MAX-PLANCK-INSTITUT FÜR PHYSIK KOMPLEXER SYSTEME

International Workshop on

Experimental and Theoretical Calcium Dynamics

October 24 – 27, 2000

Scientific Coordinators:

M. Falcke	J. D. Lechleiter	D. Malchow	J. Sneyd
MPI-PKS Dresden, Germany	University of Texas San Antonio, USA	University of Konstanz Konstanz, Germany	Massey University Auckland, New Zealand

Max Planck Institute for the Physics of Complex Systems
Nöthnitzer Straße 38
D-01187 Dresden
Tel.: +49-351-871-2105; Fax: +49-351-871-2199
http://www.mpipks-dresden.mpg.de/~calcium

WORKSHOP PROGRAM

MONDAY, OCTOBER 23

18:00	REGISTRATION
19:00	Welcome reception (Cafeteria at the Max Planck Institute)

TUESDAY, OCTOBER 24

08:15 – 08:30	OPENING
	CHAIR: MARTIN FALCKE
08:30 – 09:05	**Albert Goldbeter** (Brussels) *From simple to complex calcium oscillations*
09:05 – 09:40	**Ursula Kummer** (Heidelberg) *Different information encoded in qualitatively different patterns of calcium dynamics*
09:40 – 10:15	**Klaus Prank** (Hannover) *Quantifying the information coded in the amplitude and interspike interval of intracellular calcium spikes*
10:15 – 10:45	COFFEE BREAK
	CHAIR: IAN PARKER
10:45 – 11:20	**Trevor Shuttleworth** (Rochester) *Reciprocal regulation of calcium entry pathways and the control of calcium oscillations*
11:20 – 11:55	**Christina Schlatterer** (Konstanz) *Calcium and oscillations in Dictyostelium discoideum*
11:55 – 12:30	**U. B. Kaupp** (Jülich) *How to make a* Ca^{2+} *sensitive pore*
12:30	LUNCH
	CHAIR: JAMES D. LECHLEITER
14:00 – 14:35	**Anthony Galione** (Oxford) *Roles for cADPR and NAADP in calcium signalling*
14:35 – 15:10	**Nicholas C. Spitzer** (La Jolla) *Global and local regulation of neuron differentiation by spontaneous calcium transients*
15:10 – 15:45	**Ole H. Petersen** (Liverpool) *Direct visualization of fast* Ca^{2+} *movements inside the endoplasmic reticulum*
15:45 – 16:15	COFFEE BREAK
	CHAIR: U. B. KAUPP
16:15 – 16:50	**Marisa Jaconi** (Geneva) *Inositol-(1,4,5)trisphosphate regulation of cardiac automaticity*
16:50 – 17:25	**Llewelyn Roderick** (San Antonio) *Bidirectional communication between the cytosol and the endoplasmic reticulum by calcium*
17:25 – 18:00	**James D. Lechleiter** (San Antonio) *Control of IP3-mediated* Ca^{2+} *Puffs in Xenopus laevis oocytes by the* Ca^{2+} *binding protein parvalbumin*
18:00	SUPPER
19:30	POSTER SESSION: 2nd floor

WORKSHOP PROGRAM

Wednesday, October 25

	Chair: Herbert Levine
08:30 – 09:05	**Ian Parker** (Irvine) *Role of elementary Ca^{2+} puffs in generating repetitive global Ca^{2+} waves*
09:05 – 09:40	**Colin W. Taylor** (Cambridge) *Regulation of IP_3 receptors by Ca^{2+} and IP_3 and of the Ca^{2+} stores by parathyroid hormone*
09:40 – 10:15	**Martin Bootman** (Cambridge) *Local and global calcium signalling*
10:15 – 10:45	Coffee break
	Chair: Martin Bootman
10:45 – 11:20	**Suresh Joseph** (Philadelphia) *Measuring the activity of recombinant IP_3R channels*
11:20 – 11:55	**John Pearson** (Los Alamos) *Modeling the dynamics of the IP3 receptor*
11:55 – 12:30	**Herbert Levine** (La Jolla) *The role of stochasticity in intracellular calcium wave dynamics*
12:30	Lunch
	Chair: Colin W. Taylor
14:00 – 14:35	**Ilya Bezprozvanny** (Dallas) *Inositol trisphosphate receptors and calcium signalling*
14:35 – 15:10	**Irene Schulz** (Homburg) *Hormone induced Ca^{2+} waves and their modulation by intracellular Ca^{2+} stores in isolated mouse pancreatic acinar cells*
15:10 – 15:45	**David Yule** (Rochester) *Intracellular Ca^{2+} waves in exocrine cells: a role of IP_3 and ryanodine receptors*
15:45 – 16:15	Coffee break
	Chair: Ilya Bezprozvanny
16:15 – 16:50	**Leslie Loew** (Farmington) *Morphological control of intracellular calcium signals*
16:50 – 17:25	**Gary Bird** (Research Triangle Park) *Role of the phospholipase C - inositol 1,4,5-trisphosphate pathway in calcium entry*
17:25 – 18:00	**Manfred Wussling** (Halle) *Calcium dynamics of living cells compared to cell organelles embedded in agarose gel*
18:00	Supper
19:30	Poster Session: 2nd floor

WORKSHOP PROGRAM

Thursday, October 26

	Chair: Marisa Jaconi
08:30 – 09:05	**Karlene Gunter** (Rochester) *The rapid mode of mitochondrial Ca^{2+} uptake:* *Characteristics in liver, heart, and brain mitochondria*
09:05 – 09:40	**Thomas E. Gunter** (Rochester) *Mitochondrial Ca^{2+} transport: Mechanisms* *and possible function*
09:40 – 10:15	**Guy A. Rutter** (Bristol) *Regulation of mitochondrial metabolism and secretory function by* *Ca^2+ in pancreatic islet β-cells*
10:15 – 10:45	Coffee break
	Chair: Trevor J. Shuttleworth
10:45 – 11:20	**David Friel** (Cleveland) *ER/mitochondrial contribution to neuronal Ca^{2+} signaling:* *qualitative insights from quantitative Ca^{2+} flux measurements*
11:20 – 11:55	**Marko Marhl** (Maribor) *The role of mitochondria in complex calcium oscillation*
12:00	Lunch
14:00	Excursion to Pillnitz Castle and Workshop Dinner in 'Villa Marie' • departure at landing stage 1 (Brühlsche Terrasse) at 14:00 • departure at landing stage in Pillnitz at 17:45 • arrival landing stage 'Loschwitz' at 18:15 • 18:30 Workshop Dinner in 'Villa Marie'

WORKSHOP PROGRAM

FRIDAY, OCTOBER 27

	CHAIR: JAMES SNEYD
08:30 – 09:05	**Andrew Charles** (Los Angeles) *Intercellular calcium signaling in neurons and astrocytes mediated by connexins*
09:05 – 09:40	**Hans G. Othmer** (Minneapolis) *Extracellular messengers in glial cells: their role in calcium wave propagation*
09:40 – 10:15	**Thomas H. Steinberg** (St. Louis) *ATP- and gap junction-mediated intercellular calcium signalling*
10:15 – 10:45	COFFEE BREAK
	CHAIR: NICHOLAS SPITZER
10:45 – 11:20	**Bernhard Zimmermann** (Potsdam) *Control of IP_3-induced Ca^{2+} oscillations and waves in an insect salivary gland*
11:20 – 11:55	**Andrew P. Thomas** (Newark) *Periodic calcium waves and intercellular signalling*
11:55 – 12:30	**Laurent Combettes** (Orsay) *Mechanism of intercellular calcium waves in hepatocytes*
12:30	LUNCH
	CHAIR: ANTONY GALIONE
14:00 – 14:35	**Thomas Höfer** (Berlin) *A model of intercellular calcium waves in astrocyte networks*
14:35 – 15:10	**Roger C. Young** (Charleston) *Contractility of pregnant human myometrium: action potential, calcium waves, and tissue level signalling*
15:10 – 15:40	COFFEE BREAK
15:40 – 16:15	**Michael Sanderson** (Worcester) *A Ca^{2+} wave for everybody*
16:15 – 16:50	**Ileana Micu** (Aberdeen) *Physiological electric field induced calcium transients in corneal epithelial cells*
16:50	CLOSING SPEECH
18:00	SUPPER

Poster Session

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1. Vladimir Berest
   Calcium dependent pathway of the effect of gramicidin S on human blood platelets

2. Andreas Bohn
   Putative role of calcium in the spatio-temporal organization of a plant circadian system

3. Tony Collins
   Mitochondrial uniporter desensitisation underlies the failure of mitochondria to sequester rapidly oscilating cytosolic calcium signals

4. Alexandra Göbel and Elmar Krause
   Activation of I(CRAC) by cytoplasmic [Ca] below the resting level

5. Werner Horbelt
   Comparison of models for determining Ca^{2+} release flux from measured Ca^{2+} transients in skeletal muscle cells

6. Corneliu Stefan Pencea
   Excitable calcium stores and signal processing

7. Antonio Politi
   Synchronization of calcium oscillations in gap-junction coupled cells

8. Ralph Peter Schuhmeier
   Determining the calcium flux from internal stores in C2C12 myotubes

9. Stefan Schuster
   Bifurcation analysis of calcium oscillations

10. Hanna Tinel
    Calcium signalling in human uterine epithelial cells during apical adhesion of trophoblast-like JAR cells

FREQUENTLY ASKED QUESTIONS

- Workshop Secretariat: Monday – Friday, 8 am – 4.45 pm, room 2 A 5.
- Offices of scientific coordinators: M. Falcke (1 B 6, Tel.: 1206), J. D. Lechleiter, D. Malchow, and James Sneyd (2 A 9, Tel.: 2109)
- Reading e-mails: If you want to read your e-mails please use the workstations in 2 A 16 and 2 A 20. You can login into your account by using a telnet session on an X-terminal. Click on 'Terminals' and on 'New Telnet'.
- Copying Machines: You can use the copying machines in 1 C 11 and 2 C 11.
- How to get to the Restaurant 'Villa Marie' in Fahrgässchen 1: Take the tram no. 3 in direction 'Wilder Mann' until the stop 'Pirnaischer Platz'. Take the tram no. 12 in direction 'Striesen' or the tram no. 6 in direction 'Bf. Niedersedlitz' until the stop 'Schillerplatz'. Go straight ahead towards the bridge 'Das Blaue Wunder'. The restaurant 'Villa Marie' is under the bridge 'Das Blaue Wunder' on the left hand side.
- For those accommodated in the guest houses:
  - breakfast is served from 7 am to 8:30 am during the week and from 8 am to 10 am during weekends in the cafeteria of the main building.
  - please vacate your guest house room before 9 am on the day of your departure.
  - guest house key: you can use your guest house key for entering the institute and the library. Inside the blue part of the key there is a chip. Move along the small box at each entrance and after a beep you can open the door.
  - washing machines: there is the possibility to wash your clothes in the basement of guest house no. 2. Please dry your clothes there and not in your room.
  - what to do with the keys when leaving? Either give them to Ludmilla Wewer (2 A 5), or drop them into the box next to the exit of the guest house.
- For those accommodated in the hotel: If you wish to enter the institute or the library late in the evening, you can get a chip card. Just sweep it along the small box at each entrance. After a beep, you can open the door. You can obtain your chip card from Ludmilla Wewer. Please return it before leaving.
- Poster Sessions: 2nd floor in the main building.

- If you have any further questions or suggestions, please contact Ludmilla Wewer.

List of Participants

Name/Address	Email	Telephone/Fax
Markus Bär Max-Planck-Institut für Physik komplexer Systeme Nöthnitzer Str. 38 01187 Dresden Germany	baer@mpipks-dresden.mpg.de	+49-351-871-2218 +49-351-871-1999
Thomas Böck Max-Planck-Institut für Physik komplexer Systeme Nöthnitzer Str. 38 01187 Dresden Germany	boeck@mpipks-dresden.mpg.de	+49-351-871-2221 +49-351-871-1999
Michael Barber Universität zu Köln Institut für Theor. Physik Zülpicher Str. 77 50937 Köln Germany	mjb@thp.uni-koeln.de	+49-221-470-3642 +49-221-470-5159
Vladimir Berest Kharkov National University Radiophysics Department 4 Svobody Sq. 61077 Kharkov Ukraine	Vladimir.P.Berest@univer.kharkov.ua	+38-0572-457-576 +38-0572-471-816
Albrecht Bergner University of Massachusetts Medical School Department of Physiology 55 Lake Avenue North Worcester, MA 01655 USA	Albrecht.Bergner@umassmed.edu	+1-508-856-5997 +1-508-856-6024
Ilya Bezprozvanny University of Texas Southwestern Medical Center Department of Physiology 5323 Harry Hines Blvd. Dallas, TX 75390-9040 USA	Ilya.Bezprozvanny@email.swmed.edu	+1-214-648-6737 +1-214-648-2974
Gary Bird NIEHS National Institute of Health 111, Alexander Dr. Research Triangle Park, NC 27709 USA	bird@niehs.nih.gov	+1-919-541-0214 +1-919-541-1898

List of Participants

Name/Address	Email	Telephone/Fax
Andreas Bohn Institute of Applied Physics Nonlinear Dynamics Hochschulstr. 4 a 64289 Darmstadt Germany	andreas.bohn@physik.tu-darmstadt.de	+49-6151-16-3379 +49-6151-16-3279
Martin Bootman The Babraham Institute Laboratory of Molecular Signalling Babraham Cambridge CB2 4AT UK	martin.bootman@bbsrc.ac.uk	+44-1223-496-515 +44-1223-496-033
Andrew Charles UCLA Department of Neurology 710 Westwood Plaza Los Angeles, CA 90095 USA	acharles@ucla.edu	+1-310-794-1870 +1-310-794-1871
Tony Collins Babraham Institute Laboratory of Molecular Signalling Babraham Hall, Babraham Cambridge CB2 4AT UK	tony.collins@bbsrc.ac.uk	+44-122-349-6499
Laurent Combettes INSERM U442 Bat 443, UPS Orsay 91405 Orsay Cedex France	laurent.combettes@ibaic.u-psud.fr	+33-1-6915-7072 +33-1-6915-5893
Babette Dellen Universität zu Köln Theoretische Physik Berrenratherstr. 433 50937 Köln Germany	bdellen@smail.uni-koeln.de	+49-221-430-4749
Martin Falcke Max-Planck-Institut für Physik komplexer Systeme Nöthnitzer Str. 38 01187 Dresden Germany	falcke@mpipks-dresden.mpg.de	+49-351-871-1206 +49-351-871-1999

List of Participants

Name/Address	Email	Telephone/Fax
David Friel Case Western Reserve University Department of Neurosciences 10900 Euclid Avenue Cleveland, OH 44106 USA	ddf2@po.cwru.edu	+1-216-368-4930 +1-216-368-4650
Alexandra Göbel Universität des Saarlandes Physiologisches Institut Gebäude 58 66421 Homburg/Saar Germany	phagoe@med-rz.uni-saarland.de	+49-6841-166-171 +46-6841-166-655
Antony Galione University of Oxford Department of Pharmacology Mansfield Road Oxford OX1 3QT UK	antony.galione@pharm.ox.ac.uk	+44-1865-271-633 +44-1865-271-853
Albert Goldbeter Université Libre de Bruxelles Faculté des Sciences Campus Plaine, CP 231 1050 Brussels BELGIUM	agoldbet@ulb.ac.be	+32-2-650-5772 +32-2-650-5767
Karlene Gunter University of Rochester Medical School Department for Biochem. & Biophys. 575 Elmwood Ave. Rochester, NY 14642 USA	karlene.gunter@urmc.rochester.edu	+1-716-275-3753 +1-716-275-6007
Thomas Gunter University of Rochester Medical School Dep. of Biochemistry & Biophysics P.O.Box 712 601 Elmwood Ave. Rochester, NY 14642 USA	$Thomas_{G}unter$@urmc.rochester.edu	+1-716-275-3129 +1-716-275-6007

List of Participants

Name/Address	Email	Telephone/Fax
Thomas Höfer Humboldt-Universität Berlin Theoretische Biophysik Institut für Biologie Invalidenstr. 42 10115 Berlin Germany	thomas.hoefer@rz.hu-berlin.de	+49-30-2093-8592 +49-30-2093-8813
Werner Horbelt Universität Freiburg Fakultät für Physik Hermann-Herder-Str. 3 79104 Freiburg Germany	horbelt@physik.uni-freiburg.de	+49-761-203-5764 +49-761-203-5967
Marisa Jaconi Lab. de Biologie du Vieillissement Départmente de Gériatrie Batiment des Laboratoires 2, Chemin du Petit Bel-Air 1225 Chene-Bourg-Geneva Switzerland	jaconi@cmu.unige.ch	+41-76-580-4117 +41-22-305-5455
Suresh Joseph Thomas Jefferson University Department of Pathology 1020 Locust St. Philadelphia PA 19107 USA	Suresh.Joseph@mail.tju.edu	+1-215-503-1222 +1-215-923-6813
U. B. Kaupp Forschungszentrum Jülich GmbH Institut für Biologische Inform.-verarb. 52425 Jülich Germany	a.eckert@fz-juelich.de	+49-2461-61-4041 +49-2461-61-4216
Elmar Krause Universität des Saarlandes Physiological Institute Gebäude 58 66421 Homburg Germany	krause@med-ph.uni-sb.de	+49-6841-166-171 +49-6841-166-655
Ursula Kummer European Media Laboratory Bioinformatics and Computational Biochemistry Group Wolfsbrunnenweg 33 69118 Heidelberg Germany	ursula.kummer@eml.org	+49-6221-533-225 +49-6221-533-298

List of Participants

Name/Address	Email	Telephone/Fax
James D. Lechleiter University of Texas Dep. of Cellular and Str. Bio. Science Center at San Antonio 7703 Floyd Curl Drive San Antonio, TX 78229-3900 USA	leichleiter@uthscsa.edu	+1-210-567-6254 +1-210-567-6781
Herbert Levine UCSD Department of Physics 9500 Gilman Drive La Jolla, CA 92093-0319 USA	hlevine@ucsd.edu	+1-858-534-4844 +1-858-534-7697
Leslie M. Loew University of Connecticut Health Center Center for Biomedical Imaging Technology Farmington, CT 06030-1507 USA	les@volt.uchc.edu	+1-860-679-3568 +1-860-679-1039
Dieter Malchow Universität Konstanz Fakultät für Biologie Universitätsstr. 10 78464 Konstanz Germany	Renate.Gimmi@uni-konstanz.de	+1-7531-882-114 +1-7531-882-966
Marko Marhl University of Maribor Department of Physics Faculty of Education Koroska Cesta 160 2000 Maribor Slovenia	marko.marhl@uni-mb.si	+386-62-229-3643 +386-62-218-180
Ileana Micu University of Aberdeen Institute of Medical Sciences Department of Biomedical Sciences Foresterhill Aberdeen, AB25 2ZD Scotland, UK	ileana.micu@abdn.ac.uk	+44-122-427-3074 +44-122-427-3019
Michal Or-Guil Max-Planck-Institut für Physik komplexer Systeme Nöthnitzer Str. 38 01187 Dresden Germany	orguil@mpipks-dresden.mpg.de	+49-351-871-2214 +49-351-871-1999

List of Participants

Name/Address	Email	Telephone/Fax
Hans Othmer University of Minnesota Department of Mathematics 270A Vincent Hall Minneapolis, MN 55455 USA	othmer@math.umn.edu	+1-612-624-8325 +1-612-626-2017
Martin Ott Universität Konstanz Cherisystr. 10 78467 Konstanz Germany	Martin.Ott@uni-konstanz.de	+49-7531-693-191
Ian Parker University of California Department of Neurobiology and Behavior Irvine, CA 92697-4550 USA	iparker@uci.edu	+1-949-824-7332 +1-949-824-2447
John Pearson Los Alamos National Laboratory X-8 MS F645 Los Alamos, NM 87545 USA	pearson@lanl.gov	+1-505-667-7585 +1-505-665-4479
Corneliu Stefan Pencea Emory University Department of Physics Atlanta 30322, Georgia USA	cpencea@emory.edu	+1-404-727-9295 +1-404-727-0873
Ole H. Petersen The University of Liverpool The Physiological Laboratory Crown St., PO BOX 147 Liverpool L69 3BX UK	o.h.petersen@liverpool.ac.uk	+44-151-794-5342 +44-151-794-5323
Helmut Podhaisky Martin-Luther-Univ. Halle Institut für Numerische Mathematik Theodor-Lieser-Str. 5 06099 Halle Germany	podhaisky@mathematik.uni-halle.de	+49-345-55-24656 +49-345-55-27004

List of Participants

Name/Address	Email	Telephone/Fax
Antonio Politi Humboldt University Berlin Institute of Biology Theoretical Biophysics Invalidenstr. 42 10115 Berlin Germany	politi@hpbio1.biologie.hu-berlin.de	+49-30-2093-8694 +49-30-2093-8813
Klaus Prank Medical School Hannover Computational Endocrinology Group Dep. of Clinical Endocrinology Carl-Neuberg-Str. 1 30625 Hannover Germany	Prank.Klaus@mh-hannover.de	+49-511-532-3827 +49-511-532-3825
Llewelyn Roderick UTHSC at San Antonio Department of Physiology 7703 Floyd Curl Drive San Antonio, TX 78240 USA	roderick@uthscsa.edu	+1-210-567-6636 +1-210-567-4410
Guy Rutter University of Bristol Biochemistry School of Medical Sciences University Walk Bristol BS8 1TD UK	g.a.rutter@bris.ac.uk	+44-117-928-9724 +44-117-928-8274
Michael Sanderson University of Massachusetts Medical School Department of Physiology 55 Lake Avenue North Worcester, MA 01655 USA	Michael.Sanderson@umassmed.edu	+1-508-856-6024 +1-508-856-5997
Christina Schlatterer Universität Konstanz Fachbereich Biologie 78457 Konstanz Germany	Christina.Schlatterer@uni-konstanz.de	+49-7531-882-479 +49-7531-882-966

List of Participants

Name/Address	Email	Telephone/Fax
Ralph Peter Schuhmeier University of Ulm Dep. of Applied Physiology Albert-Einstein-Allee 11 89069 Ulm Germany	ralph.schuhmeier@medizin.uni-ulm.de	+49-731-50-23229 +49-731-50-23229
Irene Schulz Universität des Saarlandes Physiologie Gebäude 58 66421 Homburg Germany	schulz@med-ph.uni-sb.de	+49-6841-16-6450 +49-6841-16-6655
Stefan Schuster Max Delbruck Center for Molecular Medicine Robert-Rössle-Str. 10 13092 Berlin Germany	schuster@hpbio1.biologie.hu-berlin.de	+49-30-9406-3125 +49-30-9406-2834
Trevor J. Shuttleworth University of Rochester Medical Center Dep. of Pharmacology and Physiology 601 Elmwood Avenue Rochester, NY 14642 USA	$trevor_shuttleworth$@urmc.rochester.edu	+1-716-275-2076 +1-716-273-2652
James Sneyd Massey University Albany Campus Private Bag 102-904 North Shore Mail Centre Auckland New Zealand	j.sneyd@massey.ac.nz	+64-9-443-9799 +64-9-441-8181
Nicholas Spitzer University of California San Diego Department of Biology and Center for Molecular Genetics La Jolla, CA 92093-0357 USA	nspitzer@ucsd.edu	+1-858-534-3896 +1-858-534-7309

List of Participants

Name/Address	Email	Telephone/Fax
Thomas H. Steinberg Washington University School of Medicine Infectious Diseases, Box 8051 660 South Euclid Avenue St. Louis, MO 63110 USA	steinber@id.wustl.edu	+1-314-362-9218 +1-630-604-2700
Colin W. Taylor Department of Pharmacology Tennis Court Road Cambridge CB2 1QJ UK	cwt1000@cam.ac.uk	+44-1223-334-058 +44-1223-334-058
Andrew P. Thomas UMDNJ-New Jersey Medical School Department of Pharmacology and Physiology 185 South Orange Avenue - MSB H609 Newark, NJ 07103-2714 USA	thomasap@umdnj.edu	+1-973-972-4460 +1-973-972-7950
Hanna Tinel Max-Planck-Institut für molekulare Physiologie Otto-Hahn-Str. 11 44227 Dortmund Germany	hanna.tinel@mpi-dortmund.mpg.de	+49-231-133-2226 +49-231-133-2699
Manfred Wussling Julius Bernstein Institute of Physiology Magdeburger STr. 6 06097 Halle (Saale) Germany	manfred.wussling@medizin.uni-halle.de	+49-345-557-1392 +49-345-557-4110
Kojiro Yano University of Liverpool The Physiological Laboratory Crown Street Liverpool L69 3BX UK	kojiroyano@yahoo.co.uk	+44-151-281-3331 +44-151-281-3261
Roger Young Department of Obstetrics and Gynaecology 96 Jonathan Lucas St. Suite 634 Charleston, SC 29425 USA	youngr@musc.edu	+1-843-792-4510 +1-843-792-0533

List of Participants

Name/Address	Email	Telephone/Fax
David I. Yule University of Rochester Medical Center Room 4-5314 Dep. of Pharmacology and Physiology 601 Elmwood Avenue Rochester, NY 14642 USA	$David_Yule$@URMC.Rochester.edu	+1-716-273-2154 +1-716-244-9283
Bernhard Zimmermann Universität Potsdam Institut für Zoophysiologie und Zellbiologie Universität Potsdam Lennéstr. 7 A 14471 Potsdam Germany	zimmerm@rz.uni-potsdam.de	+49-331-977-4880 +49-331-977-4861