

Cell Signaling Networks 2011 –Program at a Glance-

PLENARY LECTURES at Fiesta Americana

Saturday, 16:30-18:30

OPENING CEREMONY

followed by short talk on Maya Culture, MAYAN PEOPLES: Three millennia of cultural creation by **Barbara Blaha Degler Pfeiler** CEPHICS, UNAM followed by Opening Lecture



Joan Massagué
Feodor Lynen Lecture and Medal
The TGF-β signaling pathway in stem cells and cancer

followed by Welcome Cocktail (starts at 19:00)

PLENARY SYMPOSIA at Fiesta Americana

Sunday, 9:00-12:10

Protein phosphorylation and other postranslational modifications



Tony Hunter **George Thomas** **Federico Mayor Jr.** **Gerald Hart**

TH: Signal transduction by phosphorylation.
GT: S6K1 Regulates Pancreatic β-Cell Size and Insulin Homeostasis in a Cell-Autonomous Manner, Independent of Intrauterine Growth Restriction.
FM: The complex role of G protein-coupled receptor kinase 2 (GRK2) in cell signaling: beyond GPCR desensitization.
GH: Extensive Crosstalk Between O-GlcNAcylation & Phosphorylation.

10 min break



Gökhan Hotamisligil

SMB José Laguna Lecture and Medal

Metabolism and Immunity: Partners in Crime in the 21st Century's Chronic Disease Plague

Monday, 9:00-12:10

Signaling Pathways Update



Roger Davis **Angela Nieto** **Silvio Gutkind** **Xi He**

RD: Signal Transduction by the JNK Pathway.
AN: Snail factor at the crossroads of signaling pathways during epithelial to mesenchymal transition in health and disease.
SG: G Protein-Regulated Signaling Circuitries in Cancer: A Synthetic Biology Approach.
XH: Understanding Wnt Signaling and the Wnt Morphogen in development and disease.

10 min break



Manel Esteller

SEBBM Lecture

Human Cancer Epigenetics

Tuesday, 9:00-12:10

Visualizing Signaling in Live Cells



Michiyuki Matsuda **Tamas Balla** **Luis Vaca** **Philippe Bastiaens**

MM: Three-dimensional imaging of signaling molecules with FRET biosensors.
TB: Chasing phosphoinositides in living cells with engineered molecular tools.
LV: Visualizing the store-operated calcium influx complex in living cells.
PB: Spatial organization of intracellular communication: insights from imaging.

10 min break



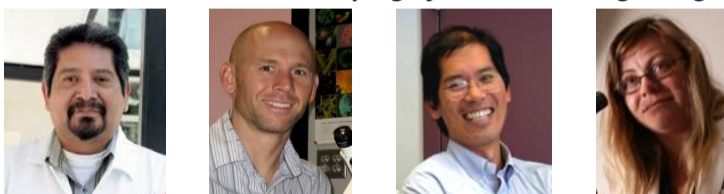
Richard Flavell

IUBMB Lecture and Medal

Inflammasomes and homeostasis in the intestine and beyond

Wednesday, 9:00-12:10

Bacterial usurping of mammalian signaling



Fernando Navarro **Neal Alto** **John Leong** **Vanessa Sperandio**

FN: Blockage of cell signaling induced by Enteropathogenic *E. coli* by inhibiting the bacterial injectosome using coiled-coil peptides.
NA: Hijacking kinase and GTPase signaling networks by bacterial effector proteins.
JL: Enteropathogenic *E. coli* targets distinct domains of N-WASP to stimulate multiple pathways of actin assembly.
VE: Inter-kingdom chemical signaling in host-bacterial associations.

10 min break



Rafael Radi

Protein Tyrosine Nitration: Biochemical Mechanisms and Biological Consequences

Thursday, 9:00-12:10

Structural basis of signaling



Heidi Hamm **Susan Taylor** **Hao Wu** **Ann Marie Pendergast**

HH: Mechanisms of receptor-mediated G protein activation.
ST: PKA: Assembly of Dynamic Macromolecular Signaling Scaffolds.
HW: Crystal Structures of Key Components in Toll-like receptor Signaling.
AMP: ABL kinases regulate signals critical for bacterial pathogenesis and cancer: links to cell polarity and invasion.

10 min break



Scott Lowe

Kunio Yagi Lecture and Medal

Identifying tumor suppressor & tumor maintenance genes using mouse models and RNA interference followed by Closing Ceremony

Simultaneous Symposia Sunday Afternoon at Fiesta Americana

Sunday early afternoon (14:00 – 16:00)

SS 1.1 RNA silencing



Akiko Hata



Mario Arteaga-Vázquez



Marcos Malumbres



Judy Lieberman

AH: Regulation of Vascular Smooth Muscle Cell Phenotype by microRNAs.
MAV: Paramutation: Transgenerational Transfer of Epigenetic Information.
MM: Control of the cell cycle and tumor development by miRNAs.
JL: Capture of microRNA-bound mRNAs identifies the tumor suppressor miR-34a as a regulator of growth factor signaling.

SS 2.1 Signaling by Proteases. Sponsored by ASBMB



Judith Bond



Sharon Stack



Sin Urban



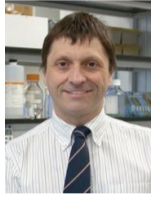
Guy Salvesen

JB: Meprip metalloproteinases modulate the immune response by cleaving signaling cytokines.
SS: Cell/Matrix Adhesion and Wnt/beta-catenin Signaling in Ovarian Cancer.
SU: Rhomboid protease signaling: why inside the membrane?
GS: Caspase-8 and the Space Between Death and Survival.

SS 3.1 Cellular immunity



Yvonne Rosenstein



André Veillette



Claudia González



Juan Rivera

YR: New functions for the sialo-mucin CD43.
AV: Immune cell regulation by the SLAM and SAP families.
CG: Participation of Src-family kinases on Toll-like receptor (TLR)-4 signaling in mast cells.
JR: Novel Insights on mast cell and Basophil signaling and function in health and disease.

16:00 - 16:30

Coffee break

SS 4.1 Development and signaling



Diana Escalante



Naoki Mochizuki



Juan Riesgo



Randy Johnson

DE: Lipid phosphate phosphatase-3 in neural development.
NM: Function of Sphingosine 1-phosphate Transporter, Spns2, in Zebrafish and Mice.
JR: Jun kinase, dorsal closure, Drosophila melanogaster, cytoskeleton.
RJ: The mammalian Hippo signaling pathway in organ size determination and cancer.

SS 5.1 Plant signaling response to stress



Teun Munnik



Teresa Hernández



Wendy Boss



Marina Gavilanes

TM: Visualizing Phospholipid Signalling Pathways during Plant Stress and Development.
TH: Aluminium toxicity and signal transduction in cell suspensions of *Coffea arabica*
WB: Phosphoinositide signaling in plants. Does flux matter?
MG: Another way of dying: programmed cell death mediated by sphingoid bases in plants.

Sunday late afternoon (16:30 – 18:30)

Short Oral Presentations from abstracts, Session 1, Sunday, October 23, 16:30-18:30 PM at Fiesta Americana.

16:30-16:45	S011	HUMAN CRF2(A) RECEPTOR DESENSITIZATION AND β -ARRESTIN2 RECRUITMENT GOVERNED BY AGONIST POTENCY. Alberto Olivares-Reyes. CINVESTAV. Mexico City, Mexico
16:45-17:00	S030	SIGNALING SYSTEMS UTILIZING ERK MAP KINASE ACTIVATE CANONICAL WNT/BETA-CATENIN SIGNALING VIA LRP6 PHOSPHORYLATION. Pavel Krejci. Cedars Sinai Medical Center. Los Angeles CA, USA
17:00-17:15	S033	C-Kit signaling depends on Mitf for effects on cell proliferation. Lars Rönnstrand. Lund University. Limhamn, Sweden
17:15-17:30	S038	Distinct involvement of the Gab1 and Grb2 adaptor proteins in signal transduction by the related receptor tyrosine kinases RON and MET. Amitabha Chaudhuri. Genentech Inc. South San Francisco, CA, USA
17:30-17:45	S044	SKI ONCOPROTEIN STABILITY IS CONTROLLED IN HEPATOCYTES DURING LIVER REGENERATION. Genaro Vázquez-Victorio. IFC, UNAM, Mexico City, Mexico
17:45-18:00	S037	Benefits in Therapy Based on Substrate Competitive Inhibitors of GSK-3. Hagit Eldar-Finkelman. Tel Aviv University. Tel Aviv, Israel
18:00-18:15	S040	Tyrosine Phosphorylation Turns Alkaline Transition Into a Biologically Relevant Process and Makes Human Cytochrome c Behave as an Anti-apoptotic Switch. Irene Díaz-Moreno. CIC CARTUJA - UNIVERSIDAD DE SEVILLA, Seville, SPAIN
18:15-18:30	S042	A NON-CANONICAL MECHANISM OF REGULATION OF MAMMALIAN STERILE 20/SPS1-LIKE KINASE 3 (MST3). Peter Sugden. University of Reading, UK.

Poster Viewing at Holyday Inn

(FULL LIST OF ABSTRACTS TO BE PRESENTED AS POSTERS STARTS ON PAGE 6 OF THIS PROGRAM)

Poster Sessions

Session 1, (S), lunch time and evening, Sunday, October 23.

Session 2, (T), lunch time and evening, Tuesday, October 25.

Session 3, (W), lunch time and evening, Wednesday, October 26.

12:10 to 14:00 PM (box lunch for registered participants), at Holyday Inn.

18:30 to 20:30 PM (drinks for registered participants), at Holyday Inn.

18:30-20:30

Topic	Sunday	Tuesday	Wednesday
1. Oxidative and other forms of Stress. Redox Regulation of Signaling.	S001-S010	T001-T010	W001-W012
2. Signaling by GPCRs and G proteins (Big and Small).	S011-S024	T011-T020	W013-W023
3. Ser-Thr Kinase Receptors.		T021-T023	
4. Trafficking of Signaling Proteins.	S025-S029		
5. Kinases and Phosphorylation.	S030-S043	T024-T033	W024-W032
6. Proteases and Protein Degradation.	S044-S047	T034-T040	
7. Gene Expression.	S048-S058	T041-T052	W033-W042
8. Therapeutic modulation of Signaling.	S059-S074	T053-T061	
9. Cell Death.		T062-T069	
10. Stem Cells, Development and Differentiation.	S075-S085	T070-T080	
11. Cancer.	S086-S092	T081-T089	W043-W051
12. Immune Signaling.		T090-T097	W052-W059
13. Signaling in the Nervous System.		T098-T108	W060-W069
14. Pathogens and Host Response.	S093-S101		W070-W091
15. Signaling in Plants.	S102-S109		W092-W099
16. Novel Experimental Strategies to Study Signaling.	S110-S114	T109-T113	
17. Ions, their Role in Signaling.		T114-T120	W100-W106
18. Metabolism.		T121-T129	W107-W121
19. Nutrition and Signaling			W122-W128
20. Emerging Topics on Signal Transduction.	S115-S133		

Simultaneous Symposia Monday Afternoon at Fiesta Americana

SS 1.2 LPA and S1P receptors and signaling



Sarah Spiegel Jerold Chun Gabor Tigyi Adolfo García-Sáinz

SS: Sphingosine-1-Phosphate: A Multi-Functional Lipid Mediator.
JC: LPA signaling in forebrain development and disease: relevance to fetal hydrocephalus.
GT: Regulation of the Nuclear Hormone Receptor PPAR γ by Lysophosphatidic Acids.
JAGS: EGF and sphingosine-1-phosphate: Paracrine/ autocrine modulators of GPCR function.

SS 2.2 Contextual signalling in development. Sponsored by the CSBMCB



Liliana Atissano Helen McNeill Jeff Wranna Michael Ohh

LA: Multidimensional highthroughput screening to identify novel regulators of the Wnt pathway.
HM: Fat cadherins in growth and Planar Cell Polarity.
JW: TGFbeta Meets the Hippo.
MO: Fat cadherins in growth and Planar Cell Polarity.

SS 3.2 Oxidative stress and disease



Luis Covarrubias Holly Van Remmen Ronald P. Mason Julio Moran

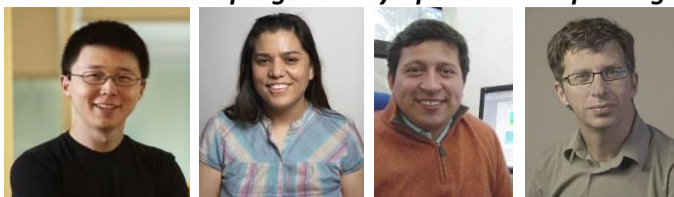
LC: Searching for the role of reactive oxygen species in the control of cell death.
HVR: Mitochondrial dysfunction, oxidative stress and age-related skeletal muscle atrophy.
RPM: The Significance of Protein Free Radical Formation in Autoimmune and Allergic Diseases.
JM: The role of reactive oxygen species in neuronal development

Monday after 16:00 Free afternoon (optional visit to Uxmal)

Monday early afternoon (14:00 – 16:00 PM)

Simultaneous Symposia Tuesday Afternoon at Fiesta Americana

SS 1.3 Optogenetic symposium: Deciphering intracellular signals underlying Brain Reward Circuitry



Feng Zhang Mary Kay Lobo Ranier Gutiérrez Luis de Lecea

FZ: Neuroengineering: molecular and optical axis of control.
MKL: Optogenetic Control of Striatal Projection Neuron Subtypes in Reward Behaviors.
RG: Neural integration of sleep, feeding and reward by nucleus accumbens neurons.
LL: Optogenetic control of arousal.

SS 2.3 Nutrition and signaling



Angelo Azzi Simin Meydani Mohsen Meydani Sang Woon Choi

AA: Vitamin E is activated by phosphorylation to α -tocopheryl phosphate. **SM:** Aging, vitamin E, signalosomes and gene expression in T cells.
MM: Polyphenols modulation of angiogenesis and obesity.
SWCH: Nutrition and Epigenetics.

SS 3.3 Systems biology of signal transduction



Francesc Posas, Edda Klipp Stephen Michnick Gabriel del Río

FP: Adaptive responses controlled by the Hog1 stress-activated protein kinase.
EK: Mathematical modeling of cell signaling and stress response in the yeast *Saccharomyces cerevisiae*.
SM: How signal encoding on phosphosite clusters determine the accuracy, fidelity and robustness of a cell fate decision.
GDR: Iztli Petides: Design of new drugs using systems biology approaches.

16:00 - 16:30 Coffee break

SS 4.3 Signaling and Ageing



Vilhem Bohr Stathis Gonos Bertrand Friguet Shaday Michán

VB: Nuclear and mitochondrial DNA repair and aging.
SG: PROTEASOME ACTIVATION DELAYS AGING IN HUMAN CELLS.
BF: Alterations of metabolic pathways during senescence and upon oxidative stress: a proteomic approach.
SM: Sirtuins and acetylome: two master regulators of aging.

SS 5.3 Ligand-Receptor interactions



Andrew Hinck Moosa Mohammadi Steve Hubbard Mark Lemmon

AH: The T β R-I:T β R-II heterotetramer is comprised of two T β R-I:T β R-II heterodimers that bind and signal independently: Implications for betaglycan-mediated receptor complex assembly and signaling.
MM:
SH: Structural and biochemical studies of the pseudokinase domain of Jak2.
ML: New Lessons in Regulation of EGFR/ErbB Family Receptor Tyrosine Kinases

Short Oral Presentations from abstracts, Session 2, Tuesday, October 25, 16:30-18:30 PM at Fiesta Americana.

16:30-16:45	T034	Ectodomain Shedding of Interleukin-2 Receptor β and Generation of an Intracellular Functional Fragment. Pavel Montes de Oca. <i>INNN, Mexico City, Mexico</i>
16:45-17:00	T036	PROLYL OLIGOPEPTIDASE AS NOVEL PLAYER IN CELLULAR SIGNALLING: IMPLICATIONS IN NEUROINFLAMMATION AND NEURODEGENERATION. Juan Arturo García-Horsman. <i>University of Helsinki, Helsinki, Finland</i>
17:00-17:15	T002	Regulatory mechanisms of the stress-responsive kinase ASK1 by ubiquitination in response to oxidative stress Atsushi Matsuzawa. <i>The University of Tokyo, Tokyo, Japan</i>
17:15-17:30	W010	Metabolic failure and oxidative stress intertwining due to fatty acid excess: rationale for a clinical trial for adrenoleukodystrophy. Aurora Pujol. <i>IDIBELL, Barcelona, Spain</i>
17:30-17:45	W043	Reprogramming GTPase Networks to Drive Macropinocytotic Death of Brain Tumors. Susan Meakin. <i>University of Western Ontario, London, Canada</i>
17:45-18:00	W123	α -Tocopheryl phosphate – an activated form of vitamin E important for angiogenesis and vasculogenesis? Jean-Marc Zingg. <i>Tufts University, Boston, MA, USA</i>
18:00-18:15	T121	NOX2 ACTIVATED BY ADRENOCEPTORS MODULATES HEPATIC METABOLIC ROUTES. Enrique Piña. <i>FACULTAD DE MEDICINA UNAM, Mexico City, Mexico</i>
18:15-18:30	T126	MUSCLE-TYPE 6-PHOSPHOFRUCTO-1-KINASE AND ALDOLASE ASSOCIATE CONFERRING CATALYTIC ADVANTAGES FOR BOTH ENZYMES. Mariah Marcondes Celestino . <i>UFRJ, Rio de Janeiro, Brazil</i>

Poster Viewing

at Holyday Inn

Simultaneous symposia Wednesday Afternoon

SS 1.4 Angiogenesis



Shigetomo Fukuhara Jesus Torres-Vazquez Carmen Clapp Young Guen-Kwon

SF: Visualization of endothelial cell dynamics during vascular formation by in vivo bioimaging.
JTV: Sculpture lessons: How the zebrafish shapes its vessels.
CC: Prolactin and vasoinhibins: Endogenous players in diabetic retinopathy.
YGK: Novel roles of Dickkopfs and LDB2 in angiogenesis and vascular patterning.

SS 2.4 Metabolic syndrome



Robert Screatton Marcia Hiriart Joan Guinovart Armando Tovar

RS: Lkb1 and the AMPK family in the beta cell.
MH: Mechanisms of hyperinsulinemia in the Metabolic syndrome.
JG: Signaling by glycogen.
AT: Nutrigenomics and metabolic syndrome.

SS 3.4 Redox regulation of gene expression



Mahara Valverde Peter Storz Francisco Schopfer Mina Konigsberg

MV: Effects of environmental pollutants on the Nrf2 survival pathway.
PS: Oxidative stress signaling in pancreatic acinar-to-ductal metaplasia.
FS: Cellular formation and protective signaling actions of fatty acid-derived electrophiles in inflammation.
MK: Bcl-2 sustains an hormetic response to mild oxidative stress by activating Nrf-2.

16:00 - 16:30 Coffee break

SS 4.4 PABMB Cell Signaling in metabolism



Homero Rubbo pending speaker Antonio Zorzano Sergio Lavandero

HR: Nitro-fatty acids: Formation, Redox Signaling and Therapeutic potential.
AZ: In vivo control of metabolism by the mitochondrial protein Mfn2.
SL: Mitochondrial dynamics and metabolism are regulated by insulin.

SS 5.4 Signaling in eukaryotic microorganisms



Jesus Aguirre Elena Hidalgo Alfredo Herrera-Estrella Miguel Angel de la Rosa

JA: Stress signal transduction and cell differentiation in filamentous fungi.
EH: Regulation of gene expression programs by the transcription factor Pap1 and the stress-dependent MAP kinase Sty1 of *Schizosaccharomyces pombe*.
AHE: A highly conserved injury response mechanism determines entry into a developmental program in the filamentous fungus *Trichoderma atroviride*.
MADIR: Evolutionary Analysis and Proteomic Screening of Novel Partners of Cytochrome c.

Technical Talks sponsored by Millipore and BD Biosciences

16:30-17:30

Milliplex MAP EpiQuant Technology: Your solution for cell signaling analysis.
Samuel Garcia Nieto, PhD. Merck-Millipore.

Phosphorylation state analysis in single cells and multiplexed quantification of phospho proteins.
Eduardo Infante. BD Biosciences

17:30-18:30

Career Development Workshop: How to write, submit and get published a scientific paper

Chair: Angelo Azzi (President of the IUBMB and Chief Editor of IUBMB Life)
 with the participation of
Nancy R. Gough, Ph.D. Editor, Science Signaling
 and
 Elizabeth Cox, from Wiley, the IUBMB Life Publisher

18:30-20:30

**Poster Viewing
 at Holyday Inn**

Poster Viewing at Holyday Inn

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Poster Sessions

Session 1, (S), lunch time and evening, Sunday, October 23.

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Poster No.	Title. Authors. Institution. Country
S001	Glutathione metabolism in a model of obesity induced by high sucrose diet: effect of glycine. <i>Pineda Flores JA et al. Instituto Nacional de Cardiología "Ignacio Chávez", Mexico</i>
S002	REDOX MODULATION OF HUMAN RECOMBINANT SIRT1. <i>Santos L et al. Facultad de Ciencias. Universidad de la República, Uruguay</i>
S003	PHOSPHORYLATION POLY-ADP-RIBOSYLATION AND O-N-ACETYLGUCOSAMINYLATION OF p53 IN RINm5F CELLS CULTURED IN HIGH GLUCOSE. <i>Flores-López LA et al. HOSPITAL DE ESPECIALIDADES CMNSXXI, IMSS, Mexico</i>
S004	EFFECT OF ANTIOXIDANTS SUPPLEMENTATION IN THE TREATMENT OF METABOLIC SYNDROME IN ALBINO RATS. <i>Bilbis LS et al. Usmanu Danfodiyo University Sokoto, Nigeria</i>
S005	CASCADE OF REACTIONS FOR INSULIN-GENERATED H ₂ O ₂ TO INHIBIT PKA IN ADIPOCYTES. <i>Vázquez-Meza H et al. Universidad Nacional Autónoma de México, Mexico</i>
S006	GLUCURONOXYLOMANNAN FROM CRYPTOCOCCUS NEOFORMANS DOWN-REGULATES THE ENZYME 6-PHOSPHOFRUCTO-1-KINASE OF MACROPHAGES. <i>Gréchi J et al. UFRJ, Brazil</i>
S007	Oxidative STRESS induces the phosphorylation of THE eif4e-transporter and regulates the assembly of P-BODIES. <i>Cargnello M et al. IRIC, Canada</i>
S008	NapA A TRANSCRIPTIONAL FACTOR REQUIRED FOR THE REGULATION OF THE ANTIOXIDANT RESPONSE IN <i>Aspergillus nidulans</i> . <i>Lara F et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
S009	ROS-DEPENDENT AND INDEPENDENT FUNCTIONS OF NADPH OXIDASES IN <i>Neurospora crassa</i> . <i>Ortiz-García C et al. INSTITUTO DE FIOLOGIA CELULAR UNAM, Mexico</i>
S010	Effects of the novel compound IFC-305 over the Kupffer cells population oxidative stress and inflammatory cytokines during cirrhosis development stages. <i>Pérez-Cabeza de Vaca R et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
S011	HUMAN CRF2(A) RECEPTOR DESENSITIZATION AND β -ARRESTIN2 RECRUITMENT GOVERNED BY AGONIST POTENCY. <i>Olivares-Reyes JA et al. Centro de Investigación y de Estudios Avanzados, Mexico</i>
S012	M-RAS INDUCES RAL AND JNK ACTIVATION TO REGULATE MEK/ERK-INDEPENDENT GENE EXPRESSION IN MCF-7 BREAST CANCER CELLS. <i>Castro AF et al. Universidad de Concepcion, Chile</i>
S013	Role of 3'-phosphoinositide-dependent protein kinase 1 (PDK1) on α 1B-adrenergic receptor phosphorylation and function. <i>Alcántara Hernández R et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
S014	AT1 RECEPTOR FUNCTION IS REGULATED BY INSULIN-INDUCED β -ARRESTIN-1 EXPRESSION IN HEK-293 CELLS. <i>Jiménez-Mena LR et al. CINVESTAV-IPN, Mexico</i>
S015	INVOLVEMENT OF PKC α AND PKC β IN THE DESENSITIZATION OF LPA1 RECEPTOR. <i>Hernández-Méndez A et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
S016	THE G α SUBUNIT SIGNALS THROUGH THE Ste50 PROTEIN DURING THE MATING PHEROMONE RESPONSE IN THE YEAST <i>Kluyveromyces lactis</i> . <i>Kawasaki-Watanabe L et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
S017	The E3 Ligase Trim32 is an Effector of the Ras family GTPase Rap2. <i>Demiray B et al. UCL Cancer Insititute, United Kingdom</i>
S018	P-Rex1 a G $\beta\gamma$ - and PIP3-dependent guanine nucleotide exchange factor for Rac interacts with a Protein Kinase A regulatory subunit. A possible spatiotemporal regulation during angiogenic signaling transduction. <i>Chávez-Vargas L et al. CINVESTAV-IPN, Mexico</i>
S019	Role of PI3K and Rac1 in astrocyte migration induced by the engagement of α v β 3 integrin and syndecan-4 by Thy-1. <i>Kong M et al. Facultad de Medicina, Universidad de Chile, Chile</i>
S020	S-NITROSYLATION ACTIVATES RAS-MEDIATED CELL PROLIFERATION IN A TWO-STEP PROCESS FROM THE MEMBRANE TO THE GOLGI APPARATUS. <i>Batista WL et al. Universidade Federal de Sao Paulo, Brazil</i>
S021	Molecular Mechanism of Chemotactic and Angiogenic Factors Secretion Mediated by Calcium Sensing Receptor in Breast Cancer Cells. <i>Hernández-Bedolla MA et al. CINVESTAV, Mexico</i>
S022	Membrane microdomains modify K-Ras function. <i>Corcoran D et al. University of Illinois at Chicago, USA</i>
S023	mTORC2 REGULATES CELL MIGRATION VIA P-REX1 IN THE SIGNALING CASCADE OF CXCR4 RECEPTORS. <i>Olguin-Olguin A et al. Cinvestav, Mexico</i>
S024	SPHINGOSINE-1-PHOSPHATE-MEDIATED α 1B-ADRENOCEPTOR DESENSITIZATION AND PHOSPHORYLATION DIRECT AND PARACRINE / AUTOCRINE ACTIONS. <i>Castillo-Badillo JA et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
S025	Clathrin- and dynamin-independent endocytosis of FGFR3 – implications for signalling. <i>Ellen Margrethe Haugsten et al. Institute for Cancer Research, Norway</i>
S026	Functional role of cysteine residues present in the carboxyl terminal domain of hFSHR in recycling. <i>Melo-Nava B et al. Instituto Mexicano del Seguro Social, Mexico</i>
S027	PARCS/GPN3 IS REQUIRED FOR THE NUCLEAR ACCUMULATION OF RNA POLYMERASE II. <i>Moreno-Aguilar CA et al. Instituto de Fisica, Mexico</i>
S028	REGULATION OF CLAUDIN 2 BY EGF. <i>García Hernández V et al. CINVESTAV, Mexico</i>
S029	ROLE OF THE LOW-DENSITY LIPOPROTEIN RECEPTOR RELATED PROTEIN 1 (LRP1) IN CCN2 PROTEIN TRANSPORTATION IN CHONDROCYTES. <i>Kazumi Kawata et al. Okayama University, Japan</i>
S030	SIGNALING SYSTEMS UTILIZING ERK MAP KINASE ACTIVATE CANONICAL WNT/BETA-CATENIN SIGNALING VIA LRP6 PHOSPHORYLATION. <i>Krejci P et al. Cedars Sinai Medical Center, USA</i>
S031	THE ROLE OF MAPK AND AKT PATHWAYS IN NUCLEOCYTOPLASMIC SHUTTLING OF Elk-1 IN BRAIN TUMOR –DERIVED CELL LINES AND THE RAN GTP-GDP CYCLE. <i>Mut M et al. YEDITEPE UNIVERSITY, Turkey</i>
S032	REGULATION OF ANGIOPOIETIN-1/TIE-2 RECEPTOR SIGNALING IN ENDOTHELIAL CELLS BY DUAL-SPECIFICITY PHOSPHATASES. <i>Echavarría R et al. McGill University Health Centre, Canada</i>
S033	C-Kit signaling depends on Mitf for effects on cell proliferation. <i>Phung Bengt et al. Lund University, Sweden</i>
S034	Characterisation of GSK2334470 - a novel and highly specific inhibitor of PDK1. <i>Ayaz Najafov et al. College of Life Sciences, University of Dundee, United Kingdom</i>
S035	Akt degradation by direct interaction with Bag5. <i>Bracho-Valdés I et al. CINVESTAV, Mexico</i>
S036	Phospholipase C γ -mediated activation of Akt Regulates PDGF-BB-Induced m-TOR /Akt signaling. <i>Razmara M et al. Ludwig Institute for cancer research (LICR), Ltd, SWEDEN</i>
S037	Benefits in Therapy Based on Substrate Competitive Inhibitors of GSK-3. <i>Licht-Murava A et al. Tel Aviv University, Israel</i>

S038	Distinct involvement of the Gab1 and Grb2 adaptor proteins in signal transduction by the related receptor tyrosine kinases RON and MET. <i>Amitabha Chaudhuri et al. Genentech Inc, USA</i>
S039	The PKA/cAMP-activated 14-3-3-binding phosphoproteome. <i>Reetoo N et al., University of Dundee, United Kingdom</i>
S040	Tyrosine Phosphorylation Turns Alkaline Transition Into a Biologically Relevant Process and Makes Human Cytochrome c Behave as an Anti-apoptotic Switch. <i>Díaz-Moreno I et al. CIC CARTUJA - UNIVERSIDAD DE SEVILLA, SPAIN</i>
S041	Characterization of the SHO1 BRANCH of the High Osmolarity Glycerol pathway of the yeast <i>Kluyveromyces lactis</i> . <i>Velázquez Zavala N et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
S042	A NON-CANONICAL MECHANISM OF REGULATION OF MAMMALIAN STERILE 20/SPS1-LIKE KINASE 3 (MST3). <i>Sugden PH et al. University of Reading, UK</i>
S043	The ribosomal S6 kinase 2 (RSK2) binds and phosphorylates FGFR1. <i>Nadratowska-Wesolowska Beata et al. Institute for Cancer Research, Norway</i>
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T037	SnoN oncoprotein degradation induced by anisomycin is mediated by TGF- β type I receptor/ALK5 but independently of Smad phosphorylation. <i>Vázquez-Macias A et al. Universidad Autónoma Metropolitana-Cuajimalpa, Mexico</i>
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	<i>Ibarra-Sánchez A et al. CINVESTAV, Mexico</i>
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	<i>León-Buitimea A et al. Facultad de Farmacia, UAEMor, Mexico</i>
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	<i>Pansare KJ et al. Aston University, United Kingdom</i>
W041	Evaluation of the in vitro effects of collagen-PVP on murine HSCs. <i>González-Arenas NR et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
W042	Differential expression of E-cadherin in uterous during cycle sexual in adult rat. <i>Jiménez-Trejo F et al. Universidad Nacional Autonoma de Mexico, Mexico</i>
W043	Reprogramming GTPase Networks to Drive Macropinocytotic Death of Brain Tumors. <i>Li C et al. University of Western Ontario, Canada</i>
W044	EFFECTS OF DIETARY FLAVONOID LUTEOLIN ON SHORT- MEDIUM- AND LONG-TERM GROWTH FACTOR-MEDIATED SIGNALING IN PANCREATIC AND BREAST CANCER CELLS. <i>Aksamitiene A et al. Thomas Jefferson University, USA</i>
W045	Enrichment of IL-1 β highly responsive MCF-7 cell subpopulations: a method to assess the onset of an epithelial phenotype transition. <i>Pérez-Yepe EA et al. Centro de Investigación y de Estudios Avanzados, Mexico</i>
W046	RAC1 IS EXPRESSED IN THE NUCLEUS OF EPITHELIAL CELLS IN CERVICAL PREMALIGNANT LESIONS AND IN CERVICAL CANCER CELL LINES AND ITS CHEMICAL INHIBITION REDUCES CELL PROLIFERATION. <i>Mendoza-Catalán MA et al. UNIVERSIDAD AUTONOMA DE GUERRERO, Mexico</i>
W047	ROLE OF HPV18 E2 INTRATYPE VARIATIONS IN CELL DEATH SIGNALING PATHWAYS. <i>Fuentes AM et al. INCan/IIB UNAM, Mexico</i>
W048	EFFECT OF PRODUCTS SECRETED BY CELL LINES OF BREAST CANCER IN VASCULAR PERMEABILITY CHANGES ASSOCIATED WITH METASTASIS. <i>García-Román J et al. Instituto Nacional de Nutrición Salvador Zubiran, Mexico</i>
W049	BLM helicase activity contributes to alternative telomere maintenance. <i>Du Juan et al. Washington University School of Medicine, USA</i>
W050	TNF IS A MAYOR ACTIVE COMPONENT SECRETED BY ZR 7530 BREAST CANCER CELLS IN THE INDUCTION OF HUVEC'S ACTIVATION IN VITRO. <i>Escalona-Guzmán A R et al. Insitituto de Investigaciones Biomédicas, UNAM, Mexico</i>
W051	AN IN SILICO STUDY OF CELL-TO-CELL SIGNALING AND ANGIOGENESIS. <i>Samlı A et al. Bogazici University, Turkey</i>
W052	THE MUCIN CD43 CONTRIBUTES TO CELL TRANSFORMATION IN NON-HEMATOPOIETIC CELLS THROUGH ITS PRO-RICH REGION. <i>Miguelos-Lozano OA et al. Instituto de Biotecnología, UNAM, Mexico</i>
W053	CD19/CD81 physically interacts with CD38 but is not required to induce proliferation in mouse B lymphocytes. <i>Vences-Catalán F et al. CINVESTAV-IPN, Mexico</i>
W054	Endotoxin tolerance modifies FceRI signal transduction system allowing higher TNF and IL6 production after IgE/antigen stimulation in mast cells. <i>Medina-Tamayo J et al. UNAM, Mexico</i>
W055	TLR SIGNALING DOWN-MODULATES CD43 EXPRESSION IN HUMAN T LYMPHOCYTES. <i>Márquez-Hernández AC et al. Instituto de Biotecnología, UNAM, Mexico</i>
W056	PHARMACOLOGICAL CHARACTERIZATION OF THE MECHANISM OF TUMOR NECROSIS FACTOR (TNF) RELEASE IN MAST CELLS STIMULATED WITH LIPOPOLYSACCHARIDE. <i>Madera-Salcedo IK et al. Cinvestav, Mexico</i>
W057	Mutation of CD40L and AID in Mexican patients with Hyper-IgM syndrome. <i>Vargas-Hernández A et al. CINVESTAV-IPN, Mexico</i>
W058	Negative control of TNF secretion in Lipopolysaccharide-stimulated mast cells: the role of protein kinase Fyn. <i>González-Espinosa C et al. CINVESTAV Sede Sur, Mexico</i>
W059	CD43 PROMOTES TNF-ALPHA PRODUCTION IN HUMAN MACROPHAGES. <i>Torres Huerta A et al. Universidad Autonoma del Estado de Morelos, Mexico</i>
W060	INDUCTION OF ER STRESS IN RESPONSE TO OXYGEN-GLUCOSE DEPRIVATION OF CORTICAL CULTURES INVOLVES THE ACTIVATION OF THE PERK AND IRE-1 PATHWAYS AND OF CASPASE-12. <i>Badiola N et al. Universitat Autònoma de Barcelona, Spain</i>
W062	Over-expression of CD300f has a neuroprotective role in a model of acute brain injury. <i>Sayós J et al. Instituto de Fisiología Celular, UNAM, Mexico</i>
W063	G $\beta\gamma$ modulation of glycine receptor can interfere with synaptic effect of ethanol. <i>San Martin L et al. University of Concepcion, Chile</i>
W064	CHARACTERIZATION OF Dp71 Δ 78-79 A NOVEL DYSTROPHIN MUTANT THAT STIMULATES PC12 CELL DIFFERENTIATION. <i>Aragón Jorge et al. Centro de Investigación y de Estudios Avanzados, Mexico</i>
W065	CHANGES IN HIPPOCAMPAL HISTONE ACETYLATION PATTERNS AND MEMORY IMPAIRMENT PRODUCED BY REPEATED TOLUENE EXPOSURE IN RATS. <i>Sánchez-Serrano S L et al. CINVESTAV, Mexico</i>
W066	CB1/ μ RECEPTOR COACTIVATION STIMULATES GABA RELEASE AT STRIATO-PALLIDAL TERMINALS VIA PLC \rightarrow DAG \rightarrow IP3 PATHWAY. <i>Caballero-Florán R et al. CINVESTAV-IPN, Mexico</i>
W067	EFFECT OF THE TOXIC TBHQ INDUCTOR MPP + IN PRIMARY ASTROCYTES CEREBRAL CORTEX NEONATAL RATS ADULT AND SENILE A MODEL FOR STUDYING PARKINSON'S DISEASE. <i>Alarcón Aguilar A et al. UNIVERSIDAD AUTÓNOMA IZTAPALAPA, Mexico</i>
W068	CAMKII ACTIVATION BY CA2+ SWITCHES A2A/D2 RECEPTOR COACTIVATION SIGNALING ON GABA RELEASE AT STRIATO-PALLIDAL TERMINALS. <i>Recillas S et al. CINVESTAV-IPN, Mexico</i>
W069	Distribution and localization of Rho GTPases in rat brain and mitochondria. <i>Martínez Alcantar L et al. UNIVERSIDAD MICHOACAN DE SAN NICOLAS DE HIDALGO, Mexico</i>
W070	DIFFERENTIAL SIGNALING OF AN ANTIFUNGAL PEPTIDE IN TWO YEASTS. <i>Ronces-Frutos LE et al. Instituto Nacional de Fisiología, Mexico</i>
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W075	PROSTAGLANDIN E2 INFLUENCE EXPRESSION OF PHOSPHOPROTEINS IN AN INSECT CELL LINE (C6/36). <i>González-Calixto C et al. CINVESTAV-IPN, Mexico</i>
W076	Analysis of autophagy as a defense response in M sexta larvae intoxicated with <i>Bacillus thuringiensis</i> Cry1Ab toxin. <i>Jiménez G et al. Instituto de Biotecnología, UNAM, Mexico</i>
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W078	Role of the MAPKs and PKC in the induction of COX-2 in cardiomyocytes induced by the lipoteichoic acid of <i>Streptococcus sanguinis</i> and the lipopolysaccharide of <i>Porphyromonas gingivalis</i> . <i>Bando-Campos CG et al. Universidad Nacional Autónoma de México, Mexico</i>
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W081	A TARGET OF RAPAMYCIN KINASE ORTHOLOG IS PRESENT IN <i>TOXOPLASMA GONDII</i> . <i>Patlán Gómez MS et al. Facultad de Medicina, Universidad Veracruzana, Mexico</i>
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W084	HETEROLOGOUS EXPRESSION AND CHARACTERIZATION OF A SUPEROXIDE DISMUTASE FROM THE ARCHEON THERMOPLASMA ACIDOPHILUM. <i>Esparza de Lara JE et al. IPICYT A.C., Mexico</i>
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W090	The mitogen-activated protein kinase p38 pathway is involved in insect defense against Cry toxins from <i>Bacillus thuringiensis</i> . <i>Cancino-Rodezno A et al. Instituto de Biotecnología, UNAM, Mexico</i>
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W127	GENE EXPRESSION AND ACTIVITY OF ENZYMES OF GLUTAMATE AND GABA METABOLISM IN THE LIVER IN A PROTOCOL OF CIRCADIAN FOOD ENTRAINMENT. <i>Méndez I et al. Instituto de Neurobiología, UNAM, Mexico</i>
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