMA CITY to MONTREAL

Copa Airlines | CM422 confirmed

Monday 16 May 2016 | duration 5:38

Dep: 18:14 Panama City, Panama | Tocumen International PTY
Arr: 00:52 (+1 day) Montreal, Canada | Pierre E. Trudeau
International YUL

Confirmation Number: Copa Airlines E2J323

Flight Number: Copa Airlines - CM 422



Fare type: Economy
Aircraft: Boeing 737-800
Meal: MEAL (NON SPECIFIC)
Baggage: 2 piece(s) per traveller
Last check in: information not available

Mr Oscar Gerardo Brenes
Garcia

Meal preferences: No special meal - more details

TORONTO to SAN JOSE

03 Jun 2016

Dep: 09:55 Toronto, Canada | Lester B. Pearson International YYZ |
Terminal 1
Arr: 16:34 San Jose, Costa Rica | Juan Santamaria SJO | Terminal M

TORONTO to PANAMA CITY

Copa Airlines | CM471 confirmed

Friday 03 June 2016 | duration 5:36

Dep: 09:55 Toronto, Canada | Lester B. Pearson
International YYZ | Terminal 1
Arr: 14:31 Panama City, Panama | Tocumen International PTY

Confirmation Number: Copa Airlines E2J323

Flight Number: Copa Airlines - CM 471



Fare type: Economy
Aircraft: Boeing 737-800
Meal: MEAL (NON SPECIFIC)
Baggage: 2 piece(s) per traveller
Last check in: information not available

Mr Oscar Gerardo Brenes
Garcia

Meal preferences: No special meal - more details

Change of plane required. Time between flights : 1:30

PANAMA CITY to SAN JOSE

Copa Airlines | CM116 confirmed

Friday 03 June 2016 | duration 1:33

Dep: 16:01 Panama City, Panama | Tocumen International PTY

Arr: 16:34 San Jose, Costa Rica | Juan Santamaria SJO |
Terminal M

Confirmation Number: Copa Airlines E2J323

Flight Number: Copa Airlines - CM 116



Fare type: Economy

Aircraft: Boeing 737-800

Meal: SNACK OR BRUNCH

Baggage: 2 piece(s) per traveller

Last check in: information not available

Mr Oscar Gerardo Brenes
Garcia

Meal preferences: No special meal - more details

MISCELLANEOUS

Location: Juan Santamaria (San Jose, Costa Rica)

Departure Date: Wednesday 19 April 2017

Notes: SEGMENT DE RETENTION

GENERAL REMARKS

General remarks

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VOTRE VOL AVEC LA LIGNE AERIENNE. POUR ACCEDER A L'ENTENTE DE
TRANSPORTEURS ET LES AUTRES AVIS IMPORTANTS - VEUILLEZ VOUS
REFEREZ AU LIEN SUIVANT [HTTP://WWW.DGAC.FR/HTML/OSERVICE/VARSOVIE.PDF](http://WWW.DGAC.FR/HTML/OSERVICE/VARSOVIE.PDF)

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MON E-MAIL EST CSOARES@VOYAGESMERIT.COM

...

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