

2013

"The Louis and Fannie Tolz Program for Weizmann Institute - Thomas Jefferson University Collaboration"

Jefferson trip to Israel in January:
presentation of our joint application with Atan Gross

Preparation the night before at a coffee shop:



... and some sightseeing in Jerusalem

Love in Israel

..... followed by the arrival of the award notice



Mark L. Tykocinski, MD
The Anthony F. and Gertrude M. DePalma Dr.
Senior Vice President, Thomas Jefferson Univ.
President, Jefferson University Physicians

T 215.955.1628 F 215.503.2654

mark.tykocinski@jefferson.edu

13 March 2013

To: Dr. Gyorgy Hajnoczky - Department of Pathology, Anatomy & Cell Biology
Jefferson Medical College

Project title: Protein Dynamics and Interactions in the Mitochondrial Outer Membrane:
Control of Energy Metabolism and Survival (*Submission #29825*)

**Re: The Weizmann Institute of Science - Thomas Jefferson University Collaboration Program -
Funding Decision**

I am pleased to inform you that your application to the Weizmann Institute of Science (WIS) - Thomas Jefferson University (TJU) Collaboration Program has been selected for funding. This initiative seeks to foster research collaboration between our institutions, and is being launched with primary support from funds generously provided by the estate of the late Herman Tolz, a real estate developer and extraordinary business leader who lived in Villas, New Jersey.

In February, Biophysics 2013 in Philly, Subgroup Symposium on:

Mitochondrial Calcium Signaling

Organizers: Shey-Shing Sheu & György Hajnóczky

9:00 AM, **Vamsi K Mootha**, Harvard Medical School

The Mitochondrial Uniporter: From Molecular Identification to Physiology

9:30 AM, **Rosario Rizzuto**, University of Padova, Italy

Molecular Definition and Functional Role of the Mitochondrial Calcium Uniporter

10:00 AM, **György Hajnóczky**, Thomas Jefferson University
Molecular Mechanism of the Decoding Cytoplasmic Calcium Signals by Mitochondria

10:30 AM, Break

11:00 AM, **Shey-Shing Sheu**, Thomas Jefferson University

Multiple Mitochondrial Calcium Influx Mechanism: Physiological and Pathological Implication

11:30 AM, **Brian O'Rourke**, Johns Hopkins University
Beat-to-Beat Oscillations Versus Slow Integration of Sarcoplasmic Transients in Cardiac Muscle

11:45 AM, **W. Jonathan Lederer**, University of Maryland
Mitochondrial Calcium Dynamics

12:00 - 12:10 PM, Discussion

PTI

Seahorse Bioscience

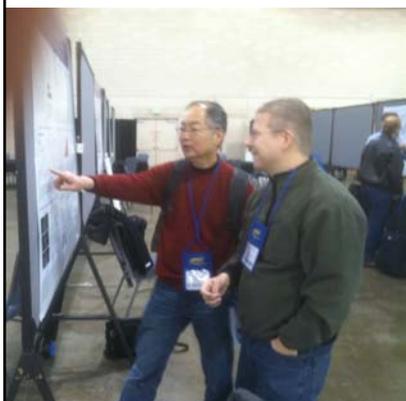


We make it visible.



300+ in attendance

They stops by at Gyuri's poster



George & Dave discusses a superresolution technology

Péter Várnai in Philly



New students
in the lab:
Caitlin, the
STAR of the
New Jersey
Aquarium
& **Elorm**, a
student of
both Temple
and TJU.



In May, visit of the Barcelona University Hospital
with Dr. Rubin, to meet Dr. Joaquin Fernandez, and
other experts of human alcoholism research





Valentina Debattisti
joins the lab



JeffHall undergoes renovation inside and outside



5East: construction of the future home of the Center for Mitochondrial Imaging Research and Diagnostics, MitoCare



One of the most heroic projects of the lab and many collaborators concluded in June:



976 Cell Metabolism 17, 976–987, June 4, 2013 ©2013 Elsevier Inc.

Cell Metabolism
Article

MICU1 Controls Both the Threshold and Cooperative Activation of the Mitochondrial Ca^{2+} Uniporter

György Csordás,^{1,8} Tünde Golenár,^{1,8} Erin L. Seifert,^{1,8} Kimberli J. Kamer,² Yasemin Sancak,^{2,3} Fabiana Perocchi,^{2,3,6} Cynthia Moffat,¹ David Weaver,¹ Sergio de la Fuente Perez,¹ Roman Bogorad,⁴ Victor Koteliensky,^{5,7} Jeffrey Adjianto,¹ Vamsi K. Mootha,^{2,3,*} and György Hajnóczky^{1,*}

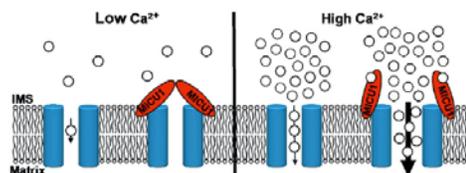
¹Department of Pathology, Anatomy, and Cell Biology, Thomas Jefferson University, Philadelphia, PA 19107, USA

²Department of Molecular Biology, Massachusetts General Hospital, Boston, MA 02114, USA

³Department of Systems Biology, Harvard Medical School and Broad Institute, Cambridge, MA 02142, USA

⁴Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, Cambridge, MA 02139, USA

⁵Ainylam Pharmaceuticals Inc., Cambridge, MA 02142, USA

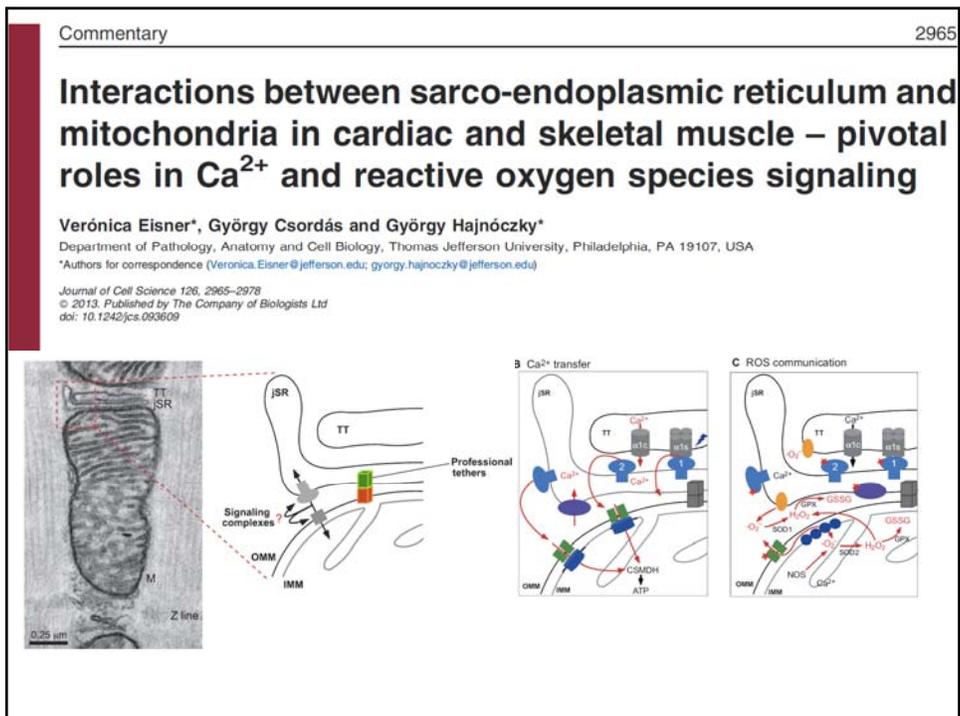


In June,
Verónica wins
the poster
presentation
award at
TJU's 2013
Postdoctoral
Fellow
Conference



FASEB Summer Conference
on Mitochondria in Montana





Top score of Gyuri's NIH grant

PROGRAM CONTACT: **SUMMARY STATEMENT**
 renee wong (Privileged Communication) *Release Date:* 08/20/2013
 301-451-6808
 wongr2@nhlbi.nih.gov

Application Number: 1 R01 HL122124-01

Principal Investigators (Listed Alphabetically):

CSORDAS, GYORGY MD
 SHEU, SHEY-SHING PHD (Contact)

Applicant Organization: THOMAS JEFFERSON UNIVERSITY

Review Group: ZRG1 CVRS-M (02)

Center for Scientific Review Special Emphasis Panel
 Member Conflict: Mitochondria, Cardiac metabolism and Cardiac protection

Meeting Date: 08/01/2013

RFA/PA: PA11-260

Council: OCT 2013

PCC: HHHF N

Requested Start: 12/01/2013

Dual PCC: P253VA

Dual IC(s): GM, AG

Project Title: ~~Mitochondria-SR Tethering: Its Role in Cardiac Bioenergetics and Ca²⁺ Dynamics~~

SRG Action: Impact Score: 13 Percentile: 1 #

Next Steps: Visit http://grants.nih.gov/grants/next_steps.htm



MITOCIRCLE 2013 Fall:

September 19th Harpreet Singh, Ph.D. (Drexel University)
 "Molecular Identity of cardiac mitoBKCa channels"

October 17th Randy Strich, Ph.D. (Rowan University)
 "Stress-induced nuclear to cytoplasmic translocation of cyclin C induces mitochondrial fragmentation and apoptosis"

November 21st Michel Ovize, M.D., Ph.D. (University of Lyon, France)

December 19th Ross Summer, M.D. (Thomas Jefferson University)

Melanie Paillard and the youngsters arrive to Philly



Humbert De Smedt retirement ceremony September at Leuven, Belgium





Snapshots of a day in October at the
biochemistry and PTIs



Shamim & Dave



Melanie & Nima

The youngest
attendees of
the 2013 AHA
meeting,
Dallas

Melanie, Ludo
and their Kids



Michel Ovize,
Melanie's
mentor
visits Philly
and the
MitoCircle



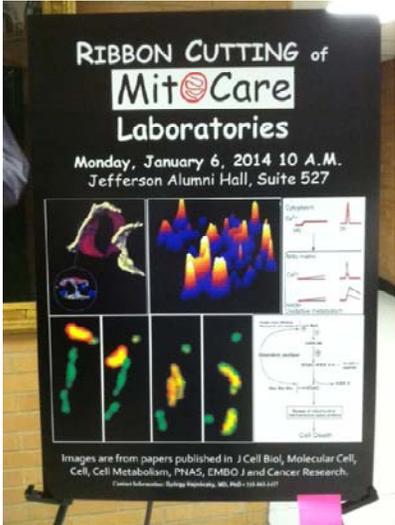
One of the first
experiments with the
MICU1 knockout
mouse:
heart and skeletal
muscle mitochondria
are tested in two
PTI's at the same
time



Melanie, Valentina and Verónica



Exciting closure: December 31st, 2013



MitoCare Team

Inaugural MitoCare Faculty



György Csordás M.D.	Suresh K. Joseph Ph.D.	Erin L. Seifert Ph.D.	György Hajnóczky M.D., Ph.D.	Jan B. Hoek Ph.D.
------------------------	---------------------------	--------------------------	---------------------------------	----------------------

Sergio de la Fuente, Ph.D.	David Booth, Ph.D.	Edita Aksamitiene, Ph.D.
Cynthia Moffat, M.S.	Valentina Debattisti, Ph.D.	Anil Noronha Antony
Peter Lynch	Verónica Eisner, Ph.D.	Jason Correnti, Ph.D.
Nima Niknejad, Ph.D.	Aniko Gal, Ph.D.	Egle Juskeviciute, Ph.D.
Melanie Paillard, Ph.D.	Tünde Golenár, M.S.	Lauren Rouleau
David Weaver, M.S.	Shamim Naghdi, Ph.D.	Aditi Swarup, M.S.
Ryan Cupo		