



VI MEETING OF THE FREE RADICALS AND OXIDATIVE STRESS
BRANCH OF THE MEXICAN BIOCHEMICAL SOCIETY

VII INTERNATIONAL WORKSHOP ON COMPARATIVE ASPECTS
OF OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS

May 23-25, 2017

Atlixco, Puebla



PROGRAM

Tuesday, May 23

12:00 - 19:00	Registration
13:30 - 16:00	Lunch
15:30 - 16:00	Welcome remarks
	Topic 1 Free Radicals in Medicine I
Conveners	Dr. Enrique Salas Vidal
16:00-17:00	INAUGURAL LECTURE Dr. Luis Enrique Gómez Quiroz Universidad Autónoma Metropolitana – Iztapalapa “Redox changes in liver diseases”
17:00-17:20	Miriam Abigail Rojas Alarcón Instituto de Cancerología “Molecular mechanisms of alpha mangotín in combination with cisplatin in cervical cancer”
17:20-17:40	Yessica Dorin Torres Ramos Instituto Nacional de Perinatología “Evaluation of oxidative stress in HDL and LDL lipoproteins in newborns of women with preeclampsia”
17:40-18:00	Celeste Trejo Moreno Universidad Autónoma del Estado de Morelos “Effect of F1 and F3 subfractions obtained from the CS-AQ to control endothelial dysfunction: in vitro studies”
18:00 - 19:00	Business session/Poster Session A
19:00 - 20:00	Poster Session A
20:00 - 22:00	Mixer and Dinner



Wednesday, May 24

07:00 - 8:45	Workshop: MINA KÖNIGSBERG Universidad Autónoma Metropolitana – Iztapalapa The free radical theory of aging proposed by Harman. A review
8:30 - 13:00	Registration
8:45 - 10:00	Breakfast
	Topic 2 Free Radicals in Cell Signaling
Conveners	Dr. Luis Enrique Gómez Quiroz
10:00 - 11:00	Plenary Lecture 2 David Lambeth, Ph. D. Emory University School of Medicine, Atlanta, EU. “NOX Enzymes: New Concepts Regarding their Regulation and Roles in Disease”
11:00-11:20	Arturo Simoni Nieves Universidad Autónoma Metropolitana “NAPDH oxidase subunits expression correlates with malignancy in hepatocellular carcinoma”
11:20-11:40	José Antonio Sánchez Villanueva Universidad Autónoma del Estado de Morelos “Modulation of human neonatal CD8+t lymphocytes activation and differentiation by ROS signaling”
11:40-12:00	Marco Antonio Zaragoza Campillo Universidad Nacional Autónoma de México “Role of reactive oxygen species in the regulation of the AKT-TXNIP signaling under apoptotic conditions in cerebellar granule neurons”
12:00 - 12:15	Coffee Break
	Topic 3 Free Radicals in microorganisms
Conveners	Dr. Alejandro De las Peñas
12:15 - 13:15	Plenary Lecture 3 Dr. Willhem Hansberg “Cell differentiation: dioxygen avoidance theory”



VI MEETING OF THE FREE RADICALS AND OXIDATIVE STRESS
BRANCH OF THE MEXICAN BIOCHEMICAL SOCIETY

VII INTERNATIONAL WORKSHOP ON COMPARATIVE ASPECTS
OF OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS

May 23-25, 2017

Atlixco, Puebla



13:15 - 13:35	Alejandra Yitzel Guzmán Hernández Universidad Michoacana de San Nicolas de Hidalgo “Actividad antioxidante de los compuestos fenólicos del frijol pinto criollo y comercial in vitro e in vivo”
13:35 - 13:55	María Viridiana Olin Sandoval Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán “An alternative polyamine pathway maintains lysine plasticity in response to oxidative stress in <i>Saccharomyces cerevisiae</i> ”
13:55 - 14:15	Gabriel Luna Arvizu Instituto Potosino de Investigación Científica y Tecnológica “ <i>Candida glabrata</i> resistance to oxidative stress through <i>CTA1</i> gene regulation”
14:15 - 16:00	Lunch
	Topic 4 Free Radicals in Medicine II
Conveners	Dra. Laura J. Pérez Flores
16:00 - 17:00	Plenary Lecture 4 Dr. Fernando Carrari Instituto Nacional de Tecnología Agropecuaria, Argentina “A multi-holistic approach to the understanding of the (epi)genetics and molecular bases determining nutritional quality and biological activity in fruits”
17:00 - 17:20	Adriana Guadalupe Pérez Ruíz Instituto Politécnico Nacional “Evaluation of the activity antitumoral of nanoparticles (-)-epicatechin-loaded chitosan and its relationship with reactive oxygen species”
17:20- 17:40	Juana Rosado Pérez FES Zaragoza UNAM “Relationship between oxidative stress markers and glucemia in diabetic elderly”
17:40- 18:00	Diego Rolando Hernández Espinosa Universidad Nacional Autónoma de México “Activity of nox-2 as a fundamental piece of the microglial response to excitotoxic damage”
18:00 - 20:00	Poster Session B
20:00 - 22:00	Dinner and Conference Picture



Thursday , May 25

07:00 - 8:45	Workshop Dr. Enrique Salas Instituto de Biotecnología, UNAM. “New Techniques and Methods in Oxidative Stress Research”
8:45 - 10:00	Breakfast
	Topic 5 Free Radicals in Cell Biology
Conveners	Dra. Guadalupe Gutiérrez
10:00 - 11:00	Plenary Lecture 5 Dr. Mina Königsberg Universidad Autónoma Metropolitana - Iztapalapa “Redox state’s role in the mechanisms and signaling pathways of senescence induction”
11:00 - 11:20	Ulalume Hernández Arciga Universidad Nacional Autónoma de México “Physiological adaptations against stress in the fishing bat <i>myotis vivesi</i> in a highly seasonal environment”
11:20 – 11:40	Adriana Francisco-Balderas Instituto Nacional de Rehabilitación “Association of polymorphisms of reactive oxygen species modulator 1 (<i>romo1</i>) gene with nonalcoholic steatohepatitis development”
11:40 – 12:00	Gibrán Pedraza Vázquez Universidad Autónoma Metropolitana “Autophagy inhibition with spautin-1 leads to cellular senescence through oxidative stress related mechanisms in primary cultured astrocytes”
12:00 - 12:15	Coffee Break



VI MEETING OF THE FREE RADICALS AND OXIDATIVE STRESS
BRANCH OF THE MEXICAN BIOCHEMICAL SOCIETY

VII INTERNATIONAL WORKSHOP ON COMPARATIVE ASPECTS
OF OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS

May 23-25, 2017

Atlixco, Puebla



Thursday , May 25

	Topic 6 Emergent topics, methods and models for ROS study
Conveners	Dra. Roxana Miranda
12:15 - 13:15	Plenary Lecture 6 Dr. Julio Moran Instituto de Fisiología Celular, UNAM "Role of oxygen reactive species and nox in the development of the nervous system"
13:15 - 13:35	Vanessa Labrada Martagón Universidad Autónoma de San Luis Potosí "Evaluation of oxidative stress indicators in green turtle chelonia mydas afflicted with fibropapilloma in mexican caribbean"
13:35 - 13:55	Mario Adan Mendieta Serrano Universidad Nacional Autónoma de México "Reactive oxygen species dynamics in developing zebra fish embryos"
13:55 - 14:15	Claudia Álvarez Carreño Universidad Nacional Autónoma de México "Evolution of the hemerythrin-like domain superfamily"
14:15 - 16:00	Summary, Discussion and Lunch
	Conference Ends



May 23-25, 2017

Atlixco, Puebla

POSTERS PROGRAM

SESSION A. ODD NUMBERS

SESSION B. PAIR NUMBERS

1	H ₂ O ₂ IS THE SECOND MESSENGER FOR α_1 -ADRENERGIC RECEPTORS IN HEPATOCYTES Guinzberg PR , Vilchis LMM, Díaz-Cruz A y Piña GE. Facultad de Medicina, Universidad Nacional Autónoma de México
2	EFFECT OF N-ACETYLCYSTEINE ON MITOCHONDRIAL BIOENERGETIC AND H ₂ O ₂ PRODUCTION ON EXPERIMENTAL ACUTE KIDNEY DISEASE INDUCED BY FOLIC ACID. Aparicio-Trejo OE , Tapia E, Medina-Campo ON, Pedraza-Chaverri J. Department of Biology, Faculty of Chemistry, National Autonomous University of Mexico (UNAM)
3	MAIZE SCUTELLUM EPIDERMIS TRANSFORMATION TO EPITHELIUM AND FACTORS THAT ENABLE THE MORPHOLOGICAL CHANGE. Díaz-Pontones DM , Corona-Carrillo JI, Chávez-Nájera G, Ponce-Sánchez C, Hernández de la Cruz FJ. Departamento de Ciencias de la Salud. División de Ciencias Biológicas y de la Salud. UAMI
4	EVALUATION OF THE ANTIGENOTOXIC CAPACITY OF A MICROENCAPSULATED OF GRANADA AGAINST THE OXIDATIVE DAMAGE PRODUCED BY ACRYLAMIDE. Madrigal-Santillán E , Morales-González JA, Madrigal-Bujaidar E, Sánchez-Gutiérrez M, Izquierdo-Vega JA, Morales-González A, Betanzos-Cabrera G. ESM, IPN
5	REDOX STATUS AND ANTIOXIDANT RESPONSE DURING FASTING Rojas-Morales P , Medina-Campos ON & Pedraza-Chaverri J. Department of Biology, Faculty of Chemistry, National Autonomous University of Mexico (UNAM).
6	APOCYNIN ACTION ON THE GROWTH OF CELL POPULATION AND MIGRATION IN MDA-MB-231 BREAST CANCER CELLS. Prado Baeza JR , Martínez Hernández MG, Viedma Rodríguez AR and Baiza Gutman LA. Unidad de Morfofisiología, Facultad de Estudios Superiores Iztacala, UNAM
7	MORPHOLOGICAL CHANGES AND ROS PRODUCTION BY IMMUNEPOTENT CRP IN CANCER CELLS: TOWARDS THE CHARACTERIZATION OF A CELL DEATH MECHANISM Alvarez-Valadez KM , Benítez-Londoño M, Reyes-Ruiz A, Martínez-Torres AC, Rodríguez-Padilla C. Unidad de Muerte Celular en Cáncer y Sistema Inmune del Laboratorio de Inmunología y Virología de la FCB/UANL.
8	KINETICS OF LIGNOLYTIC ENZYMES BY TRAMETES POLYZONA USING SOLIDSTATE FERMENTATION (SSF) IN COCONUT MESOCARP Ramírez Calzada CA , Rincón Reyna PG, Rincón Reyna J, Escutia López KN, Sánchez Pardo ME, Jiménez García E. Laboratorio de Investigación de Alimentos, Escuela Nacional de Ciencias Biológicas. IPN
9	ANTIOXIDANT ACTIVITY IN A FUNCTIONAL BREAD ADDED WITH FERMENTED COCONUT MESOCARP USING TRAMETES POLIZONA Hernández-Delgado NC , Escutia-López KN, Ramírez-Calzada CA, Hidalgo Gutiérrez SE, Enríquez-Guerra VE, Sánchez-Pardo ME, Jiménez García JE. Instituto Politécnico Nacional. Escuela Nacional de Ciencias Biológicas. IPN
10	EVALUATION OF PHYTOCHEMICALS AND ANTIOXIDANT CAPACITY OF THE SEMINAL INTEGUMENT IN PEANUT (ARACHIS HYPOGAEA) Escutia-López KN , Briseño-Bugarin J, Enríquez-Guerra VE, Ramírez Calzada CA, Hidalgo-Gutiérrez SE, Jiménez-García E, Sánchez-Pardo ME. Laboratorio de Investigación de Alimentos, Escuela Nacional de Ciencias Biológicas. IPN



VI MEETING OF THE FREE RADICALS AND OXIDATIVE STRESS
BRANCH OF THE MEXICAN BIOCHEMICAL SOCIETY

VIII INTERNATIONAL WORKSHOP ON COMPARATIVE ASPECTS
OF OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS

May 23-25, 2017

Atlixco, Puebla



11	EFFECTS OF ROS INHIBITION IN CELL DEATH AND CELL CYCLE ARREST INDUCED BY IMMUNEPOTENT-CRP IN CANCER CELL LINES Martínez-Loria AB , Reyes-Ruiz A, Martínez-Torres AC, Rodríguez-Padilla C. Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León (UANL)
12	EXPRESSION OF FIBROSIS-RELATED GENES IN PULMONARY FIBROBLASTS EXPOSED TO HYPOXIA Aquino-Gálvez A , González-Ávila G, Romero Y, Castillejos M, Torres Espíndola LM, Sommer B, Checa M, Mendoza-Milla C, Cabello-Gutiérrez C, Urrea F, Zúñiga J, Pardo A, Selman M. National Institute of Respiratory Diseases "Ismael Cosío Villegas"
13	SEPTIN CYTOSKELETON INTERACTS WITH NOX4 IN SPERMATOZOEA OF GUINEA PIG Ortiz-García CI , Roa-Espitia AL, Hernández-González Enrique O. CINVESTAV. IPN
14	CURCUMIN: A POWERFUL ANTIOXIDANT THAT REGULATES THE EXPRESSION OF PROTEINS IN THE LIVER OF DIABETIC db/db MICE Silva-Gaona OG , Vargas-Ortiz K, Hernández-Ortiz M, Ramírez-Emiliano J, Encarnación-Guevara S, Pérez-Vázquez V. División de Ciencias de la Salud, Campus León, Universidad de Guanajuato
15	MEASUREMENT OF ANTIOXIDANT CAPACITY IN AQUEOUS, ACETONIC AND ALCOHOLIC EXTRACTS OF LEAVES AND FLOWERS of <i>Cuphea wrightii</i> Orozco-Montes F , López-Rodríguez M, Gutiérrez-Castellanos S, Cortes-Rojo C, Vázquez-Hernández A and Fenton-Navarro B. Facultad de Ciencias Médicas y Biológicas "Dr. Ignacio Chávez" Universidad Michoacana de San Nicolás de Hidalgo
16	DETERMINATION OF ANTIOXIDANT ACTIVITY OF EXTRACTS OF <i>Cordia elaeagnoides</i> . Rico-Pedraza A , Vázquez-Contreras E, Letechipía-Vallejo G, Gutiérrez Castellanos S, Vázquez-Hernández A, Cortés Rojo C, and Fenton-Navarro B. CNI, UAM Cuajimalpa
17	EFFECT OF A FUNTIONAL FOOD WITH RICE BRAN ON OXIDATIVE STRESS IN PERSONS WITH OVERWEIGHT AND OBESITY Novelo Pastrana JE , Olivares Corichi IM, González Rosendo G, Quintero Gutiérrez AG, Villanueva Sánchez J, García Sánchez JR. Escuela Superior de Medicina. IPN
18	CHITOSAN-COATED GOLD NANOPARTICLES INDUCE REACTIVE OXYGEN SPECIES-DEPENDENT CELL DEATH IN LEUKEMIC CELL LINES Lorenzo-Anota HY , García-Juárez MG, Martínez-Torres AC, Zárata-Triviño D, Rodríguez-Padilla C. Unidad de Muerte Celular Regulada en Cáncer y Sistema Inmune. Laboratorio de Inmunología y Virología. Universidad Autónoma de Nuevo León
19	MODULATION OF REACTIVE OXIGEN SPECIES GENERATION AND THE PHAGOCYITIC PROCESS BY HEPATOCYTE GROWTH FACTOR IN ALVEOLAR MACROPHAGUES J774A.1. Escobedo-Calvario OA , Simoni-Nieves A, Bello-Monroy O, Bucio L, Souza V, Miranda Labra RU, Pérez-Aguilar B, Gutiérrez-Ruiz MC, Hernández-Pando R, Gómez-Quiroz LE. Laboratorio de Fisiología Celular, Departamento Ciencias de la Salud, UAMI
20	EVALUATION OF LIPID PROFILE AND OXIDATIVE DAMAGE IN HDL AND LDL OF WOMEN WITH PREECLAMPSIA León-Reyes G , Rodríguez-Páez LI, Maida-Claros RF, Fuentes-García S, Torres-Ramos YD. Departamento de Bioquímica, ENCB-IPN
21	EVALUATION OF THE PROCESS OF LIPOPEROXIDATION IN NEONATES OF WOMEN WITH PREECLAMPSIA Ruiz-García E , León-Reyes G, Torres-Ramos YD. Tecnológico de Estudios Superiores Huixquilucan
22	EFFECT OF THE STATE OF CHRONIC OXIDATIVE STRESS ON THE P2X7 RECEPTORS AND THE METABOLISM OF GLUCOGEN IN HYPOCAMPUS OF RATS EXPOSED TO



VI MEETING OF THE FREE RADICALS AND OXIDATIVE STRESS
BRANCH OF THE MEXICAN BIOCHEMICAL SOCIETY

VII INTERNATIONAL WORKSHOP ON COMPARATIVE ASPECTS
OF OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS

May 23-25, 2017

Atlixco, Puebla



	OZONE Velázquez-Pérez R , Rodríguez-Martínez E, Díaz-Rebollar Z, Borgonio-Pérez G. and Rivas-Arancibia S. Facultad de Medicina UNAM
23	CONTROLLED AND UNCONTROLLED PHYSICAL ACTIVITY ON OXIDATIVE STRESS IN OLDER ADULTS WITH OBESITY Sanchez Carrillo W , Barron Inclan MF, García-Sánchez JR, Olivares-Corichi IM, Gutiérrez-López L. SEPI-ESM-IPN.
24	SARCOPENIC OBESITY IN ELDERLY ADULTS AND DECREASE OF OXIDATIVE STRESS AND RISK OF FRAGILITY WITH A PROGRAM OF EXERCISE Ramírez Torres EH , García-Sánchez JR, Olivares-Corichi IM, Gutiérrez-López L. SEPI-ESM-IPN.
25	EFFECT OF MELATONIN ON OXIDATIVE STRESS MARKERS IN HEART, LIVER, KIDNEY AND BRAIN OF BALB/c MICE SUBJECTED TO CHRONIC SLEEP DEPRIVATION Álvarez-Valadez MR , Morales-Sánchez EW, Cid-Hernández M, Pacheco-Moisés FP, Ortiz GG, López-Armas GC, González-Castañeda RE. CUCEI. Universidad de Guadalajara
26	EFFECT OF OXIDATIVE STRESS ON THE EXPRESSION OF INFLAMMATORY MARKERS IN HYPOCAMPUS OF RATS EXPOSED TO LOW OZONE Rodríguez-Martínez E , Díaz-Rebollar Z, De la O Martínez A, and Rivas Arancibia S. Departamento de Fisiología, Facultad de Medicina, UNAM. CDMX
27	EFFECT OF CONTROLLED PHYSICAL ACTIVITY ON COGNITIVE DETERIORATION AND OXIDATIVE DAMAGE IN ELDERLY ADULTS WITH MELLITIS TYPE 2 DIABETES Gutiérrez-López L , Garcia Martell CA, García-Sánchez JR, Olivares-Corichi IM. SEPI-ESM-IPN.
28	EFFECTO DE LA ADMINISTRACIÓN DE ÁCIDO LINOLÉNICO (OMEGA 3) EN LA FUNCIÓN MITOCONDRIAL Y LA LIPOPEROXIDACIÓN EN HÍGADO DE RATAS DURANTE LA ETAPA DE LACTANCIA. Figueroa-García MC , Coate-Camacho R y Mejía-Zepeda R. UBIMED. FES Iztacala, UNAM
29	NADPH OXIDASE ACTIVITY IS REQUIRED FOR EPIBOLY CELL MIGRATION IN ZEBRAFISH EMBRYOS Méndez Cruz FJ , Mendieta Serrano MA, Schnabel Peraza D, Lomelí Buyoli H. and Salas Vidal E. Departamento de Genética del Desarrollo y Fisiología Molecular, UNAM
30	EFFECTS OF AGED GARLIC EXTRACT ON NPY mRNA AND MARKERS OF OXIDATIVE STRESS IN HYPOTHALAMUS AND BLOOD OF DIABETIC RATS Barragán Bonilla MI , Mendoza Bello JM, Olivares Corichi IM, Flores Alfaro E, Aguilera Hernández P, Espinoza Rojo M. Facultad de Ciencias Químico Biológicas. Universidad Autónoma de Guerrero
31	CARDIAC HORMETIC RESPONSE IN AGED RATS, EVALUATED IN A HUNTINGTON'S DISEASE MODEL Silva-Palacios A, Ostolga-Chavarría M, Buena-Chontal M, Garibay C, Hernández-Reséndiz S, Roldán FJ, González-Puertos VY , Luna-López A, Königsberg M, Zazueta C. Department of Cardiovascular Biomedicine, National Institute of Cardiology, Ignacio Chávez
32	TERT-BUTYLHYDROQUINONE (TBHQ) HORMETIC INDUCTION, AS A PROTECTIVE MECHANISM AGAINST FATTY ACIDS IN THE L6 RAT MYOBLAST CELL LINE Posadas Rodríguez Pedro , Barajas Gómez Bertha Alicia, González Puertos Viridiana Yazmín, Gómez-Quiroz Luis Enrique, Königsberg Fainstein Mina, Luna López Armando. Ciencias de la Salud, Universidad Autónoma Metropolitana iztapalala, CDMX
33	PROTECTIVE EFFECT OF KAFIRIN PEPTIDES AGAINST OXIDATIVE STRESS OF HUMAN SKIN Castro-Jácome TP , Alcántara-Quintana LE, Lugo-Cervantes EC, Ortiz-Basurto RI, Montalvo González E, Tovar-Pérez EG. Instituto Tecnológico de Tepic



VI MEETING OF THE FREE RADICALS AND OXIDATIVE STRESS
BRANCH OF THE MEXICAN BIOCHEMICAL SOCIETY

VII INTERNATIONAL WORKSHOP ON COMPARATIVE ASPECTS
OF OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS

May 23-25, 2017

Atlixco, Puebla



34	A NITRIC OXIDE SPIN TRAP SHORTENS SURVIVAL OF RATS WITH SEPTIC SHOCK, INDEPENDENT OF THE STEP OF SEPTIC SHOCK OF ADMINISTRATION Olvera Vazquez SJ , Ramírez Rosales D, Arellano Ahumada SN, Olvera Cano LI, Zamorano Ulloa R, Kross R, Villanueva López GC. Física, Instituto Politecnico Nacional. Escuela Superior de Física y Matemáticas, Instituto Politécnico Nacional, ESFM
35	CURCUMIN MODULATES MITOCHONDRIAL BIOENERGETIC ALTERATIONS AND REACTIVE OXYGEN SPECIES PRODUCTION IN CISPLATIN-INDUCED RENAL DAMAGE. Ortega-Domínguez B , Aparicio-Trejo OE, Tapia E, Molina-Jijón E, Pedraza-Chaverri J. Department of Biology, Faculty of Chemistry, UNAM
36	DETECTION OF NITRIC OXIDE THROUGH EPR IN BLOOD AND BRAINS OF TYPE II DIABETIC RATS Arellano Ahumada S N , Moreno Crespo CE, Olvera Vazquez SJ, Reyes Ortega Y, Ramírez Rosales D, Villanueva López C. Escuela Superior de Física y Matemáticas. IPN
37	EFFECTS ON CANCER CELL PROLIFERATION AND ON MITOCHONDRIAL DYNAMICS OF THE PHARMACOLOGICAL INHIBITION OF THE ESTROGEN RELATED RECEPTOR ALPHA (ERR α) Cortes-Hernandez P , Perez-Salvador V, Ramirez-Ventura R, Maycotte-González P, Anaya-Ruiz M, Dominguez-Ramirez L. CIBIOR, IMSS
38	DENITRASE ACTIVITY OF YEAST <i>D. hansenii</i> IN LIVER PROTEINS OF <i>M. musculus</i> WITH COLITIS Sarabia-Cruz L , Ledezma-Soto Y, Murguía-Romero M. and Calderón-Torres M. Unidad de Investigación en Biomedicina, Facultad de Estudios Superiores Iztacala, UNAM.
39	LOW INTENSITY TRAINING AS A PREVENTION OF SARCOPENIC OBESITY ASSOCIATED WITH AGING: A MODEL IN RAT Mena-Montes B , López-DíazGuerrero NE, González Vieira MR, Lazzarini Lechuga R, Rosas Carrasco O, López Teros MT, Morales Salazar A, Konigsberg Fastein M, Luna López A. Instituto Nacional de Geriatria, México.
40	SENESCENCE ASSOCIATED SECRETORY PHENOTYE ANALYSIS IN RAT PRIMARY SENESCENT ASTROCYTES López-Díazguerrero NE , Maciel Barón LA, González Puertos V, Luna López A, Pérez VI, Torres C, Konigsberg Fainstein M. División de Ciencias Biológicas y de la Salud. UAMI.
41	EFFECT OF THE ETHANOLIC EXTRACT OF AVOCADO POLYPHENOLS ON THE RETICULUM ENDOPLASMIC STRESS OF HEK-293T CELLS STIMULATED WITH HYDROGEN PEROXIDE Madrigal Ocampo LY , Aguirre Arzola V, Barbosa Sabanero G. Departamento de Ciencias Médicas, Universidad de Guanajuato Campus León
42	RESPONSE TO OXIDATIVE STRESS IN TWO SPECIES OF VAMPIRE BATS: DESMODUS ROTUNDUS AND DIPHYLLA ECAUDATA, AS A MODEL TO UNDERSTAND AGING. Toledo-Pérez R , Hernández-Arciga U, Luna-López A, León-Galván MA, Konigsberg Fainstein M. Laboratorio de Bioenergética y Envejecimiento Celular, Departamento de Ciencias Básicas y de la Salud. UAM-I
43	SPATIAL AND TEMPORAL EXPRESSION OF p22phox A NADPH OXIDASE ACCESORY SUBUNIT IN EARLY ZEBRAFISH DEVELOPMENT López Lomas AA , Méndez Cruz FJ, Schnabel Peraza D, Mendieta Serrano MA, Lomelí Buyoli H and Salas Vidal E. IBT. UNAM.
44	ACTIVITY ANTIOXIDANT OF HYDROALCOHOLIC EXTRACT OF CALENDULA OFFICINALIS DETERMINING THE PROPORTION OF ITS MAIN COMPOUNDS Hernández Rosas NA , Figueroa Arredondo P, Mora Escobedo R. ENCB-IPN



VI MEETING OF THE FREE RADICALS AND OXIDATIVE STRESS
BRANCH OF THE MEXICAN BIOCHEMICAL SOCIETY

VII INTERNATIONAL WORKSHOP ON COMPARATIVE ASPECTS
OF OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS

May 23-25, 2017

Atlixco, Puebla



45	HYDROGEN PEROXIDE OF HEPATIC AND HEART MITOCHONDRIA IN DIABETES MELLITUS TYPE TWO IN ABSENCE OF MACROPHAGE MIGRATION INHIBITORY FACTOR (MIF). Cabellos-Avelar T , Lira-León A, García-Reyes E, Juárez Avelar I, Pacheco Fernández T, Rodríguez-Sosa M. and Gutiérrez-Cirlos Madrid EB. Laboratorio 2 de Bioquímica y Bioenergética, Laboratorio 5 de Inmunidad Innata2 de la Unidad de Biomedicina y Carrera de Medicina. FES Iztacala, UNAM
46	THE ANTIOXIDANT SYSTEM AS THE KEY TOLERANCE MECHANISM DURING THE FIRST HOURS OF ALUMINUM TREATMENT IN FAGOPYRUM ESCULENTUM SEEDLINGS. Salazar-Chavarría AV . and Cruz-Ortega R. Instituto de Ecología, UNAM
47	OESTRADIOL REGULATES ANTIOXIDANT ENZYME ACTIVITY IN AN EXPERIMENTAL MODEL OF CEREBRAL MALARIA. Aguilar Castro J , Legorreta Herrera M. Laboratorio de Inmunología Molecular, Facultad de Estudios Superiores Zaragoza, UNAM.
48	ROLE OF ROS IN THE REGULATION OF NEUROINFLAMMATION INDUCED BY EXCITOTOXIC DAMAGE IN CEREBELLAR GRANULAR NEURONS Gutiérrez-Chávez LG , Hernández-Espinosa DR, Morán Andrade J. División de Neurociencias, Instituto de Fisiología Celular, UNAM
49	Accumulation of H ₂ O ₂ in a non-lethal line of Arabidopsis with low polyamines levels. Chávez-Martínez AI , Rodríguez-Hernández AA, Becerra-Flora A, Rodríguez-Kessler M and Jiménez-Bremont JF. División de Biología Molecular, Instituto Potosino de Investigación Científica y Tecnológica AC.
50	ROLE OF ROS PRODUCED BY MITOCHONDRIA AND NOX (NADPH-OXIDASE) IN APOPTOTIC DEATH OF CEREBELLAR GRANULE NEURONS. Cid Castro C . and Morán Andrade J. División de Neurociencias, Instituto de Fisiología Celular, Departamento de Neurodesarrollo y Fisiología. UNAM
51	Hst1-Sum1 COMPLEX IS INVOLVED IN OXIDATIVE STRESS AND FLUCONAZOLE RESISTANCE IN <i>C. glabrata</i> . Vázquez-Franco NC , Castaño I and De Las Peñas A. Instituto Potosino de Investigación Científica y Tecnológica, A.C.
52	DESIGN AND CONSTRUCTION OF PLASMIDS FOR OVEREXPRESSION AND SILENCING romo1 AND ITS EFFECT ON Huh-7 CELL LINE Zarazúa Diego , Simoni-Nieves Arturo, Souza Veronica, Bucio Leticia, Pérez Benjamín, Gutiérrez Ruiz Ma. Concepción, Gómez-Quiroz Luis Enrique, Miranda Roxana U Depto. de Ciencias de la Salud. Lab. de Fisiología Celular. UAM
53	EVALUATION OF THE ACTIVITY OF ACHIOTE EXTRACTS FROM YUCATAN ACCESSIONS ON THE <i>C. elegans</i> MODEL Gómez-Linton D , Pinzón-López L, Díaz de León-Sánchez F, Navarro-Ocaña A, Alavez-Espidío S, Pérez-Flores LJ. UAM-Iztapalapa
54	CHARACTERIZATION OF STRESS RESPONSE IN THE OPPORTUNISTIC PATHOGENIC FUNGUS <i>CANDIDA GLABRATA</i> WITH THE ABSENCE OF PEROXIREDOXINS TSA1 AND TSA2 Morales Rojano B , Gutiérrez Escobedo MG, De las Peñas Nava A. Instituto Potosino de Investigación Científica y Tecnológica
55	DISRUPTION OF RRM75 GENE IN <i>Ustilago maydis</i> SHOWS TEMPERATURE STRESS-SENSITIVE AND ACCUMULATES H ₂ O ₂ . Rodríguez Piña AL , Rodríguez Hernández AA, Juárez Montiel M, Becerra Flora A. and Jiménez Bremont JF. Instituto Potosino de Investigación Científica y Tecnológica AC (IPICYT).