

**10th Symposium of
the European Ca²⁺ Society on
Ca²⁺-Binding Proteins
in
Normal and Transformed Cells**

Campus Gasthuisberg K.U.Leuven, Leuven

Belgium

17-20 September 2008

Scientific committee

Humbert DE SMEDT (Leuven, BE)
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Jan B. Parys (KULeuven)
Roland Pochet (ULB)
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Frank Wuytack (KULeuven)

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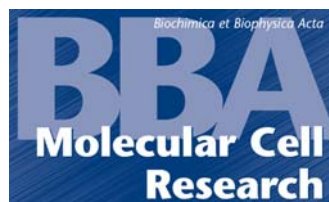
Scientific Program

Wednesday, 17 September 2008

13.00 - 19.00	Registration Desk Open - Welcome Coffee	ARRIVAL AND REGISTRATION
19.00 - 19.05	F. Wuytack (Leuven, Belgium)	WELCOME

SIR MICHAEL BERRIDGE LECTURE

Lecture sponsored by BIOCHIMICA BIOPHYSICA ACTA



Chair: Sir M. Berridge (Cambridge, UK)

19.05 - 20.00	C. Toyoshima (Tokyo, Japan)	HOW Ca ²⁺ ATPase PUMPS IONS ACROSS THE SARCOPLASMIC RETICULUM MEMBRANE
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20.00 - 23.00 : WELCOME RECEPTION

Thursday, 18 September 2008

SESSION 1: T- AND L-TYPE Ca²⁺ CHANNELS, TRPS AND STIM/ORAI

Session sponsored by NOVARTIS



Chair: B. Nilius (Leuven, Belgium)

9.00 – 9.30	P. Lory (Montpellier, France)	T-TYPE Ca ²⁺ CHANNELS IN HEALTH AND DISEASE
9.30 – 10.00	G.W. Zamponi (Calgary, Canada)	VOLTAGE-GATED Ca ²⁺ CHANNELS AND PAIN
10.00 – 10.30	D. Pietrobon (Padova, Italy)	CALCIUM CHANNELS AND MIGRAINE

10.30 – 11.00: BREAK

Chair : D. Pietrobon (Padova, Italy)

11.00 – 11.30	R.S. Lewis (Palo Alto, USA)	A MOLECULAR MECHANISM FOR CRAC CHANNEL ACTIVATION
11.30 – 12.00	T. Gudermann (Marburg, Germany)	TRPC CHANNELS AND PULMONARY HYPOXIA
12.00 - 12.15	V.M. Bolotina (Boston, USA)	RNA EDITING OF Orai1 IS A KEY TO DIFFERENT Ca ²⁺ SELECTIVITY OF STORE-OPERATED CHANNELS IN EXCITABLE AND NON-EXCITABLE CELLS
12.15 - 12.30	J.T Smyth (NIH, USA)	STORE-OPERATED CALCIUM ENTRY IS SUPPRESSED DURING MITOSIS DUE TO PHOSPHORYLATION OF THE ENDOPLASMIC RETICULUM CALCIUM SENSOR STIM1

12.30 – 14.45: LUNCH AND POSTER SESSION

**13.30-14.00 SPECIAL PRESENTATION BY OLYMPUS:
(Luminescence Microscopy with Olympus Luminoview LV200 System: a novel optical system for detection of gene expression and Ca²⁺ imaging in individual cells and tissue slices, by Dr Werner Kammerloher)**

SESSION 2: S100 AND Ca²⁺-BINDING PROTEINS

Chair: C. Heizmann (Zurich, Switzerland)

14.45 – 15.15	A.-M. Schmidt (New York, USA)	RAGE, DIABETES AND INFLAMMATION RESPONSES
15.15 – 15.45	W. Chazin (Nashville, USA)	STRUCTURE OF RAGE AND MECHANISM OF ACTIVATION BY S100 PROTEINS
15.45 – 16.00	E. Leclerc (Zurich, Switzerland)	INTERACTION OF RAGE WITH S100 PROTEINS: AN UPDATE
16.00 – 16.15	U. Wojda (Warsaw, Poland)	CALMYRIN 2, A NOVEL EF-HAND Ca ²⁺ - BINDING PROTEIN, IS INDUCED IN NEURONS BY NMDA RECEPTOR ACTIVATION
16.15 – 16.30	M.C. Stockebrand (Hamburg, Germany)	ANALYSIS OF NCS-1 INTERACTIONS USING TRANSGENIC MICE EXPRESSING NCS-1-EGFP FUSION PROTEIN IN FOREBRAIN

16.30 – 17.00: BREAK

SESSION 3: Ca²⁺-DEPENDENT EXOCYTOSIS

Chair: T. Voets (Leuven, Belgium)

17.00 – 17.30	R. Schneggenburger (Lausanne, Switzerland)	DEVELOPMENTAL REGULATION OF Ca ²⁺ -SECRETION COUPLING AT A LARGE CNS SYNAPSE
17.30 – 18.00	R. Fernandez-Chacon (Seville, Spain)	DOWNSIZING OF AMPA MEDIATED mEPSCS AND REDUCTION OF GABAergic SYNAPSES IN CYSTEINE STRING PROTEIN- α DEFICIENT HIPPOCAMPAL NEURONS
18.00 – 18.30	T. Moser (Göttingen, Germany)	Ca ²⁺ REGULATION OF HAIR CELL EXOCYTOSIS
18.30 – 18.45	M. Zeniou-Meyer (Strasbourg, France)	THE COFFIN-LOWRY SYNDROME- ASSOCIATED PROTEIN RSK2 IS IMPLICATED IN CALCIUM-REGULATED EXOCYTOSIS THROUGH THE REGULATION OF PLD1
18.45 – 19.00	H. Plattner (Konstanz, Germany)	WIDELY DIVERSE MODES AND SITES OF Ca ²⁺ SIGNALING AND SIGNAL DOWNREGULATION IN THE CILIATED PROTOZOAN, PARAMECIUM TETRAURELIA

20.00: RECEPTION AT THE CITY HALL

FREE EVENING

Friday, 19 September 2008

SESSION 4: Ca²⁺ STORES, Ca²⁺ ATPases, Ca²⁺ CHANNELS

Chair: F. Wuytack (Leuven, Belgium)

9.00 – 9.30	R. Rao (Baltimore, USA)	SECRETORY PATHWAY Ca ²⁺ , Mn ²⁺ ATPases
9.30 – 10.00	D.A. Eisner (Manchester, UK)	THE CONTROL OF SARCOPLASMIC RETICULUM CALCIUM IN THE HEART
10.00 – 10.30	A.G. Lee (Southampton, UK)	LIPID INTERACTIONS WITH Ca ²⁺ ATPASE

10.30 – 11.00: BREAK

Chair : H. De Smedt (Leuven, Belgium)

11.00 – 11.30	R. Rizzuto (Ferrara, Italy)	Ca ²⁺ LOADING IN THE ER-MITOCHONDRIA
11.30 – 12.00	I. Bezprozvanny (Dallas, USA)	PRESENILINS FUNCTION AS ENDOPLASMIC RETICULUM CALCIUM LEAK CHANNELS: IMPLICATIONS FOR ALZHEIMER'S DISEASE
12.00 – 12.15	J. Parrington (Oxford, UK)	IDENTIFICATION OF THE NAADP RECEPTOR AS A NOVEL CLASS OF ION CHANNELS
12.15 – 12.30	T. Blom (Helsinki, Finland)	MEASUREMENT OF CALCIUM SIGNALS DIRECTED TOWARDS CAVEOLAE

12.30 – 14.30 : LUNCH / POSTER SESSION

**13.30-14.00 SPECIAL PRESENTATION BY PERKIN-ELMER
(Luminescent photo-protein Ca²⁺ detection: a paradigm shift in GPCR drug
discovery, by Hans Pirard, European Sales Development Leader Cellular
Screening Systems)**

14.00 – 14.30	ECS GENERAL ASSEMBLY
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SESSION 5 : Ca²⁺ IN PLANTS

Chair : M. Moreau (Toulouse, France)

14.30 – 15.00	D. Sanders (York, UK)	THE Ca²⁺-PERMEABLE SV/TPC1 CHANNEL OF PLANTS: ELECTROPHYSIOLOGICAL PROPERTIES AND PHYSIOLOGICAL FUNCTION
15.00 – 15.30	J. Kudla (Münster, Germany)	A Ca²⁺ SENSOR / PROTEIN KINASE NETWORK FOR DECODING Ca²⁺ SIGNALS IN PLANTS
15.30 – 16.00	A.M. Hetherington (Bristol, UK)	PHOSPHORYLATED LONG CHAIN SPHINGOID BASES AS MESSENGERS IN PLANT SIGNALLING
16.00 – 16.15	P. Vatsa (Dijon, France)	INVOLVEMENT OF A PUTATIVE GLUTAMATE RECEPTOR IN CRYPTOGEIN-INDUCED PLANT DEFENSE RESPONSES

16.15 – 16.45: BREAK

SESSION 6: ANNEXINS

Chair: V. Gerke (Münster, Germany)

16.45 – 17.15	H. Haigler (Los Angeles, USA)	MEMBRANE-INDUCED STRUCTURAL CHANGES IN ANNEXINS
17.15 – 17.45	M.T. Hayes (London, UK)	v-Src INDUCED RUFFLING, MACROPINOCYTOSIS, FOCAL ADHESION REMODELLING AND CELLULAR TRANSFORMATION REQUIRE ANNEXIN 2
17.45 – 18.15	C. Reutelingsperger (Maastricht, The Netherlands)	ANNEXIN A5, A PLURIPOTENT MEMBER OF THE ANNEXIN FAMILY OF Ca²⁺- DEPENDENT PHOSPHOLIPID BINDING PROTEINS
18.15 – 18.30	K. Monastyrskaya (Bern, Switzerland)	PLASMA MEMBRANE TARGETED ANNEXIN A6 AFFECTS STORE-OPERATED Ca²⁺ ENTRY

20.00 CONFERENCE BANQUET

Saturday, 20 September 2008

SESSION 7: GROWTH AND DIFFERENTIATION

Chair: J.B. Parys (Leuven, Belgium)

9.00 – 9.30	R.A. Fissore (Amherst, USA)	REGULATION OF IP ₃ R1 BY M-PHASE KINASES DURING OOCYTE MATURATION: OPTIMIZATION OF THE Ca ²⁺ RELEASE ACTIVITY AND OF THE ER ORGANIZATION
9.30 – 10.00	M. Whitaker (Newcastle, UK)	CALCIUM SIGNALLING IN EARLY DEVELOPMENT
10.00 – 10.30	J.D. Molkenin (Cincinnati, USA)	HOW DOES CALCIUM REGULATE CARDIAC HYPERTROPHY?
10.30 – 10.45	A.M. Lompré (Paris, France)	RNA INTERFERENCE TARGETING STIM1 SUPPRESSES VASCULAR SMOOTH MUSCLE CELL PROLIFERATION AND NEOINTIMA FORMATION IN THE RAT
10.45 – 11.00	A. Schwab (Münster, Germany)	TRPC1 CHANNEL IS REQUIRED FOR CHEMOTAXIS TOWARDS FGF-2

11.00 – 11.30: BREAK

Chair: M. Whitaker (Newcastle, UK)

11.30 – 12.00	N. Prevarskaya (Lille, France)	CALCIUM AND CANCER: TARGETING Ca ²⁺ TRANSPORT
12.00 – 12.30	C.W. Distelhorst (Cleveland, USA)	CALCIUM AND CELL DEATH

PFLÜGERS ARCHIVE LECTURE

Lecture sponsored by Springer



Chair: B. Nilius (Leuven, Belgium)

12.30 – 13.00	M. Berridge (Cambridge, UK)	INOSITOL TRISPHOSPHATE AND CALCIUM SIGNALLING
13.00 – 13.10	ECS president (current + newly elected)	Concluding remarks

13.10 : END OF THE MEETING

POSTERS

- Posters are listed for each session in alphabetical order by presenting author (who is underlined).
- All posters of all sessions will be on display from Wednesday, Sept. 17th in the afternoon till the end of the Meeting on Saturday, Sept. 20th.
- Presenting authors are requested to attend their posters for discussion purpose from 13:30 till 14:30 (Thursday: even numbers; Friday: odd numbers).

SESSION A. PLASMA MEMBRANE Ca²⁺ CHANNELS AND Ca²⁺ ENTRY.

- A1. PROBING SUBSARCOLEMMA Ca²⁺ THROUGH CALCIUM-SENSITIVE ION TRANSPORT IN CARDIAC MYOCYTES. Acsai K., Antoons G. & Sipido K.R. (Belgium).
- A2. PKC-βII REGULATION COUNTERACTS ATP-MEDIATED EFFECTS ON TRPV6 CALCIUM CURRENTS AND POINTS TO A FUNCTIONAL DIFFERENCE BETWEEN TRPV6 POLYMORPHIC ALLELES. Al-Ansary D., Becherer U., Flockerzi V. & Niemeyer B.A. (Germany).
- A3. EXPRESSION AND LOCALIZATION OF CLASSICAL TRANSIENT RECEPTOR POTENTIAL CHANNELS (TRPCs) IN MAMMARY GLAND CELLS. Anantamongkol U., Vitayakritsirikul V., Suthiphongchai T., Prapong S., Rao M.C. & Krishnamra N. (Thailand).
- A4. CFTR PROTEIN DOWN REGULATES THE DAG-DEPENDENT Ca²⁺ INFLUX MEDIATED BY TRPC6 IN TRACHEAL EPITHELIAL CELLS. Antigny F., Becq F. & Vandebrouck C. (France).
- A5. LOCAL AND GLOBAL CALCIUM SIGNALS ASSOCIATED WITH THE OPENING OF NEURONAL α7 NICOTINIC ACETYLCHOLINE RECEPTORS. Gilbert D., Lecchi M., Arnaudeau S., Bertrand D. & Demaurex N. (Switzerland).
- A6. REGULATION OF NOX2 BY STORE-OPERATED Ca²⁺ ENTRY AND AN ALTERNATIVE PATHWAY: ROLE OF PKC/PI3K IN RAC2-DEPENDENT NOX2 ACTIVITY. Brechard S., Salsmann A. & Tschirhart E. (Luxemburg).
- A7. THE CALCIUM CHANNEL Ca_vβ4 SUBUNIT ACTS AS AN INDEPENDENT TRANSCRIPTION FACTOR. Tadmouri A., Kiyonaka S., Barbado M., Rousset M., Arnoult C., Dolmetsch R., Ronjat M., Mori Y. & De Waard M. (France).
- A8. TARGETING DIHYDROPYRIDINE RECEPTORS EXPRESSED BY Th2 CELLS PREVENTS EXPERIMENTAL ASTHMA. Djata Cabral M., Renoud M.L., Gomes B., Savignac M., Paulet P., Moreau M., Leclerc C., Guery J.C. & Pelletier L. (France).
- A9. FUNCTIONAL ANALYSIS OF THE CACNA1A MUTATION Y1245C ASSOCIATED TO CHILDHOOD PERIODIC SYNDROMES AND HEMIPLEGIC MIGRAINE. Serra S.A., Fernández-Castillo N., Cormand B., Macaya A., Valverde M.A. & Fernández-Fernández J.M. (Spain).
- A10. 8-BR-ADPR: A NOVEL ANTAGONIST OF TRPM2. Fliegert R., Siebrands C.C., Dammermann W., Partida-Sanchez S., Walseth T.F., Lund F. & Guse A.H. (Germany).
- A11. UNDERTAKER, A DROSOPHILA JUNCTOPHILIN, LINKS DRAPER AND DRCED-6 TO CALCIUM HOMEOSTASIS DURING PHAGOCYTOSIS. Franc N.C. (UK).
- A12. EFFECTS OF IRRITANT BITTER COMPOUNDS ON TRP CHANNELS OF THE CHEMOSENSORY SYSTEM. Gees M., Nilius B., Voets T. & Talavera K. (Belgium).
- A13. CAN WE DISCRIMINATE BETWEEN THE IONIC CURRENTS ACTIVATED BY AGONIST OR STORE DEPLETION IN ENDOTHELIAL CELLS? Girardin N. & Frieden M. (Switzerland).

- A14. STIM1 AND STIM2 ARE PRESENT IN MOUSE BRAIN NEURONS AND SHOW PUNCTA-LIKE COLOCALIZATION WITH ORAI1 UPON CALCIUM DEPLETION OF THE ER. Gruszczynska-Biegala J., Klejman M., Skibinska-Kijek A., Wisniewska M., Misztal K., Blazejczyk M., Bojarski L. & Kuznicki J. (Poland).
- A15. TRPA1 ACTS AS A COLD SENSOR IN VITRO AND IN VIVO. Karashima Y., Talavera K., Everaerts W., Janssens A., Nilius B. & Voets T. (Belgium).
- A16. T-TYPE CALCIUM SIGNALLING IN NOCICEPTION. Kostyuk P.G. & Kostyuk E.P. (Ukraine).
- A17. PRESENILIN 1 RELATED DISTURBANCES OF CALCIUM SIGNALING IN B CELLS ISOLATED FROM POLISH PATIENTS SUFFERING FROM ALZHEIMER'S DISEASE. Bojarski L., Pomorski P., Herms J. & Kuznicki J. (Poland).
- A18. IDENTIFICATION OF A CRITICAL AMINO ACID FOR STIM1-MEDIATED GATING OF CRACM. Lis A., Peinelt C., Monteilh-Zoller M., Fleig A. & Penner R. (USA).
- A19. THE STIM1-ORAI1 INTERACTION - A POTENTIAL THERAPUTIC TARGET IN THE TREATMENT OF PSORIASIS? Milner S.E., Ross K., Thody T & Reynolds N.J. (UK).
- A20. CONNEXIN HEMICHANNELS-MEDIATED Ca^{2+} ENTRY RESULTS IN NO PRODUCTION IN IN SITU INJURED ENDOTHELIAL CELLS. Avelino-Cruz J.E., Sánchez Hernandez Y., Berra-Romani R., Raqeeb A., Moccia F. & Tanzi F. (Italy).
- A21. COUPLING OF THE PUTATIVE COILED-COIL DOMAIN OF ORAI PROTEINS WITH STIM1 MEDIATES ORAI CHANNEL ACTIVATION. Muik M., Frischauf I., Derler I., Fahrner M., Eder P., Schindl R., Bergsmann J., Fritsch R., Groschner K. & Romanin C. (Austria).
- A22. MODULATION OF PMCA ACTIVITY BY LOCAL CALCIUM MICRODOMAIN NEAR CRAC CHANNEL IS CONTROLLED BY SUB-PLASMA MEMBRANE MITOCHONDRIA AFTER FORMATION OF THE IMMUNOLOGICAL SYNAPSE. Quintana A., Becherer U., Rettig J. & Hoth M. (Germany).
- A23. SLOW PHASE CYTOSOLIC CALCIUM CHANGES IN CULTURED CEREBELLAR ASTROCYTES DO NOT CORRELATE WITH VOLUME CHANGES OR GLUTAMATE UPTAKE. Ring A., Tanso R. & Bjurgren P. (Norway).
- A24. FAST Ca^{2+} -DEPENDENT INACTIVATION OF ORAI1/STIM1-MEDIATED CURRENT. Scrimgeour N., Litjens T., Ma L., Barritt G.J. & Rychkov G.Y. (Australia).
- A25. α 1-SYNTROPHIN AND ITS N-TERMINAL ARE CRUCIAL FOR REGULATING STORE-OPERATED CATION ENTRIES AND ASSOCIATE WITH TRPC1/TRPC4 CHANNELS IN MUSCLE. Sabourin J., Lamiche C., Vandebrouck A., Magaud C., Rivet J., Cognard C., Bourmeyster N. & Constantin B. (France).
- A26. SDMA, A UREMIC RETENTION SOLUTE, ENHANCES Ca^{2+} ENTRY IN MONOCYTES VIA STIMULATION OF STORE OPERATED Ca^{2+} CHANNELS. Schepers E., Glorieux G., Dhondt A., Leybaert L., Vanholder R. (Belgium).
- A27. 2-AMINOETHOXYDIPHENYL BORATE ALTERS SELECTIVITY OF ORAI3 CHANNELS BY INCREASING THEIR PORE SIZE. Schindl R., Bergsmann J., Frischauf I., Derler I., Fahrner M., Muik M., Fritsch R., Groschner K. & Romanin C. (Austria).
- A28. FUNCTIONAL CHARACTERIZATION OF THE CACNA1A A454T MUTATION: RELEVANCE TO MIGRAINE CLINICAL PHENOTYPE. Serra S.A., Cuenca E., Llobet A., Rubio F., Plata C., Carreño O., Fernández N., Corominas R., Valverde M.A., Macaya A., Cormand B. & Fernández J.M. (Spain).
- A29. STIM1 OLIGOMERIZATION IS A RAPID AND REVERSIBLE EVENT REGULATED BY PHYSIOLOGICAL CHANGES IN ER CALCIUM CONCENTRATION. Shen W., Jousset H., Amaudeau S. & Demaurex N. (Switzerland).
- A30. MITOCHONDRIAL Ca^{2+} UPTAKE DURING STORE-OPERATED Ca^{2+} INFLUX. Spät A., Korzeniowski M., Szanda G. & Balla T. (Hungary).
- A31. NICOTINE ACTIVATES THE CHEMOSENSORY CHANNEL TRPA1. Talavera K., Karashima Y., Meseguer V., Damann N., Everaerts W., Benoit M., Voets T. & Nilius B. (Belgium).

- A32. SPHINGOSINE 1-PHOSPHATE AS AN AUTOCRINE ENHANCER OF CALCIUM ENTRY. Gratschev D., Löf C., Heikkilä J., Hinkkanen A. & Törnquist K. (Finland).
- A33. ASTROCYTES DETERMINE THE CALCIUM PERMEABILITY OF AMPA RECEPTORS OF MOTOR NEURONS BY REGULATING GLUR2 EXPRESSION. Bogaert E., Van Damme P., Robberecht W. & Van Den Bosch L. (Belgium).
- A34. DIFFERENTIAL INTERACTIONS OF Na^+ CHANNEL TOXINS WITH T-TYPE Ca^{2+} CHANNELS. Varela D., Sun H., Chartier D., Ruben P.C., Nattel S., Zamponi G.W. & Leblanc N. (Canada).
- A35. CHARACTERIZATION OF AN 'OLD' BUT POORLY UNDERSTOOD TRP MEMBER - TRPM1? Vriens J., Oancea E., Brauchi S., Nilius B. & Clapham D.E. (Belgium – USA).
- A36. ATP-INDEPENDENT TRANSLOCATION OF STIM1 AND FORMATION OF STIM1-ORAI1 COMPLEXES. Walsh C.M., Lur G., Chvanov M., Haynes L.P., Voronina S.G., Gerasimenko O.V., Petersen O.H, Burgoyne R.D. & Tepikin A.V. (UK).
- A37. THE S218L FAMILIAL HEMIPLEGIC MIGRAINE MUTATION PROMOTES DEINHIBITION OF $\text{Ca}_v2.1$ CALCIUM CHANNELS DURING DIRECT G-PROTEIN REGULATION. Weiss N., Sandoval A., Felix R., Van Den Maagdenberg A. & De Waard M. (France).
- A38. FUNCTIONAL REGULATION OF CALCIUM HOMEOSTASIS IN ADULT MOUSE SKELETAL MUSCLE FIBRE BY SPECIFIC G-PROTEIN β - γ SUBUNITS. Weiss N., Legrand C., Zamponi G.W., Ronjat M., Allard B., De Waard M. & Jacquemond V. (France).

SESSION B. Ca^{2+} -BINDING PROTEINS.

- B1. LIPID MODIFICATIONS OF PLANT CALCINEURIN-B LIKE PROTEINS REGULATE THE LOCALIZATION AT DIFFERENT CELLULAR MEMBRANES. Batistic O. & Kudla J. (Germany).
- B2. USE OF NMR TO CHARACTERIZE THE INTERACTION OF S100 PROTEINS WITH SMALL LIGANDS AND PHYSIOLOGICAL PARTNERS. Borsi V. & Luchinat C. (Italy).
- B3. CALCIUM FINGERPRINTS INDUCED BY CALMODULIN INTERACTORS IN EUKARYOTIC CELLS. Dagher R., Briere C., Feve M., Zeniou M., Pigault C., Ranjeva R., Kilhoffer M.C. & Haiech J. (France).
- B4. NEW INSIGHTS INTO THE FUNCTIONAL MECHANISM OF ANNEXINS. Dastvan R. & Amininasab M. (Iran).
- B5. CBL/CIPK REGULATION OF A PLANT K^+ CHANNEL. Eckert C., Held K., Pascaud F., Thibaud J.-B. & Kudla J. (Germany)
- B6. INSIGHTS INTO S100-RAGE SIGNALING BY STRUCTURES OF S100B AND RAGE LIGAND-BINDING DOMAIN. Koch M., Diez J., Dattilo M., Chazin W.J. & Fritz G. (Germany).
- B7. CELL-TYPE SPECIFIC RAGE SIGNALING PROMOTES TUMOR DEVELOPMENT BY SUSTAINING INFLAMMATION. Gebhardt C., Riehl A., Németh J., Furstenberger G., Mueller-Decker K., Arnold B., Enk A., Nawroth P.P., Bierhaus A., Hess J. & Angel P. (Germany).
- B8. ANNEXIN A6-INDUCED INHIBITION OF CPLA2 IS LINKED TO CAVEOLIN-1 EXPORT FROM THE GOLGI. Grewal T., Cubells L., Svila De Muga S. & Enrich C. (Australia).
- B9. IN VITRO Ca^{2+} -BINDING ANALYSIS OF CALCINEURIN B-LIKE PROTEINS AND Ca^{2+} REGULATION OF CBL-CIPK INTERACTION. Grote J. & Kudla J. (Germany).
- B10. DIRECT AND Ca^{2+} -DEPENDENT INTERACTION OF S100P WITH IQGAP1. Heil A., Koltzsch M., Austermann J., Pöter M., Baudier J. & Gerke V. (Germany).
- B11. IDENTIFICATION OF CRITICAL RESIDUE IN ALIX FOR ALG-2 BINDING. Inuzuka T., Suzuki H., Kawasaki M., Kakiuchi T., Shibata H., Wakatsuki S. & Maki M. (Japan).
- B12. TYROSINE PHOSPHORYLATION OF ANNEXIN A2 REGULATES RHO-MEDIATED ACTIN REARRANGEMENT AND CELL ADHESION. Konietzko V., Ludwig C., Rescher U. & Gerke V. (Germany).

- B13. IN SILICO STUDY OF PUTATIVE CALCIUM-BINDING DOMAINS IN HUMAN BK AND BEST1 CHANNELS. Kranjc A., Menini A., Carloni P. & Anselmi C. (Italy).
- B14. SYNAPTIC PROTEINS IN Ca²⁺-DEPENDENT EXOCYTOSIS FROM CHROMAFFIN CELLS. Lukyanetz E.A., Sadoviy A.V., Pochinyuk O.M. & Zaika O.L. (Ukraine).
- B15. LOOKING FOR Ca²⁺-BUFFERING PROTEINS IN THE NITROGEN-FIXING BACTERIUM MESORHIZOBIUM LOTI. Moscatiello R., Roveri A., Marin O., Damiani E., Mariani P. & Navazio L. (Italy).
- B16. THE DUAL ROLES OF ANNEXIN A2 AS A mRNA-BINDING PROTEIN. Raddum A., Eriksen I., Hollås H., Strand E., Flatmark T. & Vedeler A. (Norway).
- B17. EXPRESSION OF ZEBRAFISH SPECIFIC NEURONAL CALCIUM SENSOR PROTEINS COINCIDES WITH THE ONSET OF VISUAL FUNCTION IN THE LARVAL RETINA. Raetscho N., Scholten A. & Koch K.W. (Germany).
- B18. IMPLICATION OF S100A8/A9 IN THE Ca²⁺-DEPENDENT NOX2 ACTIVATION IN NEUTROPHIL-LIKE HL-60 CELLS. Schenten V., Brécharde S., Melchior C., Plançon S. & Tschirhart E.J. (Luxemburg).
- B19. FUNCTION OF CACYBP/SIP-TUBULIN INTERACTION IN NEURONAL CELLS. Schneider G., Nieznanski K., Kilanczyk E., Bieganowski P., Mietelska A., Niewiadomska G., Kuznicki J. & Filipek A. (Poland).
- B20. Ca²⁺-SENSOR PROPERTIES OF CONE SPECIFIC GUANYLATE CYCLASE-ACTIVATING PROTEINS IN ZEBRAFISH. Scholten A., Behnen P., Kehl A., Raetscho N. & Koch K.W. (Germany).
- B21. RAPID DOWNREGULATION OF THE Ca²⁺ SIGNAL AFTER EXOCYTOSIS IN PARAMECIUM CELLS: ESSENTIAL ROLE OF A CENTRIN-RICH FILAMENTOUS CORTICAL NETWORK. Sehring I.M., Klotz, C., Beisson J. & Plattner H. (Germany).
- B22. ELUCIDATION OF THE Ca²⁺-DEPENDENT INTERACTION MECHANISM BETWEEN ALG-2 AND ALIX BY X-RAY CRYSTALLOGRAPHIC ANALYSIS. Suzuki H., Kawasaki M., Inuzuka T., Kakiuchi T., Shibata H., Wakatsuki S. & Maki M. (Japan).
- B23. MEMBERS OF THE S100 FAMILY BIND P53 IN TWO DISTINCT WAYS . Van Dieck J., Fernandez-Fernandez M.R. & Fersht A. (UK).
- B24. TOLL-LIKE RECEPTOR 4 AND S100A8/S100A9. Vogl T., Van Zoelen, M.A.D., Ehrhardt, C., Wolf M., Foell D. & Roth J. (Germany).
- B25. BIOCHEMICAL CHARACTERISATION OF THE IN VIVO RELEVANT S-NITROSYLATED S100A1 AND S100B PROTEINS. Bajor M., Zaręba M., Poznański J., Zhukova L. & Wysłouch-Cieszyńska A. (Poland).
- B26. ROLE OF THE ANNEXIN A2 N-TERMINAL DOMAIN DURING Ca²⁺- AND H⁺-INDUCED MEMBRANE BRIDGING. Zibouche M., Illien F., Vincent M., Gallay J. & Ayala-Sanmartin J. (France).

SESSION C. Ca²⁺ IN GROWTH, DEVELOPMENT AND DEATH.

- C1. CALCIUM/CALMODULIN KINASE II, A BINDING PARTNER OF THE MULTI PDZ DOMAIN PROTEIN MUPP1 IN MAMMALIAN SPERMATOZOA, REGULATES ACROSOMAL EXOCYTOSIS. Ackermann E., Zitranski N., Heydecke D., Gudermann T. & Boehhoff I. (Germany).
- C2. TRPC1 CHANNEL RECRUITMENT BY THE CAR IN MCF-7 HUMAN BREAST CANCER: ROLE IN PTHRP SECRETION, PROLIFERATION AND CHEMOTAXIS. El Hiani Y., Ahidouch A. & Oquadid-Ahidouch H. (France).
- C3. DEREGLATION OF CALCIUM FLUXES IN HTLV-I INFECTED CD4⁺ T-CELLS PLAYS A MAJOR ROLE IN MALIGNANT TRANSFORMATION. Aki H., Badran B., El Zein N., Dobirta G., Burny A. & Martiat P. (Belgium).

- C4. CHARACTERIZATION OF THE Ca^{2+} -REGULATED EZRIN-S100P INTERACTION AND ITS ROLE IN TUMOR CELL MIGRATION. Austermann J., Nazmi A.R. & Gerke V. (Germany).
- C5. CONTRIBUTION OF INTRACELLULAR Ca^{2+} STORES TO Ca^{2+} SIGNALING DURING CHEMOKINESIS OF HUMAN NEUTROPHIL GRANULOCYTES. Baron S.Z., Struyf S., Wuytack F., Van Damme J., Missiaen L., Raeymaekers L. & Vanoevelen J. (Belgium).
- C6. CELLULAR PRION PROTEIN INTERACTION WITH AN ACTIVE LAMININ γ -1 CHAIN PEPTIDE TRIGGERS CALCIUM SIGNALING PROMOTING NEURITOGENESIS. Beraldo F.H., Arantes C.P., Machado C.F., Lee K.S., Caetano F., Mancini G.L., Prado M. & Martins V.R. (Brazil).
- C7. ALTERED STRUCTURE OF THE CEREBELLAR GRANULE CELL LAYER OF MICE LACKING CALRETININ. Bischoff D.P., Roussel C., Schiffmann S.N. & Gall D. (Belgium).
- C8. INVOLVEMENT OF ENDOPLASMIC RETICULUM STRESS IN MEGAKARYOCYTE MATURATION, A ROLE FOR SERCA3 PROTEINS? Bobbe R., Polidano E., Chabaane C., Dally S., Corvazier E., Bredoux R. & Enouf J. (France).
- C9. OXIDANT-INDUCED INHIBITION OF THE PLASMA MEMBRANE Ca^{2+} ATPASE IN PANCREATIC ACINAR CELLS: ROLE OF THE MITOCHONDRIA. Baggaley E., Elliott A.C. & Bruce J.I.E. (UK).
- C10. A PROTEIN COMPLEX INVOLVING BAX INHIBITOR-1, A CELL DEATH SUPPRESSOR, REGULATES INTRACELLULAR Ca^{2+} DYNAMICS. Saxena A., Bultynck G., Parys J.B., De Smedt H., Methner A. (Belgium-Germany).
- C11. ROLE OF S100A4 IN SMOOTH MUSCLE CELL PROLIFERATION: IMPLICATIONS FOR ATHEROSCLEROSIS AND RESTENOSIS. Chaabane C., Brisset A.C., Ahmed-Mohamed A., Heizmann C.W. & Bochaton Piallat M.L. (Switzerland).
- C12. PLECKSTRIN HOMOLOGY (PH) DOMAIN OF PLC δ 1 COLOCALIZES WITH F-ACTIN AND INTERFERES WITH THE INTRACELLULAR Ca^{2+} SIGNALING IN STARFISH EGGS. Chun J.T., Puppo A. & Santella L. (Italy).
- C13. THE MULTI-SERCA SYSTEM OF NON-FAILING AND FAILING HUMAN HEART IN 2008. Dally S., Corvazier E., Bredoux R., Bobbe R., Del Monte F. & Enouf J. (France).
- C14. OXIDATIVE DAMAGE TO THE ENDOPLASMIC RETICULUM BY HYPERICIN-MEDIATED PHOTODYNAMIC THERAPY AS INDUCER OF APOPTOSIS AND AUTOPHAGY PATHWAYS. Dewaele M., Verfaillie T., Buytaert E., Martinet W. & Agostinis P. (Belgium).
- C15. OVEREXPRESSION OF TRP CALCIUM CHANNELS AND CORRELATION WITH CLINICAL FEATURES IN HUMAN BREAST DUCTAL ADENOCARCINOMAS. Dhennin-Duthille I., Haren N., Brevet M., Gautier M., Guilbert A., Chodon D., Merviel P., Vaudry D., Sevestre H. & Oquadid-Ahidouch H. (France).
- C16. THE EXTRACELLULAR CALCIUM-SENSING RECEPTOR IN AVIAN GRANULOSA CELLS: A KEY TO SURVIVAL DURING FOLLICULOGENESIS. Diez-Fraile A., Mussche S., Verhaeghe T. & D'herde K. (Belgium).
- C17. S100B IN MYOBLASTS COUNTERACTS APOPTOSIS AND STIMULATES THE TRANSITION FROM QUIESCENCE TO PROLIFERATION. Tubaro C., Arcuri C., Giambanco I. & Donato R. (Italy).
- C18. ROLE OF S100B IN NEUROSPHERE FORMATION IN THE MIO-M1 MULLER CELL LINE. Brozzi F., Arcuri C., Giambanco I. & Donato R. (Italy).
- C19. DIFFERENTIAL INVOLVEMENT OF RAGE AND FGFR1 IN S100B EFFECTS ON MYOBLAST DIFFERENTIATION. Riuzzi F., Sorci G. & Donato R. (Italy).
- C20. CELL PROLIFERATION AND TRPC6 EXPRESSION IN LIVER CANCER CELL LINE. El Boustany C., Bidaux G., Enfissi A., Delcourt P., Prevarskaya N. & Capiod T. (France).
- C21. TRPV CHANNELS EXPRESSION AND FUNCTIONAL ROLE IN TUMOR ANGIOGENESIS. Fiorio Pla A., Grange C., Antoniotti S., Tomatis C., Bussolati B. & Munaron L. (Italy).

- C22. ORAI1 DOWNREGULATION: A MISSING LINK IN UNDERSTANDING THE PROSTATE CANCER APOPTOSIS RESISTANCE. Flourakis M., Beck B., Lehen'kyi V., Gkika D., Roudbaraki M., Skryma R. & Prevarskaya N. (France).
- C23. INVOLVEMENT OF TRPM7 IN BREAST CANCER CELL PROLIFERATION. Guilbert A., Gautier M.1, Dhennin-Duthille I., Haren N., Sevestre H. & Ouadid-Ahidouch H. (France).
- C24. SERCA2b IS A KEY ACTOR OF IGF-1 DEPENDENT MCF-7 PROLIFERATION. Borowiec A.S., Hague E., Yahiaoui S., Matifat F., Chopin V., Brûlé G. & Ouadid-Ahidouch H. (France).
- C25. SV40- AND ASBESTOS-INDUCED UPREGULATION OF CALRETININ PROTECTS MESOTHELIAL CELLS FROM CYTOTOXICITY AND MAY LEAD TO MESOTHELIOMA CARCINOGENESIS. Henzi T., Pfefferli M., Kawecki T.J., Salicio V., Blum W.V. & Schwaller B. (Switzerland).
- C26. ASSISTED OOCYTE ACTIVATION WITH IONOPHORE-TRIGGERED Ca^{2+} CHANGES DOES NOT GENERATE Ca^{2+} OSCILLATIONS BUT IS SUFFICIENT TO ACTIVATE THE OOCYTE. Heytens E., Dupont G., De Sutter P. & Leybaert L. (Belgium).
- C27. RESVERATROL MODULATES INTRACELLULAR CALCIUM BY OPENING THE INOSITOL 1,4,5 TRISPHOSPHATE RECEPTOR IN ENDOTHELIAL CELLS. Kenealey J.D. & Polans A.S. (USA).
- C28. MODEL OF MOUSE EMBRYONIC CARDIOMYOCYTE EXCITATION-CONTRACTION COUPLING. Korhonen T., Rapila R. & Tavi P. (FINLAND).
- C29. ACTIVATION OF DHP-CALCIUM CHANNELS THROUGH FGF SIGNALING DURING NEURAL INDUCTION IN XENOPUS LAEVIS. Leclerc C., Lee K., Neant I., Bibonne A. & Moreau M. (France).
- C30. BASAL Ca^{2+} INFLUX CONTROLS NFAT TRANSCRIPTIONAL ACTIVITY AND PROLIFERATION OF HUMAN VASCULAR SMOOTH MUSCLE CELLS. Coulombe A., Lompré A.M., Atassi F., Hadri L., Hatem S., Hajjar R. & Lipskaia L. (USA).
- C31. STUDY OF S100 PROTEINS IN HUMAN NORMAL AND MALIGNANT CELLS AND TISSUES. Makarov A.A., Kovalyov L.I., Kovalyova M.A., Toropygin I.Y. & Shishkin S.S. (Russia).
- C32. IP_3 -INDUCED Ca^{2+} SIGNALLING IS INVOLVED IN BREAST CANCER CELLS PROLIFERATION - REGULATION BY ESTRADIOL. Cartier F., Picard M., Ouadid-Ahidouch H. & Matifat F. (France).
- C33. AMILORIDE DERIVATIVES INDUCE APOPTOSIS BY DEPLETING ER CALCIUM STORES IN VASCULAR ENDOTHELIAL CELLS. Park K.S., Poburko D., Wollheim C.B. & Demaurex N. (Switzerland).
- C34. ALTERATION OF THE CORTICAL ACTIN CYTOSKELETON IN STARFISH EGGS LEADS TO ECTOPIC Ca^{2+} SIGNALING AND PREVENTS MONOSPERMIC FERTILIZATION AND SPERM ENTRY. Puppo A., Chun J.T., Santella L. (Italy).
- C35. EFFECT OF ANNEXIN 2 MUTANTS ON THE MULTICELLULAR ORGANISATION OF EPITHELIAL CELLS. Quiskamp N., Gerke V. & Rescher U. (Germany).
- C36. REGULATION OF ADP-RIBOSYL CYCLASES DURING EARLY EMBRYOGENESIS OF THE SEA URCHIN. Ramakrishnan L., Vacquier V.D., & Patel S. (UK).
- C37. THE SECRETORY PATHWAY Ca^{2+} -ATPASE ISOFORM 1 (SPCA1) PARTICIPATES IN DIFFERENTIATION AND MANGANESE METABOLISM OF NEURAL CELLS. Sepúlveda M.R., Vanoevelen J., Raeymaekers L., Mata A.M. & Wuytack F. (Belgium).
- C38. ORIGIN OF FERTILIZATION CALCIUM SIGNAL AND CONTROL MECHANISMS OF APOPTOSIS OF THE SEA URCHIN EGG AND EMBRYO: ROLE OF THE PLC γ AND MEK/ERK PATHWAYS. Tosca L., Huitorel P., Dumollard R. & Ciapa B. (France).
- C39. ZEBRAFISH HOMOLOGUE OF SPCA: ROLE IN Ca^{2+} /Mn $^{2+}$ HOMEOSTASIS. Vanoevelen J., Missiaen L., Raeymaekers L., David G. & Wuytack F. (Belgium).
- C40. TRPC1 REGULATES SKELETAL MYOBLASTS MIGRATION AND DIFFERENTIATION. Zanou N., Louis M., Van Schoor M. & Gailly P. (Belgium).

SESSION D. INTRACELLULAR Ca²⁺ STORES AND Ca²⁺ SIGNALLING.

- D1. INVESTIGATING THE MECHANISM OF AMYLOID β -PEPTIDE-INDUCED Ca²⁺ RELEASE. Allan L.E., Bultynck G., Amijee H., Bootman M.D., Roderick H.L. (UK).
- D2. EFFECT OF DIFFERENT SPHINGOLIPIDS AND AGELASINE B ON INTRACELLULAR CALCIUM MOBILIZATION IN BREAST CANCER CELLS (MCF-7). Benaim G., Pimentel A., Nieves J., Arvelo F., Sojo F., Rojas H., Compagnone R. & Suarez A. (Venezuela).
- D3. ALTERATION OF Ca²⁺ DEPENDENCE OF SYNAPTOSOMAL PLASMA MEMBRANE Ca²⁺ ATPase IN HUMAN BRAIN AFFECTED BY ALZHEIMER'S DISEASE. Berrocal M., Marcos D. & Mata A.M. (Spain).
- D4. EFFECTS OF HTLV-1 P13 PROTEIN ON Ca²⁺ HOMEOSTASIS. Biasiotto R., Aguiari P., D'Agostino D.M., Silic-Benussi M., Cannizzaro E., Rizzuto R., Pinton P. & Ciminale V. (Italy).
- D5. GLUCOSE AND PHARMACOLOGICAL MODULATORS OF ATP-SENSITIVE K⁺ CHANNELS CONTROL [Ca²⁺]_c BY DIFFERENT MECHANISMS IN ISOLATED MOUSE PANCREATIC α -CELLS. Cheng-Xue R., Quoix N., Mattart L., Zeinoun Z., Guiot Y., Beauvois M.C., Henquin J.C. & Gilon P. (Belgium).
- D6. MOLECULAR CHARACTERISATION OF A NOVEL SEA URCHIN ADP-RIBOSYL CYCLASE. Churamani D., Ramakrishnan L., Boulware M.J., Geach T.J., Martin A.C.R., Vacquier V.D., Marchant J.S., Dale L. & Patel S. (UK).
- D7. EXPRESSION OF SARCO/ENDOPLASMIC RETICULUM Ca²⁺ ATPase (SERCA) 3 PROTEINS IN TWO MAJOR CONFORMATIONAL STATES IN NATIVE HUMAN MEMBRANES. Corvazier E., Bredoux R., Kovacs T. & Enouf J. (France).
- D8. EXPRESSION OF CD38 IN PANCREATIC AR42J CELLS IS ESSENTIAL FOR NAADP SIGNALING. Cosker F. & Cancela J.M. (France).
- D9. SLP-2 IS A NEW MODULATOR OF MITOCHONDRIAL CALCIUM HOMEOSTASIS. Da Cruz S., De Marchi U., Parone P.A., Martinou J.-C., Frieden M. & Demaurex N. (Switzerland).
- D10. ACTIVATION OF ATP RELEASE BY CX43 HEMICHANNELS INVOLVES CALMODULIN-ARACHIDONIC ACID AND ROS/NO. De Vuyst E., De Bock M., Wang N., Decrock E. & Leybaert L. (Belgium).
- D11. WHAT CAN WE LEARN FROM THE IRREGULARITY OF Ca²⁺ OSCILLATIONS? Dupont G., Abou-Lovergne A. & Combettes L. (Belgium – France).
- D12. CALCIUM "TRANSPORTOME" OF THE PLANKTONIC CRUSTACEAN DAPHNIA. Elliott A.C., Hanna J. & Pennington N. (UK).
- D13. SMOOTH MUSCLE CELL FUNCTION IN MOUSE AORTA SEGMENTS LACKING THE SERCA2a ISOFORM. Fransen P., Vangheluwe P., Van Assche T., Van Hove C., Raeymakers L., Wuytack F. & Bult H. (Belgium).
- D14. THE RELAXING CAPACITY OF NITRIC OXIDE IN MOUSE AORTA SMOOTH MUSCLE CELLS: ROLE OF INTRACELLULAR CALCIUM. Van Hove C.E., Herman A.G., Bult H. & Fransen P. (Belgium).
- D15. NAADP-MEDIATED CALCIUM MOBILIZATION IN CD4 EFFECTOR T CELLS AS NOVEL TARGET FOR IMMUNOMODULATION. Guse, A.H., Flügel A., Hohengegger M. & Potter B.V.L. (Germany).
- D16. Ca²⁺-HANDLING PHENOTYPE OF CARDIOMYOCYTES WITH IMPAIRED MITOCHONDRIAL FUNCTION IS REVERSED BY N-ACETYLCYSTEINE (NAC). Hänninen S.L., Ronkainen J.J., Korhonen T. & Tavi P. (Finland).
- D17. GLUCOCORTICOIDS NEGATIVELY REGULATE IP₃R-ASSOCIATED KINASES FYN AND LCK TO MODULATE TCR-INDUCED CALCIUM SIGNALS. Harr M.W. & Distelhorst C.W. (USA).
- D18. NAADP SIGNALLING IN SKELETAL MUSCLES. Hohenegger M., Wanke-Jelinek L., Pusch O., Weigl L. (Austria).

- D19. IP₃-DEPENDENT POST-TETANIC CALCIUM TRANSIENTS INDUCED BY ELECTROSTIMULATION IN ADULT SKELETAL MUSCLE FIBERS. Casas M., Buvinic S., Figueroa R., García I., Molgo J. & Jaimovich E. (Chili).
- D20. 8-BROMO-CYCLIC INOSINE DIPHOSPHORIBOSE: A CALCIUM-MOBILIZING ANALOGUE OF THE SECOND MESSENGER CYCLIC ADP-RIBOSE IN T-LYMPHOCTES. Kirchberger T., Moreau C., Wagner G.K., Fliegert R., Potter B.V.L. & Guse A.H. (Germany).
- D21. Ca²⁺-RELEASE CHANNELS IN PARAMECIUM TETRAURELIA. Ladenburger E.M., Sehring I.M., Korn I. & Plattner H. (Germany).
- D22. EXPRESSION OF THE SECRETORY PATHWAY Ca²⁺ ATPase 1 (SPCA1) IN VASCULAR SMOOTH MUSCLE CELLS (A7R5) CULTURED UNDER NORMAL & DIABETIC GLUCOSE CONDITIONS. Lai P.F. & Michelangeli F. (UK).
- D23. HIPPOCAMPAL SPCA Ca²⁺ ATPase: EFFECT OF ISCHEMIC PRECONDITIONING ON GENE EXPRESSION AND OXIDATIVE DAMAGE IN RATS. Lehotsky J., Pavlíková M., Kaplan P., Sivonova M. & Tatarková Z. (Slovakia).
- D24. CONNEXIN HEMICHANNEL INVOLVEMENT IN Ca²⁺ OSCILLATIONS/WAVES IN BLOOD-BRAIN BARRIER ENDOTHELIAL CELLS. De Bock M., De Vuyst E., Wang N., Decrock E., Culot M., Cecchelli R. & Leybaert L. (Belgium).
- D25. DOES Ca²⁺ SIGNALLING PLAY A ROLE IN SHIGELLA INVASION? Zhang J., Liu B., Pierre F., Erneux C., Combettes L. & Tran Van Nhieu (France).
- D26. OVEREXPRESSION OF TRPC3 REDUCES THE CONTENT OF INTRACELLULAR CALCIUM STORES IN HEK-293 CELLS. Löf C., Blom T. & Törnquist K. (Finland).
- D27. FUNCTIONAL MODULATION OF CALCIUM PUMPS BY AMYLOID β-PEPTIDE IN PRIMARY CULTURES OF HIPPOCAMPAL NEURONS. Marcos D., Berrocal M. & Mata A.M. (Spain).
- D28. INVERSE DISTURBANCE OF CALCIUM HOMEOSTASIS IN SPHINGOSINE KINASE-1- AND SPHINGOSINE-1-PHOSPHATE LYASE-DEFICIENT CELLS. Meyer Zu Heringdorf D., Hegen B., Ter Braak M., Hardel V., Hla T., Jakobs K.H. & Van Veldhoven P.P. (Germany).
- D29. REAL TIME cAMP AND Ca²⁺ DYNAMICS IN THE OLFACTORY SYSTEM. Maritan M., Monaco G., Zacco M. & Lodovichi C. (Italy).
- D30. UNEXPECTED PHOSPHORYL TRANSFER FROM PHOSPHORYLATED ASP351 TO FLUORESCHEIN ATTACHED TO LYS515 IN SARCOPLASMIC RETICULUM Ca²⁺ ATPASE. Montigny C., Champeil P. & McIntosh D.B. (France).
- D31. ADAPTATION TO MICROGRAVITY BY THE DECREASE OF RYANODINE RECEPTOR SUBTYPE 1 EXPRESSION IN VASCULAR MYOCYTES. Dabertrand F., Macrez N. & Morel J.L. (France).
- D32. THE NON-KINASE ACTIVITY OF MYOSIN LIGHT CHAIN KINASE IN REGULATING SMOOTH MUSCLE CONTRACTION. Nakamura A., Xie C., Matsumoto A., Zhang Y., Gao Y., Kohama K. (Japan).
- D33. Ca²⁺ SIGNALLING IN NITROGEN-FIXING BACTERIA NODULATING LEGUMES. Navazio L., Moscattello R., Alberghini S., Squartini A. & Mariani P. (Italy).
- D34. GLOBAL AND LOCAL CALCIUM SIGNALING UPON APC - T CELL INTERACTION. Nebel M., Schmid F., Zhang B., Cordiglieri C., Odoardi F., Potter B.V.L., Flügel A. & Guse A.H. (Germany).
- D35. CANDIDATE CALCIUM CHANNELS FOR NAADP. Brailoiu E., Churamani D., Dun N.J. & Patel S. (UK).
- D36. RECRUITMENT OF NAADP-SENSITIVE CALCIUM STORES BY GLUTAMATE. Pandey V., Chuang C.C., Lewis A.M., Aley P.K., Brailoiu E., Dun N.J., Churchill G.C. & Patel S. (UK)
- D37. A NOVEL RYANODINE RECEPTOR ISOFORM EXPRESSED IN LIVER. Pierobon N., Gaspers L. & Thomas A.P. (USA).
- D38. THROMBIN-INDUCED INHIBITION OF INTERCELLULAR COMMUNICATION IN CORNEAL ENDOTHELIAL CELLS IS MEDIATED THROUGH THE C-TERMINUS OF CX43. Ponsaerts R., D'hondt C., Srinivas S.P., Vereecke J., Himpens B. & Bultynck G. (Belgium).

- D39. MITOCHONDRIAL CALCIUM TRANSPORT AND MITOCHONDRIAL DYSFUNCTION AFTER GLOBAL BRAIN ISCHEMIA. Racay P., Tatarková Z., Chomová M., Hatok J., Kaplan P. & Dobrota D. (Slovakia).
- D40. LOCALISATION OF THE PUTATIVE NAADP-RECEPTOR. Rietdorf K., Ruas M., Watanabe K., Zhu M.X., Parrington J. & Galione A. (UK).
- D41. INTERACTION OF THE DIHYDROPYRIDINE RECEPTOR β SUBUNIT WITH RYR1 REGULATES EXCITATION-CONTRACTION COUPLING. Barbado M., Appaix F., Bichraoui H., De Waard M. & Ronjat M. (France).
- D42. MOLECULAR AND FUNCTIONAL ANALYSIS OF THE INTERACTION BETWEEN POLYCYSTIN-2 AND THE INOSITOL 1,4,5-TRISPHOSPHATE RECEPTOR. Sammels E., Devogelaere B., Missiaen L., Parys J.B. & De Smedt H. (Belgium).
- D43. NAADP: A SECOND MESSENGER INVOLVED IN MODULATION OF MOUSE CARDIAC MYOCYTE CALCIUM TRANSIENTS. Siebrands C.C., Schlegel S., Zhang B., Grendel J., Bruhn S., Pohlmann L., Carrier L., Eschenhagen T., Potter B.V.L. & Guse A.H. (Germany).
- D44. ASSEMBLY AND DYNAMICS OF SARCOPLASMIC RETICULUM DOMAINS IN SKELETAL MUSCLE CELLS. Cusimano V., Benini F., Giacomello E., Rossi D. & Sorrentino V. (Italy).
- D45. Mg^{2+} SIGNALING AND MITOCHONDRIAL Ca^{2+} UPTAKE. Szanda G., Rajki A., Gallego-Sandín S., Garcia-Sancho J. & Spät A. (Hungary).
- D46. SERCA2b, A Ca^{2+} PUMP LINGERING IN THE E1 HIGH Ca^{2+} AFFINITY CONFORMATION. Vandecaetsbeek I., Raeymaekers L., Wuytack F. & Vangheluwe P. (Belgium).
- D47. INHIBITION OF CX43 HEMICHANNEL RESPONSES WITH HIGH $[Ca^{2+}]_i$ IS MEDIATED BY MECHANISMS DIFFERENT FROM CALCIUM ACTIVATION OF HEMICHANNEL RESPONSES. Wang N., De Vuyst E., De Bock M., Decrock E. & Leybaert L. (Belgium).
- D48. A PLASTID PROTEIN CRUCIAL FOR Ca^{2+} -REGULATED STOMATAL RESPONSES. Weinl S., Held K., Schlücking K., Steinhorst L., Kuhlert S., Hippler M. & Kudla J. (Germany).
- D49. IN VIVO IMAGING OF NUCLEAR Ca^{2+} SIGNALS IN THE FRESHWATER POLYP HYDRA VULGARIS USING CODON-OPTIMISED RECOMBINANT Ca^{2+} INDICATORS. Weislogel J.M., Schlüter J., Nakamura Y., Holstein T. & Bading H. (Germany).
- D50. STRUCTURAL AND FUNCTIONAL REMODELING OF THE COUPLING BETWEEN SARCOLEMMA Ca^{2+} CHANNELS AND THE RYANODINE RECEPTOR IN A MODEL OF ATRIAL FIBRILLATION. Lenaerts I., Bito V., Holemans P., Heidbüchel H., Sipido K.R. & Willems R. (Belgium).
- D51. IP_3 RECEPTORS AND SERCA PUMPS ARE BOTH TARGETS OF THE FAMILIAL ALZHEIMER'S DISEASE MUTANT PRESENILIN-2-T122R. Zampese E., Brunello L., Florean C., Pozzan T., Fasolato C. & Pizzo P. (Italy).
