

**XV INTERNATIONAL SCIENTIFIC
CONGRESS
CNIC 2010**

PROGRAM



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MENSAJE DE BIENVENIDA

Estimados delegados e invitados:

El Centro Nacional de Investigaciones Científicas, en ocasión del 45 Aniversario de su fundación, celebra el XV Congreso Científico Internacional CNIC 2010 en el Palacio de las Convenciones de Cuba.

Es para nosotros un honor el haber participado en la organización de este evento. En esta edición, el programa incluye conferencias plenarias, conferencias temáticas, presentaciones orales y en carteles, abarcando 8 áreas de investigación científica. También se presenta una Feria Exposición Asociada.

En los próximos días, colegas de 4 Continentes intercambiaremos experiencias. Nuestros 506 distinguidos expositores compartirán con nosotros sus experiencias más relevantes aplicadas fundamentalmente a la salud y el medio ambiente. Tenemos el agrado de haber recibido más de 600 contribuciones para presentaciones libres orales y en cartel.

Estamos seguros de que el calor caribeño que caracteriza a nuestro país los acogerá en un ambiente donde ustedes podrán pasar días de fructífero intercambio científico y de esparcimiento que, a su vez, contribuirá a aumentar y estrechar más nuestras relaciones de amistad y de colaboración.

¡Bienvenidos!

*Comité Organizador
Junio 28, 2010*



WELCOME

Dearest delegates and guests:

The National Center for Scientific Research celebrates 15th International Scientific Congress CNIC'2010 at the International Conference Center, on the occasion of the 45th anniversary of its founding.

It is an honor for us to have been involved in organizing this event. In this edition, the program includes plenary lectures, thematic conferences, oral presentations and posters, covering eight areas of scientific research. An Exhibit Fair will also take place.

Colleagues of 4 continents will share experiences in the coming days. Our 506 distinguished speakers will share their most relevant experiences mainly applied to health and to the environment. We are pleased to have received more than 600 contributions for posters and oral presentations.

We are confident that the Caribbean warmth which characterizes our country will host you in a nice environment in which you will spend days of fruitful scientific exchange and amusement, which, in turn, will contribute to increase and strengthen our ties of friendship and cooperation.

¡Welcome to Cuba!

*Organizing Committee
June 28th, 2010*



COMITÉ ORGANIZADOR / ORGANIZING COMMITTEE

President / Presidente

Dr. Carlos M. Gutiérrez Calzado

Executive Secretary / Secretaria Ejecutiva

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Social Activities Secretary / Secretaria de Actividades Sociales

Dra. Silvia Menéndez Cepero

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Lic Ibrahim Manuel Brull (ibrahim@havanatur.cu)

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Symposia Coordinators:

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Dra. Estrella Álvarez Varela

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M Sc. Irán Fernández Torres

MSc. Ricardo Arencibia Jorge

MSc. Nayrim Brizuela Guerra

Lic. Beatriz García Delgado

Ing. Alianna Formoso Mieres

Lic Dainelys Guadarrama Bello

Lic. Celso Pérez Bolaños

Lic. Alejandro Perera Pintado



**COMITÉ CIENTÍFICO INTERNACIONAL /
INTERNATIONAL SCIENTIFIC COMMITTEE**

International Federation of Oxygen Ozonotherapy (FIOOT)

Dra. Renate Viebahn

President of Dr. J. Hänsler GMBH Iffezheim and Member of the board of Directors of the Medical Society for the Use of Ozone in Prevention and Therapy, Germany

Lic Rolando Hernández Vigaud

Senior Program Officer, World Intellectual Property Organization (WIPO)

Dr. Trish Sheehan

Programme Officer, M & E and Training, International Network for the Availability of Scientific Publications (INASP)

Elsa Beatriz Acevedo Pineda

Science, Technology, Society and Innovation (CTSI), Colombia

Dr. Wilfredo Irrazabal Urruchi

Director Instituto de Ciencias Aplicadas Valle de Paraíba (ICAVP)



GENERAL INFORMATION

VENUE

The Havana International Conference Center is the venue of the event, holding all its working sessions. Among the general facilities, the Center has boutique, bookstore, general call and call to the parking lot.



OFFICE OF THE ORGANIZING COMMITTEE



The Organizing Committee and the Scientific Committee are located in the office 1105 located in the first floor, phone number: 209-6435. It is also possible to make phone calls using the following numbers: 202-6011 to 19, extension 1105.

INFORMATION DESK

The Information Desk # 1 will be available during the days of the event to attend information requests. It is located in the main lobby of the Center. Telephone numbers: 208-0450, 208-7558 and 202-6011 to 19, extensions 1210 and 1211.



TAXI SERVICE

The venue of the event counts with a taxi rental service, located in the ground floor, at the Delegate's Entrance.

MEDICAL CARE SERVICES

The Center provides medical care services during the days of the event. They can be found in the ground floor, office # 617, phone number: 208 6043. The dentistry service is available in the office # 619, phone number: 208-3775.



TOURIST DESK



Tourist desks are located in the different hotels where the participants of the event lodge in order make reservations to visit tourist centers and other places of interest

INTERNATIONAL CALL CENTER

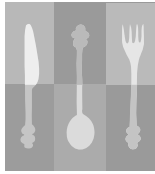
It is situated in the first floor, next to the cafeteria. It provides services such as: international call, as well as phone card, stamp, postcard and souvenirs sale.



The Business Center of the "Palco" Hotel offers fax services, Internet access, e-mail, printing of documents, photocopying, cell phone rental and sale of newspapers from 08:30 to 17:00 hours.



GASTRONOMIC SERVICES



"El Bucán" restaurant: it is located in the ground floor of the Havana International Conference Center, in front of the main entrance. It offers lunch service for participants from 12:00 to 14:30 hours.

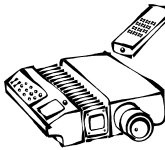
Bar-Cafeteria: it is situated in the first floor and also offers lunch service from 12:00 to 15:00 hours.

Snack bars: they are located in the first floor and offer coffee, tea, beverages and snacks.

AUDIOVISUAL AIDS

Conference rooms are equipped with:

- Data projector
- Computer



Presentations in CD, DVD, flash memories and other mass storage devices that come with the papers must be submitted in the Audiovisual Aids Office, located next to the Information Desk # 1, one day before the presentation and during the session hours. They will not be accepted in the Working Rooms.

POSTER AREA

Papers on posters must be in its assigned place before 09:00 each day.

Posters must be retired by authors at 14:00 each day.

INFORMACIÓN GENERAL

SEDE

La sede del evento es el Palacio de Convenciones de La Habana, en cuyas instalaciones se celebrarán todas las sesiones de trabajo. Entre las facilidades generales, el Palacio cuenta con boutique, librería, llamada general y llamada a parqueo.



OFICINA DEL COMITÉ ORGANIZADOR



El Comité Organizador y el Comité Científico radican en la oficina 1105 ubicada en la planta alta, con el teléfono 2096435. También podrá comunicarse por la pizarra 202-6011 al 19, extensión 1105.

OFICINA DE INFORMACIÓN

Durante los días del evento funcionará el Buró de Información No. 1 que se encuentra ubicado en el vestíbulo principal del Palacio de Convenciones. Teléfonos 208-0450, 208-7558 y 202-6011 al 19, extensiones 1210 y 1211, donde Ud. podrá solicitar cualquier información.



SERVICIO DE TAXIS

En la sede del evento funciona un servicio de alquiler de taxis ubicado en la planta baja, en la Entrada de Delegados.

POSTA MÉDICA

La posta médica brinda servicio durante todo el tiempo que sesione el evento. Está ubicada en la planta baja, local 617, teléfono: 208-6043 y los servicios estomatológicos en el local 619, teléfono: 208-3775.



Los Buroes de Turismo radican en los diferentes hoteles donde se alojan los participantes, los que pueden solicitar reservaciones para visitar centros turísticos y otros lugares de interés.

BUROES DE TURISMO

CENTRO DE COMUNICACIONES INTERNACIONALES

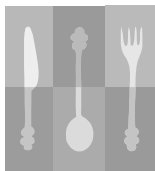
Se encuentra ubicado en la primera planta, próximo a la cafetería y brinda servicios de llamadas internacionales, venta de tarjetas telefónicas, sellos, postales y souvenirs.



El Centro de Negocios del Hotel Palco dispone de facilidades para el envío de fax, acceso a Internet, correo electrónico, impresión de documentos, fotocopias, alquiler de celulares y venta de periódicos en el horario de 08:30 - 17:00 horas.



SERVICIOS GASTRONÓMICOS



Restaurante “El Bucán”, situado en la planta baja, frente a la entrada principal, ofrece servicio de almuerzo a los participantes, en el horario de 12:00 a 14:30 horas.

Restaurante – Cafetería, ubicado en la primera planta, brinda también servicio de almuerzo entre las 12:00 y las 15:00 horas.

Snack Bars, ubicados en la primera planta, con ofertas de café, té, bebidas y alimentos ligeros.

MEDIOS AUDIOVISUALES

Las salas de conferencias disponen para las presentaciones de:

- Proyector de datos
- Computadora



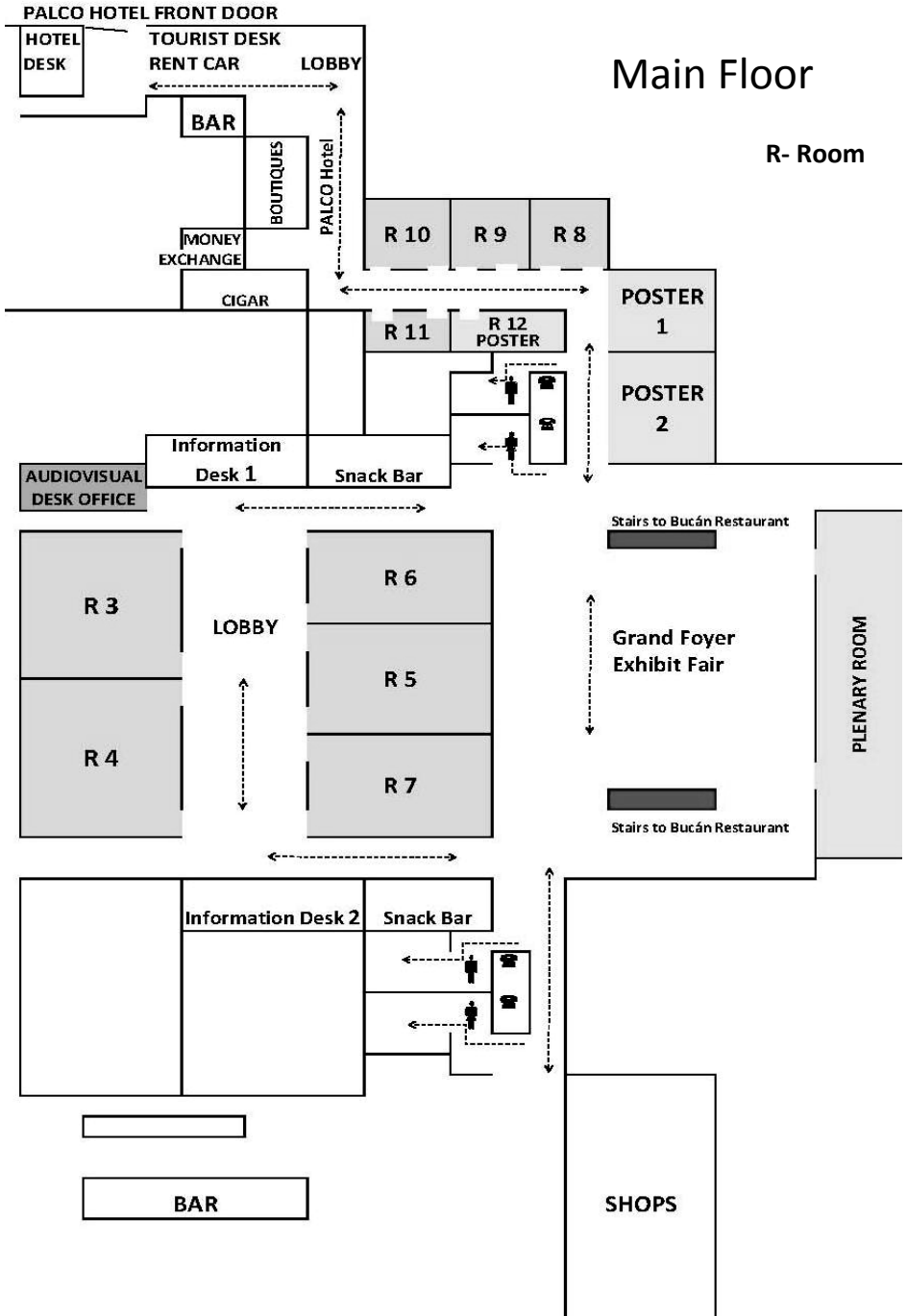
Las presentaciones en CD, DVD, memorias USB y otros medios de almacenamiento masivo, que acompañen los trabajos debe ser entregados por los propios ponentes en la Oficina de Recepción de Medios Audiovisuales, ubicada al lado del Buró de Información No. 1, un día antes de su presentación y en el horario en que se encuentre sesionando el evento. No se aceptarán en las Salas de Trabajo.

AREA DE POSTER

Los trabajos en posters deben estar en su tablilla asignada antes de las 09:00 cada día.

Los posters deben ser desmontados a las 14:00, cada día.





GENERAL PROGRAM / PROGRAMA GENERAL

Monday, June 28th	
Plenary Room	
08:30 - 14:00	Accreditation
14:00–14:10	Opening ceremony. Welcome
14:10–14:40	Plenary Keynote Dr. Carlos Gutiérrez Calzado, President, Organizing Committee
14:40-15:00	CNIC Documentary
15:00 - 15:45	Plenary Keynote – <i>“New Advances in Click Chemistry”</i> CONF01 Dr. K. Barry Sharpless, Nobel Prize in Chemistry, 2001
16:30	Fair Opening
18:00	Welcome Dinner

Oral P - Oral Presentations

Tuesday, June 29th			
Symposium	Room	Time	
Biomaterials and nanostructured materials			
Session: Polymeric biomaterials and composites	Oral P	5	08:30 – 11:00
Session: Development and characterization of metallic biomaterials for implants	Oral P	5	11:30 – 13:15
III Symposium on Infectious Diseases and Vaccines	Oral P	7	08:30 – 12:30
	Posters	Poster 2	12:30 – 14:00
II Symposium on Microbiological Diagnostic and Bacterial Resistance to Antimicrobial Agents	Oral P	9	08:30 – 12:30
	Posters	---	---
Symposium on Natural Products 2010 Symposium on Natural Products I	Oral P	8	08:30 – 12:00
	Posters	Poster 1	12:00 – 14:00
1 st International Workshop on Scientometric Studies related to the Biomedical Sciences	Oral P	11	09:45 – 14:00
	Posters	---	---
II International Symposium on Technological Prospective and Intelligence	Oral P	6	09:00 – 13:30
	Posters	12	13:30 – 14:30



Tuesday, June 29th			
Symposium	Room	Time	
6th International Symposium on Ozone Applications and V International Symposium on Environment (OMA)			
Session 1: Experimental Medicine - Basic Studies And Mechanisms Of Action	Oral P	3	08:30 – 11:00
Session 2: Medical Ozone Treatments - Orthopedia and Rheumatology	Oral P	3	11:30 – 14:10
Session 3: Medical Ozone Application	Posters	Poster 1 Poster 2	15:30 – 16:45
Session 9: Environmental Management	Oral P	4	09:05 – 11:00
Session 10: Environmental Management	Oral P	4	11:30 – 13:00
Session 11: Environmental Management	Posters	12	13:00 – 14:00

Wednesday, June 30th			
Symposium	Room	Time	
Biomaterials and nanostructured materials			
Session: Development and characterization of biomaterials for implants. Cell - material interaction.	Oral P	5	08:30 – 10:30
Session: Clinical and pre-clinical trial. Experience in development of biomaterials for implants.	Oral P	5	10:30 – 13:00
Session: Development of biomaterials for different applications.	Posters	Poster 2	13:00 – 14:00
III Symposium on Infectious Diseases and Vaccines	Oral P	7	08:30 – 14:00
	Posters	---	---
II Symposium on Microbiological Diagnostic and Bacterial Resistance to Antimicrobial Agents	Oral P	9	08:30 – 12:20
	Posters	Poster 1	12:30 – 14:00
Symposium on Natural Products 2010 Symposium on Natural Products II	Oral P	8	08:30 – 12:20
	Posters	12	12:20 – 14:00
1st International Workshop on Scientometric Studies related to the Biomedical Sciences	Oral P	11	09:00 – 11:00
	Posters	12	11:30 -13:30
II International Symposium on Technological Prospective and Intelligence	Oral P	6	9:00 – 14:10
	Posters	---	---



GENERAL PROGRAM

Wednesday, June 30th			
Symposium	Room	3	Time
6th International Symposium on Ozone Applications and V International Symposium on Environment (OMA)			
Session 4: Medical Ozone Treatments. Preclinical and Clinical Studies	Oral P	3	08:30 – 11:00
Session 5: Ozone Medical Applications	Oral P	3	11:30 – 14:10
Session 6: Ozonized Oils	Oral P	3	15:00 – 16:45
Session 12: Treatment of water, wastewater and solid wastes	Oral P	4	08:30 – 11:00
Session 13: Treatment of water, wastewater and solid wastes	Oral P	4	11:30 – 13:50
Session 14: Corrosion and Materials Protection	Posters	12	9:00 – 11:00

Thursday, July 1st	
08:30 – 13:00	Scientific Symposia
13:00 – 14:00	Closing ceremony (Plenary Room)
14:00	Farewell lunch

Thursday, July 1st			
Symposium	Room	3	Time
Biomaterials and nanostructured materials			
Session: Nanotechnology in medicine and nanostructured materials.	Oral P	5	08:30 – 11:00
Session: Research, development and evaluation of biomaterials for the controlled release of drug and biomolecules / Systems management and quality control in production and applications of biomaterials.	Oral P	5	11:30 - 12:15
Session: Nanostructured materials and Characterization of Biomaterials.	Posters	Poster 2	12:15 – 13:00
III Symposium on Infectious Diseases and Vaccines	Oral P	7	08:30 – 12:00
	Posters	---	---
Symposium on Natural Products 2010 Symposium on Natural Products III	Oral P	8	08:30 – 11:00
	Posters	Poster 1	11:30 – 13:00
New Trends on Nuclear Medicine	Posters	12	11:30 – 13:00



Thursday, July 1st			
Symposium		Room	Time
6th International Symposium on Ozone Applications and V International Symposium on Environment (OMA)			
Session 7: Ozone Therapy in Dentistry/ Other Ozone Medical Applications	Oral P	3	08:30 – 11:10
Session 8: Ozone Medical Applications	Oral P	3	11:30 – 13:00
Session 15: Renewable Energy	Oral P	4	08:30 – 10:15
Session 16: Ozone in the Food Industry Ozone Chemistry	Oral P	4	10:15 – 11:55
Session 17: Treatment of Water, Wastewater and Solid Wastes/ Renewable Energy/Ozone in Food Industry	Posters	12	12:00 – 13:00
Session 18: Corrosion and Material Protection	Oral P	11	8:30 – 11:45

NOTES



NOTES

Oral Presentations

Session: **Polimeric biomaterials and composites**Chairman: *Dr. Alessandro Gandini (Portugal)*Secretary: *Dr. Michael Grunze (Germany)**MSc. Nayrim Brizuela (Cuba)*

Room:

5

Time	Title	Speaker	Country
08:30-09:00	Polymers from renewable resources: macromolecular material for the future? MAT003	Dr. Alessandro Gandini	Portugal
09:00-09:30	Chemical and physical cues in marine fouling MAT009	Dr. Michael Grunze	Germany
09:30-09:45	Cellular frames by Electrospinning Technique. MAT049	Prof. Pablo Cajero	Mexico
09:45-10:00	Repair and reconstruction of common bile duct by PLA stent. MAT080	Dr. Xiaoyi Xu	China
10:00-10:30	High aspect ratio fatty acid functionalized strontium hydroxyapatite nanorod and PMMA bone cement filler MAT010	Dr. Weijia William Lu	China
10:30-10:45	Ce stabilized ZrO ₂ doped HA thin coatings synthesized by PLD onto porous Al ₂ O ₃ substrates: correlation between morphological characteristics and <i>in vitro</i> testing results MAT012	Dr. Carmen Ristoscu	Romania
10:45-11:00	Microstructural analysis of a composite biomaterial employing the Rietveld Method MAT035	MSc. Javier Aragón	Cuba
11:00-11:30	Coffee break		

Session: **Development and characterization of metallic biomaterials for implants**Chairman: *Dr. Ion N. Mihailescu (Romania)*Secretary: *Dr. Jesús González Ruiz (Cuba)*

Room:

5

Time	Title	Speaker	Country
11:30-12:00	Biomimetic coatings for a new generation of advanced implants MAT001	Dr. Ion N. Mihailescu	Romania
12:00-12:15	Manufacture of dense apatitic coatings on titanium from solutions with high content of calcium and phosphate ions. MAT045	Ing. Leonardo Martin	Argentina
12:15-12:30	Characterization of metallic biomaterials using the electrochemical impedance spectroscopy. MAT054	Dr. Ernesto Peláez	Cuba
12:30-12:45	Multifunctional nanostructured noble metal coatings for medical devices MAT021	MSc. Sara Svensson	Sweden
12:45-13:00	Apatitic coatings deposition from solutions with high content of calcium and phosphorus and inclusions of magnesium ions. MAT034	Dr. Jesús González	Cuba
13:00-13:15	Protein immobilization by MAPLE on HA nanolayers: a synergetic biointerface for medical implants MAT018	MSc. Felix Sima	Romania
14:00	Lunch		

Oral Presentations

Session: *Development and characterization of biomaterials for implants. Cell - material interaction.*

Room:

5

Chairman: *Dr. Mohammed Es-Souni (Germany)*

Secretary: *Dr. José A. Andrades Gómez (Spain)*

MSc. Haney Castro Fernández (Cuba)

Time	Title	Speaker	Country
08:30-09:00	Tailoring bactericidal properties and cell adhesion using TiO ₂ -Ag-Nanocomposites coatings MAT008	Dr. Mohammed Es-Souni	Germany
09:00-09:30	Organ Printing: Tissue Spheroids as building blocks MAT065	Dr. Vladimir Mironov	USA
09:30-10:00	Mesenchymal stem cells induced to form cartilage <i>in vivo</i> by a collagenous biomaterial for cell therapy of articular cartilage defects MAT015	Dr. José A. Andrades	Spain
10:00-10:30	Adsorption of high-density-lipoprotein (HDL) to polymeric surfaces improves blood-compatibility and enhances endothelialization: towards a synthetic small-diameter vascular prosthesis MAT013	Dr. Menno Knetsch	The Netherlands

Session: *Clinical and pre-clinical trial. Experience in development of biomaterials for implants.*

Room:

5

Chairman: *Dr. Ramón González Santos (Cuba)*

Secretary: *Dr. Juan Carlos Quintana Díaz (Cuba)*

Time	Title	Speaker	Country
10:30-11:00	Research, development and clinical applications of the Porous Hydroxyapatite Coralina® HAP-200 during 20 years in Cuba. Their scientific, technical and social impact. MAT043	Dr. Ramón González	Cuba
11:00-11.30	Coffee break		
11:30-12:00	15 years results of the Coralina® Hydroxyapatite HAP-200 as a bone implants in maxillofacial surgery. MAT064	Dr. Juan C. Quintana	Cuba
12:00-12:15	Aesthetic and functional result from inserting HAP-200 implants at the Ramón Pando Ferrer OCI surgical anophthlmo. Year 2009. MAT061	Dr. Ileana Agramonte	Cuba
12:15-12:30	Hydroxyapatite implants during the last decade at CIMEQ. 2000-2009. MAT062	Dr. Isis Montesino	Cuba
12:30-12:45	Surgical treatment of unicameral bone cyst with HAP-200. Case report. MAT078	Dr. Ana M. González	Cuba
12:45-13:00	Use of Coralina® hydroxyapatite with platelet enriched plasma for the treatment of bone defects of the Osteomioarticular system (OMAS) MAT073	Dr. Pedro P. Acén	Cuba
13:00-14:00	Poster Discussion		
14:00	Lunch		



Posters

Session: Development of biomaterials for different applications.

Chairman: MSc. Javier Aragón (Cuba)

Secretary: MSc. Haney Castro (Cuba)

Poster Discussion: 13:00-14:00

Room:

P 2

Poster No	Title	Author	Country
M001	Biocompatibility and cell proliferation on an implant bioalloy. MAT046	Dr. Cora Vasilescu	Romania
M002	Short-term behaviour of anodic films formed on surfaces of some bioalloys. MAT047	Dr. Ecaterina Vasilescu	Romania
M003	Influence of the alloying elements on the behaviour of a new titanium alloy in simulated human fluids. MAT048	Dr. Paula Drob	Romania
M004	Behaviour evaluation of some new implant biomaterials in physiological solutions. MAT079	Dr. Silviu-Iulian Drob	Romania
M005	Effect of steroid hormones and human chorionic gonadotropin in the transformation of human monocytes to macrophages. MAT044	Dr. María A. Díaz	Mexico
M006	Effect of polyvinylpyrrolidone used to prevent mycotoxins in broiler rations on performance and the histopathological examination of some organs MAT007	Prof. Dr. Tanay Bilal	Turkey
M007	Preliminary Results of applying an <i>ex vivo</i> model for preclinical evaluation of Biomaterials. MAT063	Dr. Itamys C. García	Cuba
M008	Computer optimization of a drug deliver mesoporous matrix. MAT016	Dr. Sandra Simonetti	Argentina
M009	Antibacterial activity of polymeric charge transfer complexes with iodine. MAT019	Prof. Mónica Márquez	Brazil
M010	NT-polyplex: a non viral biodegradable system for the gene delivery to neuroblastoma tumors. MAT020	Dr. Héctor A. Rubio	Mexico
M011	Tisuacryl use in tumors of the oral cavity. MAT023	Dr. Denia Morales	Cuba
M012	Tisuacryl use in the surgical treatment of rhinophyma. MAT022	Dr. Concepción Pereira	Cuba
M013	Tisuacryl use in maxillofacial traumatology. MAT037	Dr. Liliana Rodríguez	Cuba
M014	Synthesis of poly-(n-butyl cyanoacrylate) assisted by microwave. MAT076	Lic. Yaquelin Ramos	Cuba
M015	Hydrophilic Modification in Polihidroxiacanoates. MAT077	Beatriz Santos	Cuba



Poster No	Title	Author	Country
M016	Modulation of substrate stiffness and fibronectin activity through small variations in acrylic polymer chemistry. MAT039	MSc. Nayrim Brizuela	Cuba
M017	Influence of the incorporation of vinyl acetate in bone cements composed by PMMA/HAP-200. MAT040	MSc. Nayrim Brizuela	Cuba
M018	Effect of the hydroxyapatite silanization and the composition on acrylic composites properties. MAT075	MSc. Yaima Campos	Cuba
M019	Physico-chemical and termoanalytical characterization of Poliapatita® MAT031	MSc. Haney Castro	Cuba
M020	New acrylic bone cements modified with hydroxyapatite micro- and nanoparticles. Physico-chemical characterization and bioactivity study. MAT038	MSc. Mónica López	Cuba
M021	Use of HAP-200 Implant in anophthalmic cavities. Oculoplasty Service. Ramón Pando Ferrer OCI, 2009. MAT060	Dr. Gustavo Rodríguez	Cuba
M022	Determination of electrical parameters of natural hydroxyapatite. MAT082	Dr. María M. Méndez	Mexico
M023	Photoluminescence of hydroxyapatite coatings deposited by spray pyrolysis technique. MAT083	Dr. María M. Méndez	Mexico
M024	Development and validation of the method for quantification of calcium carbonate in Suplecal®. MAT027	MSc. Clára Bécquer	Cuba
M025	Validation of the method of quantifying calcium carbonate in the powder of Suplecal®. MAT050	MSc. Clára Bécquer	Cuba
M026	The microbiological quality control in the production of Suplecal®. MAT029	Lic. Dayanet Guillama	Cuba



Oral Presentations

Session: Nanotechnology in medicine and nanostructured materials.

Room:

5

Chairman: *Dr. Nadrian C. Seeman (USA)*

Secretary: *Dra. Sonia Trigueros (Reino Unido)*

Lic. Dainelys Guadarrama Bello (Cuba)

Time	Title	Speaker	Country
08:30-09:00	DNA: Not merely the secret of life MAT004	Dr. Nadrian C. Seeman	USA
09:00-09:30	DNA conformational dynamics and DNA molecular Motors: New nanomedicine research targets MAT002	Dr. Sonia Trigueros	UK
09:30-09:45	Plant- based bioscaffolds for bone graft purposes. MAT011	Dr. Mary Ellen Craig	USA
09:45-10:15	Starburst PAMAM dendrimers (-NH ₂ , -OH) G4 effects on E. coli Growth MAT042	Dr. Rolando Contreras	Cuba
10:15-10:30	Properties of Silica Nanocarriers Encapsulated Photosensitive Substance MAT006	Dr. Khairunisak Abdul Razak	Malaysia
10:30-10:45	Molecular recognition by means of gold nanoparticles modified with thiolated derivatives of ferrocene and tyrosine. MAT052	MSc. Darío González	Cuba
10:45-11:00	Submerged arc discharge system for multiwall carbon nanotubes synthesis. MAT069	Dr. Luis F. Desdin	Cuba
11:00-11:30	Coffee break		

Session: Research, development and evaluation of biomaterials for the controlled release of drug and biomolecules / Systems management and quality control in production and applications of biomaterials.

Room:

5

Chairman: *MSc. Mónica López Hernández (Cuba)*

Secretary: *MSc. Haney Castro Fernández (Cuba)*

Time	Title	Speaker	Country
11:30-11:45	Study <i>in vitro</i> of delivery drug from a compound biomaterial. MAT033	MSc. Javier Aragón	Cuba
11:45-12:00	Kinetics study of EPO releasing from Poliapatita® MAT032	MSc. Haney Castro	Cuba
12:00-12:15	Certification of Quality Management System for the research, development, evaluation, production and marketing of biomaterials for implants and byproducts of its production. MAT030	Lic. Dayanet Guillama	Cuba
12:15-13:00	Poster Discussion		
13:00	Closing ceremony		



Posters

Session: **Nanostructured materials and Characterization of Biomaterials.**

Room:
P 2

Chairman: *MSc. Nayrim Brizuela Guerra (Cuba)*

Secretary: *MSc. Clara Bécquer Romagosa (Cuba)*

Poster Discussion: 12:15-13:00

Poster No	Title	Author	Country
M027	Formation of Ta ₂ O ₅ Nanorods Complex in the presence of L-Lysine to through of Sol-Gel Method. MAT017	Dr. Humberto A. Monreal	Mexico
M028	Seed-mediated growth of gold nanorods for diagnostic applications. MAT005	Dr. Khairunisak Abdul Razak	Malaysia
M029	Photocatalytic activity under visible light of N-doped TiO ₂ thin films obtained by reactive rf-magnetron sputtering. MAT014	Eric Noé Hernández	Mexico
M030	Memory effects in AlPO ₄ -5 nanoporous material: Computational evidences. MAT084	Dr. Jorge Gulín	Cuba
M031	Nanosensors PEBBLEs. MAT036	Ing. José Seco	Cuba
M032	Synthesis of Li _{3-x} La _{2/3-x} TiO ₃ nanoparticles by soft chemistry method. MAT074	Lic. Teobaldo Mariño	Cuba
M033	Synthesis of carbonaceous nanostructure materials. MAT051	MSc. Edelio Danguillecourt	Cuba
M034	Gold surfaces capped with Ru (II) complexes using 2,2':6',2'' terpyridine and 4-aminotiophenol. MAT068	Lic. Linnavel Jiménez	Cuba
M035	Laccase immobilization over silver nanoparticles by means of molecular recognition processes. MAT053	Manuel Antuch	Cuba
M036	Catanionic aggregates as nanocarriers. MAT072	Prof. MSc. Miriam Ruiz	Cuba
M037	Nanosecurity system for safe practices with carbon nanoparticles. MAT059	Dania Soguero	Cuba
M038	Methods for the representative and express analysis of catalyst and metallic contaminant. MAT081	Lic. Marilelin Ramos	Cuba
M039	Preparation by gamma radiation of poly 2-hydroxyethyl methacrylate -co-acrylamide hydrogels doped with nanoclay. MAT070	Ing. Manuel Rapado	Cuba
M040	Obtaining and study of nanostructured materials that contain antidepressants drugs. MAT071	Dr. Juan E. Tacoronte	Cuba



Poster No	Title	Author	Country
M041	PMMA cements modified with micro and nanoparticles of HA: mechanical properties and bioactivity. MAT028	Lic. Dainelys Guadarrama	Cuba
M042	Characteristics of commercially pure titanium under different treatments of surface activation. MAT024	Lic. Adrian Paz	Cuba
M043	Characterization by infrared spectroscopy of TiO ₂ thin layers formed on titanium substrates. MAT025	Lic. Adrian Paz	Cuba
M044	Manufacture of hydroxiapatite nanoparticles using solutions with high content of calcium and phosphate ions. MAT026	Lic. Adrian Paz	Cuba
M045	Application of scanning electron microscopy on Poliapatita® characterization. MAT041	Dr. Oscar Ledea	Cuba
M046	Cathodic deposition of a TiO ₂ thin film in stainless steel. MAT055	Dr. Ernesto Peláez	Cuba
M047	Characterization of Ti implant surface modified by micro arc oxidation technique. MAT056	Dr. Ernesto Peláez	Cuba
M048	EIS study of titanium implant modified by anodic oxidation. MAT057	Dr. Ernesto Peláez	Cuba
M049	Preparation by anodic oxidation and characterization of nanostructured TiO ₂ powder. MAT058	Dr. Ernesto Peláez	Cuba



Oral Presentations

Session: Bacteria, Fungi, Vaccines

Chairman: Dr. Rafael Fando (Cuba)

Secretary: MSc. Sandra Rodríguez (Cuba)

Room:

7

Time	Title	Speaker	Country
08:30-09:00	Synthetic peptides and its versatile application as the active ingredient of biopharmaceuticals. INF005	Prof. Fernando Albericio	Spain
09:00 - 09:30	Vaccine adjuvants.	Dr. Guisepe del Giudice	Italy
09:30 - 09:45	The role of crossing and recombination in dissemination of drug resistance in <i>Plasmodium falciparum</i> : field observation. INF001	Dr. Hamza A. Babiker	Oman
09:45 - 10:00	Small-scale production of <i>Mycobacterium tuberculosis</i> Ag85A by <i>Streptomyces lividans</i> . INF018	Dr. Elsa Pimienta	Cuba
10:00 - 10:15	Passive administration of secretory IgA from human colostrum induces protection against <i>Mycobacterium tuberculosis</i> in a murine model of progressive pulmonary infection. INF021	Dr. Nadine Alvarez	Cuba
10:15 - 10:30	Serotypes and virulence genes of <i>Escherichia coli</i> strains isolated from children with and without diarrhea. INF004	Dr. Carlos A. Eslava	Mexico
10:30 - 10:45	<i>Bordetella pertussis</i> derived proteoliposomes as acellular vaccine candidate. Preliminary antigenic and biological characterization. INF028	Dr. Sonsire Fernández	Cuba
10:45 - 11:00	Proteoliposomes derived from <i>Shigella spp</i> induced systemic and mucosal response. INF029	Dr. Sonsire Fernández	Cuba
11:00-11.30	Coffee break		
11:30 - 12:00	Detection of ovine <i>Theileria</i> species in district Lahore, Pakistan. INF002	Dr. Aneela Zameer Durrani	Pakistan
12:00 - 12:30	A five-years retrospective study of dermatophytosis and dermatomycoses at the Mycology Referral Laboratory of EHNRI, Addis Ababa, Ethiopia. INF003	Dr. Negga Asamene	Ethiopia
12:30 – 14:00	Poster Discussion		
14:00	Lunch		



Posters

Session: *Infectious Diseases and Vaccines*

Chairman: BSc Celso Pérez (Cuba)

Secretary: BSc Karen Marrero (Cuba)

Room:

P 2

Time: 12:30 – 14:00

Poster No	Title	Speaker	Country
1001	The <i>Helicobacter pylori</i> infection in the couples of a Cuban dyspeptic patients group. INF035	BSc. Elaine Rodriguez	Cuba
1002	Evaluation in animal models of live attenuated strains of <i>Vibrio cholerae</i> O139. INF008	BSc. Talena Ledón	Cuba
1003	Characterization of pVVGJΦ the single-stranded DNA binding protein of the phage VGJΦ of <i>Vibrio cholerae</i> . INF006	MSc.. Alina Falero	Cuba
1004	DNA binding proteins of the filamentous phages CTXΦ and VGJΦ of <i>Vibrio cholerae</i> . INF007	MSc.. Alina Falero	Cuba
1005	Genes of <i>Vibrio cholerae</i> involved in copper tolerance. INF038	BSc. Karen Marrero	Cuba
1006	Episomal and chromosomal expression of a genetically attenuated Pertussis toxin variant as an acellular Cuban vaccine component against <i>B.pertussis</i> . INF040	BSC. Lourdes Proenza	Cuba
1007	Literature review of the use of collagen for diabetic foot. INF054	Dr. María J. G. Casas	Mexico
1008	Risk factors for the HPV cervical infection in HIV+ patients being attended at CAPASITS of Puebla's General Hospital, Mexico. INF014	Dr. José F. Martínez	Mexico
1009	Evaluation of protease production of <i>Staphylococcus aureus</i> clinical isolates using skim milk and casein agar. INF032	Dr. Juan R. Galindo	Mexico
1010	<i>Candida albicans</i> isolated from human fungaemia induce apoptosis in experimental endocarditis. INF031	Dr. Miguel Domínguez	Mexico
1011	Effects of an antihumectant and an antioxidant additives, on hygroscopic characteristics and on viability of two freeze-dried formulations of <i>Vibrio cholerae</i> vaccine. INF043	Dr. Tomás Moreira	Cuba
1012	Implementation of immunochemistry methods for the detection of Human Papillomavirus type 16 in cervical samples. INF027	BSc. Griselda Torres.	Cuba
1013	Comparison of two different molecular methods for the detection of Human Papillomavirus type 16 in formalin fixed-paraffin embedded cervical samples. INF030	BSc. Yudira Soto	Cuba
1014	Study of the humoral immune response and cross reactivity against <i>Mycobacterium tuberculosis</i> of liposomes containing total lipids of <i>Mycobacterium smegmatis</i> . INF051	Dr. Reinier Borrero	Cuba



Poster No	Title	Speaker	Country
I015	Evaluation of a multi-antigenic ELISA for serodiagnosis of active pulmonary tuberculosis. INF053	BSc. Mónica Sarzo	Cuba
I016	Evaluation of immunogenicity and cross-reactivity against <i>M. tuberculosis</i> of a proteoliposome derived from <i>Mycobacterium bovis</i> BCG. INF052	Dr. Yanelly Tirado	Cuba
I017	Effect of the genetic construction on the mutants physiology of <i>Escherichia coli</i> K12. INF041	Dr. Dilia C. Pérez	Cuba
I018	Risk management design and implementation of bio-safety measures in the Laboratory of Virology at the Centre for Genetic Engineering and Biotechnology. INF042	Dr. Dilia C. Pérez	Cuba
I019	Induction of lymphocyte apoptosis as a mechanism of calicivirus-induced haemorrhagic disease in adult rabbits. INF047	Dr. António Costa-e-Silva	Portugal
I020	Natural protection against calicivirus infection in young rabbits: dissecting the B and T lymphocyte response to the virus. INF048	Dr. Maria M Silva	Portugal
I021	Bystander apoptosis of liver cells in adult rabbits dying from fulminant hepatitis caused by calicivirus infection. INF049	Dr. Paula G. Ferreira	Portugal
I022	Mitochondrial diversity of Anatolian domestic goats. INF050	Dr. Ahmet Mengi	Turkey
I023	IgY-technology, the immunization of laying hen and the extraction of antibodies from egg yolk by polyethylene glycol (PEG) precipitation. INF055	Dr. Esteban J. Gutiérrez	Cuba



Oral Presentations

Session: **Bacteria and Parasites**

Chairman: *Dr. Boris Luis Rodríguez (Cuba)*

Secretary: *BSc. Talena Ledón (Cuba)*

Room:

7

Time	Title	Speaker	Country
08:30-09:00	Development of a Live Attenuated Cuban Cholera Vaccine: Current Status. INF009	Dr. Rafael Fando	Cuba
09:15-09:45	<i>Helicobacter pylori</i> infection:an update of the problem. INF034	Dr. Boris L. Rodríguez	Cuba
09:45-10:00	Prevalence of virulence factors in Cuban <i>Helicobacter pylori</i> isolates. INF033	Dr. Boris L. Rodríguez	Cuba
10:00-10:15	Cloning and heterologous expression of a fragment of the CagA protein of <i>Helicobacter pylori</i> . INF039	BSc. Lidice González	Cuba
10:15-10:30	Mutations that confer metronidazol and tetracycline resistance in <i>Helicobacter pylori</i> , detection in Cuban isolates. INF037	BSc. Orlando Reyes	Cuba
10:30-10:45	Study of several presentation strategies for a peptide mimetic of the capsular polysaccharide from <i>Neisseria meningitidis</i> serogroup B. INF026	Dr.Hilda E. Garay	Cuba
10:45-11:00	Sequence optimization of a peptide mimetic of the capsular polysaccharide from serogroup B <i>Neisseria meningitidis</i> using peptide libraries obtained by pin technology. INF025	Dr. Osvaldo Reyes	Cuba
11:00-11:30	Coffee break		
11:30-12:00	How new electron microscopic techniques are providing important information on the structure of pathogenic protozoa and their interaction with host cells. INF012	Dr. Wanderley de Souza	Brazil
12:00-12:30	<i>Trichomonas vaginalis</i> kills and eats – evidence for phagocytic activity as a cytopathic effect. INF013	Dr. Marlene Benchimol	Brazil
12:30-12:45	Molecular diagnosis and serogroup determination of <i>Neisseria meningitidis</i> from cerebrospinal fluid. INF046	Dr.Grether Barreras	Cuba
12:45-13:00	Ototoxic effects of aminoglycoside antibiotics. Strategies for their prevention. INF036	MSc. Sandra Rodríguez	Cuba
13:00-13:15	Search of micronucleus in murine cells parasited with <i>Taenia crassiceps</i> cysticerci. INF015	Dr. Iván Vivar	Mexico
13:15-13:30	Preliminary results of genetic improvement and application of the vaccine s3pvac-phage against cysticercosis in pigs York/Landrace and Creole exposed to natural challenge. INF011	Dr. Mirna Huerta-Orea	Mexico
13:30-13:45	Evaluation of cellular immune response induced by vaccination with s3pvac-papaya against cysticercosis in pigs. INF016	Dr. Olivia Fuentes-Ríos	Mexico
13:45 -14:00	Thiadiazine derivatives as new potential drugs against parasitic diseases. INF024	Dr. Julieta Coro Bermello	Cuba
14:00	Lunch		



Oral Presentations

Session: **Bacteria, Viruses, Vaccines, Miscellaneous**

Room:

Chairman: *Dr. Boris Luis Rodríguez (Cuba)***7**Secretary: *BSc. Celso Pérez (Cuba)*

Time	Title	Speaker	Country
08:30 - 09:00	Clinical and Epidemiological characteristics for the infection of the virus of Influenza AH1N1 in the General Hospital San Cristóbal de Las Casas. INF045	Dr. María C. De la Torre.	Mexico
09:15 - 09:45	Bacterial Resistance: urgency of a multilateral and comprehensive approach to training health personnel. INF044	Dr. Arturo Quizhpe	Ecuador
9:45 - 10:00	Toxicity in rats of the 1E10 vaccine after repeated subcutaneous injection. INF019	Dr. Yana González.	Cuba
10:00 - 10:15	How is the monoclonal antibodies kinetic affected by changes of their physical parameters? INF017	Dr. Camilo Delgado	Colombia
10:15 - 10:30	Effect of dose and neutralization of gastric pH on intragastric immunization with ACo2. INF022	Dr. Reinaldo Acevedo	Cuba
10:30 - 10:45	Adjuvant and vaccine potential of nano and microparticles derived from <i>Vibrio cholerae</i> O1 extracts. INF023	Dr. Reinaldo Acevedo	Cuba
10:45 - 11:00	Results of a six months toxicity study in rats of the vaccine CIMAvax-EGF. INF020	Dr. Axel Mancebo	Cuba
11:00-11.30	Coffee break		
11:30 - 12:00	High throughput selection of high-producing mammalian cell line using a rapid automated clonal selection method. INF010	Dr. Suba Dharshanan	Malaysia
13:00	Closing Ceremony		
14:00	Farewell Lunch		



Oral Presentations

Session: Bacterial Resistance

Chairman: *Dr. Arturo Quizhpe (Ecuador)*

Secretary: *Dra. Estrella Alvarez Varela (Cuba)*

Room:



Time	Title	Speaker	Country
8:30 - 9:00	Bacterial Resistance: Urgency of a multilateral and comprehensive approach to training health personnel. DIA020	Dr. Arturo Quizhpe	Ecuador
9:00 -9:50	Antimicrobial resistance as a worldwide problem. Ecology of antibiotic resistance genes. DIA016	Dra. María Espino	Cuba
9:50 – 10:10	Bacterial pathogens implicated in causing urinary tract infection (UTI) and their antimicrobial susceptibility pattern in Ethiopia. DIA002	Theodros Getachew	Ethiopia
10:10 – 10:30	Prevalence of bacterial otitis infection and antimicrobial susceptibility pattern. DIA003	Surafel Fentaw	Ethiopia
10:30 – 10:50	In vitro evaluation of antimicrobial activities of <i>Albizia gummifera</i> and <i>Croton macrostachyus</i> against clinical isolates of <i>Neisseria gonorrhoeae</i> . DIA004	Mesfin Tefera	Ethiopia
11:00-11.30	Coffee break		
11:30 - 11:50	Frequency of bacterial flora in urinary tract infections during pregnancy, in 15-40 years-old patients that attended gynecological consultation from november, 2009 to february, 2010 at Orinoco Polyclinic.San Felix, Bolivar State. Venezuela. DIA015	Berkis Lezama	Venezuela
11:50 - 12:10	Microbiological Study Of Water Wells In Azumiatla A Community Of Puebla, Mexico During The Months Of January To December 2008. DIA017	Mirna A. Huerta	Mexico
12:10 - 12:30	Epidemiology of sepsis in the General Hospital San Cristóbal de Las Casas. DIA022	Moisés Ocampo	Mexico
14:00	Lunch		



Oral Presentations

Session: Microbiological Diagnostic

Chairman: Dr. Max Dow (Ireland)

Secretary: Dr. Rolando Contreras Alarcón (Cuba)

Room:

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Time	Title	Speaker	Country
8:30 - 9:20	The Structural Diversity of Cell-Cell signals in Bacteria. DIA007	Dr. Max Dow	Ireland
9:20 - 10:10	Current trends and future perspectives in microbiological culture techniques DIA006	Dr. Claudio Rodríguez	Cuba
10:10- 11:00	Etiological diagnostic of sepsis – Clinical value of the new tools. Roche Diagnostics, Central America & The Caribbean	Moisés A. Delgado	Panama
11:00-11.30	Coffee break		
11:30 -12:20	Cell-Cell Communication System (Quorum Sensing), possible application in Fast Bacterial Detection. DIA005	Dr. Rolando Contreras	Cuba
12:30 – 14:00	Posters discussion		
14:00	Lunch		



Posters

Chairman: *Dra. María Espino Hernández (Cuba)*

Secretary: *MSc. Gilberto Tillán Ochoa (Cuba)*

Room:

P I

Time: 12:30 – 14:00

Poster No	Title	Author	Country
D001	Multisensor system for diagnosing the quality of dairy products. DIA008	Elier Riverón	Cuba
D002	Performing an interpretative reading of the antibiogram in the Diramic system. DIA009	Estrella Álvarez	Cuba
D003	Detection of expanded-spectrum-beta lactamases by DIRAMIC system: comparison with the double-disk synergy test and E-test. DIA010	Estrella Álvarez	Cuba
D004	Behavior of the productions of different diagnostic tools used in DIRAMIC system in the period 2000-2009. DIA011	Idania Hurtado	Cuba
D005	Trend analysis of the productions of the culture media used in the DIRAMIC system in order to establish control limits. DIA012	Idania Hurtado	Cuba
D006	Quality control in DIRAMIC equipment manufacturing. DIA013	José Seco	Cuba
D007	Design of the Quality Management System for the Microbiological Diagnostic Division of the National Center for Scientific Research. DIA014	Yeniseis Odelin	Cuba
D008	New version of the DIRALEC system for the evaluation of the bacteriological quality of the milk. DIA018	Gilberto Tillán	Cuba
D009	DIRAMIC-10 system using the interface card USB-1208FS. DIA019	Gilberto Tillán	Cuba
D010	Detection of urinary tract infection using Diramic system and conventional method. DIA021	Oliver Balza	Venezuela
D011	Electrochemical impedance spectroscopy: an effective tool for rapid microbiologic diagnosis. DIA023	Nardo Ramírez	Cuba
D012	Optimisation of a formulation of the Mueller-Hinton Agar. DIA024	Raisa Zhurbenko	Cuba
D013	Evaluation of Mueller-Hinton agar medium with a new casein acid hydrolysate. DIA025	Diana Rosa Viera	Cuba
D014	Patterns of drug-resistance of <i>Staphylococcus aureus</i> isolated of pus samples at the Pediatric Hospital from Cerro. DIA026	Niria Castro	Cuba
D015	Microbiological surveillance in intensive and intermediate care units, CIMEQ 2000 – 2009. DIA027	Margot Martínez	Cuba
D016	Meticillin-resistant <i>Staphylococcus aureus</i> : 10 years of surveillance and hospital control. DIA028	Margot Martínez	Cuba



Poster No	Title	Author	Country
D017	Beta-hemolytic Streptococcus serological grouping in the Provincial Pediatric Hospital, Las Tunas, 2008. DIA029	Osneida Molina	Cuba
D018	Clinical microbiological behavior of acute diarrhea disease with blood. DIA030	Belkis Rodríguez	Cuba
D019	Antimicrobial resistance of microorganisms isolated from hospitalized pregnant women with urinary tract infection. DIA031	Inés Loida Nuño	Cuba
D020	Antimicrobial resistance in <i>Salmonella spp</i> and <i>Escherichia coli</i> strains isolated from foods. Cuba 2004-2007. DIA032	María Espino	Cuba
D021	Antimicrobial agent's susceptibility by DIRAMIC method of <i>Staphylococcus spp.</i> strains isolated from conjunctival swabs at the Cuban Ophthalmology Institute "Ramón Pando Ferrer". DIA033	Andrés Noya	Cuba
D022	Identification of methicillin-resistant Staphylococci using cefoxitin disc and antimicrobial resistance patterns associated. DIA034	Ana Bertha Alvarez	Cuba
D023	Detection of Methicillin-Resistant Staphylococcus aureus using Cefoxitin disc. DIA035	Rafael Nodarse	Cuba
D024	<i>In vitro</i> characterization of the antimicrobial resistant <i>Escherichia coli</i> in "Héroes del Baire" Hospital; 2005-2007. DIA036	Delfín Álvarez	Cuba
D025	Resistance patterns of coagulase-negative staphylococcus isolated from the neonatal service at the Ciego de Avila Hospital. DIA037	Oxana M. Cabrera	Cuba
D026	Evaluation of a new chromogenic method for rapid detection of <i>Salmonella spp.</i> DIA038	Meylín Ortega	Cuba
D027	New chromogenic medium and method for the rapid identification of <i>Enterococci</i> in water samples by the Membrane Filtration Technique. DIA039	Marilyn Díaz	Cuba
D028	Resistance to antibiotics: fact that limits the direct application of microorganisms in oil ecosystems. DIA040	Ramón A. Batista	Cuba
D029	<i>HSV</i> encephalitis diagnosis by real time PCR: analysis of three cases. DIA041	Arturo Plascencia	Mexico
D030	Identification of <i>Histoplasma capsulatum</i> from cultures extraction by PCR. DIA042	Carlos Fernández	Cuba
D031	Comparative study of measure visual and spectrophotometer lectures in a " <i>in vitro</i> " antifungal susceptibility testing in <i>Candida</i> isolates from HIV-infected patients. DIA044	Luis Enrique Jerez	Cuba
D032	Resistance of Enterobacteriaceae in a Health Care for the Passenger, "Cira Garcia Central Clinic", 2005-2008. DIA045	Caridad Almanza	Cuba

Posters Discussion: 12:30 – 14:00



Oral Presentations

Session I: *Symposium of Natural Products I*Chairman: *Dra. Daysi Carbajal, PhD. Cuba*Secretary: *Prof. Nayive Pino, PhD. Colombia*

Room:



Time	Title	Speaker	Country
08:30-08:50	Natural Products as therapeutic goods: Challenges and regulatory matters.	S. Mendoza	Cuba
08:50-09:10	Dietary supplements for losing weight: the potential danger of toxigenic algae and other adulterants. Presentation of RISAPRET (CYTED program). PNA002	P. Arenas	Argentina
09:10-09:25	Phytoaromatherapy as Supplement to Health System Improvement. PNA052	M. Avello	Chile
09:25-09:40	Pharmacopoeia guajira: the use of medicinal xerophytic plants by Wayuu ethnicity. PNA058	J. Rosado	Colombia
09:40-09:50	Fiscal and countable requirements for the creation of a marketing company of medicinal plants. PNA112	I. Ceja	Mexico
09:50-10:05	Discussion		
10:05-10:15	Fructans from maguey: prebiotic effect. PNA057	J. Rendón	Mexico
10:15-10:25	Fructans from maguey: metabolic effect. PNA059	J. Rendón	Mexico
10:25-10:35	Antisecretory activity of methanol and chloroform extracts from aerial parts and flowers of <i>Phytolacca icosandra</i> L. PNA060	J. Santos	Mexico
10:35-10:45	The therapeutic use of <i>Aloe vera</i> in pressure ulcers (pu). PNA066	F. Hernández	Spain
10:45-11:00	Discussion		
11:00-11.30	Coffee break		
11:30-11:50	Biocide activity of <i>Ageratina jojobepecana</i> B.L.Turner PNA012	R Del Río	Mexico
11:50-12:00	Discussion		
12:00-14:00	Posters Presentation		
14:00	Lunch		



Posters

Session: *Symposium of Natural Products I*Chairman: *Dra. Daysi Carbajal, PhD. Cuba*Secretary: *Prof. Marcia Avello Lorca, PhD. Chile*

Room:

P 1

Time: 12:00 – 14:00

Poster No	Title	Speaker	Country
P001	The Iberoamerican Network of Local Knowledge and Practices on the Environment Vegetal (RISAPRET) CYTED program and their contributions to knowledge of natural products. PNA044	P. Arenas	Argentina
P002	Antimicrobial effect of the aqueous extract and the chloroform fraction from the bark of <i>Bocconia arborea</i> S. wats. PNA055	B. Berdeja	Mexico
P003	Antimicrobial activity of some Mexican medicinal plants extracts. PNA068	L. Hernández	Mexico
P004	Antibacterial activity and chemical constituents of essential oils extracted from plants in the Colombian Pacific. PNA069	N. Pino	Colombia
P005	Evaluation of the insecticidal activity from <i>Tithonia diversifolia</i> and <i>Clibadium sylvestre</i> , in the control of <i>Atta cephalotes</i> L. PNA048	E. Cuesta	Colombia
P006	Larvicidal evaluation of some Mexican medicinal plants against <i>Aedes aegypti</i> . PNA077	R. Ruiz	Mexico
P007	Composting process acceleration of post-harvest product (cherry) coffee with the implementation of native microorganisms. PNA114	M. Vásquez	Colombia
P008	Canaries Endemism of topical application in the care of wounds. PNA111	B. Rodríguez	Spain
P009	Resources phitotherapeutics in the raquialgias mechanical-inflamatorias. PNA108	J. F. Jiménez	Spain
P010	Hairy Roots Cultures of Broccoli Transformed With the Human Papilloma Virus L1 Protein. PNA051	J. M. Jiménez	Mexico
P011	Creation of web pages for diffusion of the information found with regard to phytochemistry studies of medicinal plants. PNA113	I. Ceja	Mexico
P012	Preparation and innovation of cosmetic use creams with products from beekeeping. PNA047	R Solórzano	Costa Rica
P013	Differential gene expression in human breast cancer cells in the presence of Withanolide D. PNA073	L. Escobar	Colombia

12:00-14:00 Poster Discussion



Oral Presentations

Session: *Symposium of Natural Products II*Chairman: *Dra. Lourdes Arruzazabala, PhD, Cuba*Secretary: *Prof. Blanca Berdeja, PhD, Mexico*

Room:



Time	Title	Speaker	Country
08:30-09:00	Effects of D-004 plus finasteride on testosterone induced prostate hyperplasia in rats. PNA031	V. Molina	Cuba
	Effects of D-004, a lipid extract from royal palm (<i>Roystonea regia</i>) fruits, on phenylephrine-induced contractions of isolated rat prostate. PNA041	V. Molina	Cuba
	Effects of D-004, a lipid extract from Cuban royal palm fruit, on the phenylephrine-induced atypical prostate hyperplasia in rats. PNA021	V. Molina	Cuba
	Effects of D-004, Tamsulosin and their combined use on urodynamic changes induced with phenylephrine in rats. PNA030	V. Molina	Cuba
09:00-09:10	In vitro effect of D-004, a lipid extract of the fruit of the Cuban royal palm, on steroid 5 α -reductase activity and androgenic receptors of prostatic tissue. PNA034	Y. Pérez	Cuba
09:10-09:25	Discussion		
09:25-09:35	Study of the long-term carcinogenicity potential of D-003, a mixture of high molecular weight sugarcane wax acids, in mice. PNA028	M. Noa	Cuba
09:35-09:45	Long-term carcinogenicity of D-003, a mixture of high molecular weight acids from sugarcane wax, in Sprague Dawley rats: a 24 months study. PNA037	M. Noa	Cuba
09:45-09:55	Effect of D-003 (10 mg/day) on the bone mineral density in postmenopausal women: a randomized, double-blinded study. PNA027	S. Mendoza	Cuba
09:55-10:05	Discussion		
10:05-10:15	Anamu (<i>Petiveria alliacea</i> L.), an immunostimulant medicinal plant. PNA098	M. Lemus	Cuba
10:15-10:25	Methyl jasmonate and salicylic acid induce dibenzyl trisulfide in cell suspension cultures of <i>Petiveria alliacea</i> L. (anamu). PNA072	M Arias	Colombia
10:25-10:35	Antidiarrhoeal activity from ethanol extract of <i>Aloysia triphylla</i> . PNA062	R. Ulloa	Mexico
10:35-10:45	Antidiarrhoeal and analgesic properties from ethanol extract of <i>Lopezia racemosa</i> . PNA061	M. Santos	Mexico
10:45-11:00	Discussion		
11:00-11.30	Coffee break		

Time	Title	Speaker	Country
11:30-11:40	Cloning of the human insulin cDNA gene in hairy roots of <i>Brassica oleracea</i> var. <i>italica</i> (Broccoli). PNA053	B. García	Mexico
11:40-11:50	Expression of the Human Growth Hormone in Hairy Roots Cultures of <i>Brassica oleracea</i> var. <i>italica</i> . PNA050	E. García	Mexico
11:50-12:00	Cytotoxic effect of <i>Pinus caribaea</i> and <i>Halimeda monile</i> aqueous extracts in human cells. PNA093	M. Vernhes	Cuba
12:00-12:10	Toxicity evaluation of Bryothamnion triquetrum aqueous extract in human cells. PNA104	M. González	Cuba
12:10-12:20	Discussion		
12:20-14:00	Posters Presentation		
14:00	Lunch		

Posters

Session: *Symposium of Natural Products II*

Chairman: *Dra. Lourdes Arruzazabala, PhD, Cuba*

Secretary: *Dra. Patricia Arenas, PhD, Argentina*

Room:

12

Time: 12:20 – 14:00

Poster No	Title	Author	Country
P014	Effects of policosanol on patients with ischemic stroke and history of previous transient ischemic attacks: a long-term follow-up. PNA005	J. Sánchez	Cuba
P015	Effects of policosanol added to Omega-3 fatty acids (FA) therapy on lipid profile of patients with Type II hypercholesterolemia. PNA035	J. Illnait	Cuba
P016	Effects of the combined therapy fish oil Omega-3 fatty acids plus policosanol on the lipid profile of hypercholesterolemic patients: a 24 weeks study. PNA036	J. Fernández	Cuba
P017	Preventive effect of D-002, a mixture of long-chain alcohols from beeswax, on the liver damage induced with C ₁₄ C in rats. PNA029	M. Noa	Cuba
P018	In Vitro Genotoxic Potential of D-002 on the Blood Lymphocytes Chromosomal Aberration Test. PNA039	R. Gámez	Cuba
P019	Effects of single oral and topical administration of D-002 on xylene-induced ear edema in mice. PNA040	Y. Ravelo	Cuba
P020	Effects of D-002 on lipid peroxidation in middle-aged and older subjects. PNA015	S. Mendoza	Cuba
P021	Comparison of the antioxidant effects of D-002 and grape seed extract (GSE) on plasma oxidative variables in healthy subjects. PNA016	R. Mas	Cuba

Poster No	Title	Author	Country
P022	Effects of Abexol® on gastrointestinal symptoms in middle-aged and older subjects. PNA024	L. Fernández	Cuba
P023	Effects of Abexol in middle-aged and older subjects: an open follow-up. PNA025	L. Fernández	Cuba
P024	Genotoxic evaluation of D-003 on the chromosomal aberrations in CHO cells cultures. PNA038	R. Gámez	Cuba
P025	Effects of D-003, a mixture of high-molecular weight aliphatic acids from sugarcane wax, and omega-3 fatty acids on bones of ovariectomized rats. PNA042	M. Valle	Cuba
P026	D-003 does not possess oestrogenic potencial in-vivo: findings of the uterotrophic assay. PNA043	M. Valle	Cuba
P027	Effects of D-003 on the physical exercise on static bicycle test. PNA 026	J. Illnait	Cuba
P028	Comparison of the antioxidant effects of lipid extracts from <i>Roystonea regia</i> (D-004), and <i>Serenoa repens</i> (Saw palmetto lipid extract) on plasma of healthy men. PNA018	J. Fernández	Cuba
P029	D-004, a lipid extract from royal palm fruit, exhibits antidepressant effects in the forced swim test and the tail suspension test in mice. PNA020	D. Carbajal	Cuba
P030	Oral subchronic toxicity of a lipid extract from <i>Roystonea regia</i> fruits in mice. PNA023	A. Gutiérrez	Cuba
P031	Assessment the potential genotoxicity of D-004 for inducing chromosomal aberrations in mice bone marrow cells. PNA022	A. Gutiérrez	Cuba
P032	Antioxidant effects of D-004 in normal rats and in rats with testosterone induced prostatic hyperplasia. PNA032	A. Oyarzábal	Cuba
P033	Effects of D-004, a lipid extract from Cuban royal palm fruit, on the cotton pellet granulome in rats and the activity of lipoxigenase from polymorphonuclear leucocytes. PNA033	Y. Pérez	Cuba
P034	Antioxidant effects of D-004, a lipid extract from <i>Roystonea regia</i> fruits, on plasma of healthy men. PNA019	R. Mas	Cuba
P035	Antioxidant activity determination of tropical fruits. PNA046	L. Hernández	Mexico
P036	Plasma Antioxidant Capacity of two Chilean Native Species. PNA054	M. Avello	Chile
P037	Antioxidant activity and total phenol content of ethanol extracts of medicinal plants from Colombia. PNA074	K. Rivas	Colombia
P038	Evaluation of the antioxidant capacity of 14 vegetables samples using 2,2-difenil-1-picrilhidracilo. PNA049	A Gutiérrez	Colombia
P039	Anti-Oxidant activity of 80% methanol extracts from <i>Clerodendron myricoides</i> , <i>Satureja punctata</i> , <i>Urtica dioica</i> , <i>Ajuga remota</i> and <i>Gnidia stenophylla</i> . PNA003	I. Nasser	Ethiopia
P040	Lipid profile and histopathological examination of liver in female rats fed high-lipid diet and addition of <i>Garcinia cambogia</i> extract. PNA001	A. Altiner	Turkey
P041	Antitoxins of multiple uses for opihidism treatment. PNA070	O. Acosta	Argentina

Poster No	Title	Author	Country
P042	α -mannosidosis acquired in guinea pig by <i>Ipomoea carnea</i> . PNA075	O. Acosta	Argentina
P043	Bioassay-directed isolation of hypotensive alkaloids from <i>Holarrhena pubescens</i> . PNA107	K. Aftab	Kingdom of Saudi Arabia
P044	Determination of the protective activity antiulcer of <i>Mimosa albidia</i> against indometacina in female rat. PNA056	B. Berdeja	Mexico
P045	Antimicrobial activity from plants used in traditional medicine in Colca Valley, Arequipa, Peru. PNA080	N. Rojas	Cuba
P046	Ethnobotany, antimicrobial activity and essential oil composition of <i>Piper aduncum</i> subsp. <i>ossanum</i> (Platanillo de Cuba). PNA081	O. Abreu	Cuba
P047	Antimicrobial activity of the extracts and compounds from <i>Morinda royoc</i> L. (<i>Rubiaceae</i>). PNA086	J. Borroto	Cuba
P048	Biological activities of gossypitrin isolated from the flowers of <i>Talipariti elatum</i> S.W. PNA089	J. González	Cuba
P049	Evaluation of the diuretic activity of six plants used by the cuban population. PNA082	M Pérez	Cuba
P050	Study of sedative effect of cycloartanol triterpene obtained from <i>Pedilanthus tithymaloides</i> (L.) Poit (leaves). PNA088	H. Cabrera	Cuba
P051	Diuretic activity preclinical evaluation of a decoction of <i>Costus pictus</i> D. Don. PNA092	E. Monteagudo	Cuba
P052	Effect of dry trofin plus iron ferrous salt formulation on iron deficiency anemia in rats. PNA103	Y. García	Cuba
P053	Evaluation in vitro of the radioprotector effect of the aqueous extract of <i>Mangifera indica</i> L (Vimang). PNA083	L. Rosario	Cuba
P054	Protective effect of <i>Bidens pilosa</i> L. extract in hepatotoxicity induced by paracetamol in rats. PNA091	E. Monteagudo	Cuba
P055	Antiproliferative and cytotoxic effects of defensive secretions and a synthetic analogue, from millipede <i>Rhinocricus duvernoyi</i> . PNA102	N. Mora	Cuba
P056	Evaluation of fluid extract from <i>Pluchea carolinensis</i> (jacq.) G. Don. by the toxicity class method in rats. PNA105	M. Arteaga	Cuba
P057	Effect of the aqueous extract of <i>Mangifera indica</i> L. (Vimang), front gamma radiations using the SOS Chromotest assay. PNA087	D. Arencibia	Cuba
P058	Toxicological evaluations of plant derived products with potential medical applications: challenges at analytical level and regulatory environment. PNA100	D. Geada	Cuba
P058-A	Study of the ajonjoli oil (<i>Sesamum Indicum</i> L.) from Cuba. The antioxidant and hypolipemiant capacity in mice. Determination of the DL-50 and the concentration of Omega 3-6-9. The ORAC test PNA117	J. García	Cuba

12:20-14:00 Poster Discussion

Oral Presentations

Session: *Symposium of Natural Products III*Chairman: *Dra. Rosa Elva del Río, PhD, Mexico*Secretary: *Dr. Victor González, PhD, Cuba*

Room:



Time	Title	Speaker	Country
08:30-08:45	Screening phytochemistry studies of <i>Dioscorea bartlettii</i> Morton allow identifying its secondary metabolites. PNA067	I. Ceja	Mexico
08:45-08:55	Aqueous two-phase systems: An efficient, environmentally safe and economically viable method for purification of flavonoid quercetin. PNA045	L. Ramos	Brazil
08:55-09:05	Bovine serum albumin partitioning in aqueous two-phase systems. PNA106	L. Ramos	Brazil
09:05-09:20	Py-GC/MS study of violet extract obtained from leaves of <i>Justicia spicigera</i> Schlt. PNA076	J. Reyes	Mexico
09:20-09:35	Euphorbia species as a source of new promising bioactive compounds. PNA063	Z. Hajdu	Hungary
09:35-9:50	Enantioselective synthesis of β -carboline and isoquinoline derivatives via the asymmetric transfer hydrogenation. PNA004	Z. Czarnocki	Poland
9:50-10:05	Preliminary phytochemical studies and characterization of vegetable material obtained from <i>Roystonea regia</i> ripe fruits. PNA006	E. Rodríguez	Cuba
10:05-10:20	Determination of sterols in D-004 active ingredient by GC-MS. PNA014	D. Marrero	Cuba
10:20-10:35	Chemical compatibility of <i>Rhizophora mangle</i> L. dry extract and different pharmaceutical excipients by thermal analysis. PNA097	T. Pérez	Cuba
10:35-11:00	Benefits of high resolution mass spectrometer for natural product research in the identification of the formula and chemical structures. PNA115	D. Daniel	Brazil
11:00-11.30	Coffee break		
11:30-13:00	Posters Presentation		
13:00-14:00	Closing Ceremony		
14:00-15:00	Lunch		

Posters

Session: *Symposium of Natural Products III*Chairman: *Dra. Rosa Elva del Rio, PhD, Mexico*Secretary: *Dr. Victor González, PhD, Cuba*

Room:

P 1

Time: 11:30 - 13:00

Poster No	Title	Author	Country
P059	Analytical method for determination of residual n-hexane and acetone in D-002. PNA010	V. González	Cuba
P060	Long-term stability study of industrial batches of D003 active ingredient. PNA009	R. Sierra	Cuba
P061	Preliminary characterization and stability study of the oil from the whole fruit of <i>Roystonea regia</i> . PNA007	E. Rodríguez	Cuba
P062	Revalidation of the methodology for determining fatty acids that compose the D004 active ingredient using polar capillary column. PNA008	R. Sierra	Cuba
P063	Accelerated and shelf live stability studies of D-004 active ingredient in different containers. PNA011	E. Rodríguez	Cuba
P064	Determination of residual n-hexane in D-004 active ingredient by GC-MS. PNA013	D. Marrero	Cuba
P065	Application of atomic absorption spectrometry to the determination of heavy metals in natural product. PNA078	B. Luna	Cuba
P066	Procedure for the annual product review in the Plants of Natural Products of the National Center for Scientific Research. PNA079	J. Mosquera	Cuba
P067	Isolation and purification of mangiferina obtained from bark of <i>Mangifera indica</i> L. PNA096	J. Martínez	Cuba
P068	Plant biotechnology to produce pharmaceuticals. PNA065	G. Calva	Mexico
P069	Evaluation of quality of seasonal green propolis with aid of spectrophotometry and gas chromatography. PNA064	L. Ramos	Brazil
P070	Functional properties of by-products of the processing of common citrus fruits. PNA071	G. Kroyer	Austria
P071	Citronellol Radiolysis: Implications for Radiation Resistance of <i>Eucalyptus citriodora</i> Hook Essential oil. PNA085	D. Rodríguez	Cuba
P072	Bioactive vegetal extracts and developed countries: Total characterization feasibility from an agricultural and biomedical perspective. PNA099	D. Geada	Cuba
P073	Theoretical modeling of IAA auxin-amino acids interactions by MMH procedures. PNA084	K. Melchor	Cuba

Poster No	Title	Author	Country
P074	Synthesis of precursors for preparing the core of the <i>Garsubellin A</i> and <i>Hyperibone I</i> , two natural products from Guttiferae family. PNA090	B. Tolón	Cuba
P075	Intermolecular associations of vegetal hormon Auxin 2,6-dibromophenol with amino acid residues by MMH procedures. PNA095	Y. Novo	Cuba
P076	Essential oils of cuban plants in control of insects pests in archives, libraries and museums. PNA101	A. López	Cuba
P077	Rice husk ash for the production of silicon dioxide. PNA109	E. Fernández	Cuba
P078	Application of MMH-2 to the study of flavonoid – cocrystal systems. PNA116	R. Miranda	Cuba
P079	Technological evaluation of powder plant <i>Parthenium hysterophorus L</i> with pharmaceutical propose. PNA110	Y. Saucedo	Cuba
P080	Quantitative determination of G-1 in an emulsifiable concentrate through capillary gas chromatography. PNA094	M. Alba	Cuba

11:30-13:00 Poster Discussion

Oral Presentations

Session: Introduction to the Workshop

Chairman: MSc Ricardo Arencibia Jorge (Cuba)

Room:

11

Time	Title	Speaker	Country
9:45 - 9:50	Introduction to the Workshop Program	Ricardo Arencibia	Cuba
9:50 - 10:50	Opening Presentation <i>Analysis of scientific domains using Scopus-based scientometric tools: experiences of the SClmago Research Group.</i>	Zaida Chinchilla	Spain
10:50 - 11:00	Discussion		
11:00-11.30	Coffee break		

Session I: Bibliometric Research and Health Sciences:

Realities and Perspectives

Chairman: PhD. Grant Lewison (United Kingdom)

Secretary: MSc. Rosa Lidia Vega Almeida (Cuba)

Room:

11

Time	Title	Speaker	Country
11:30-11:50	The Dynamics of the Cuban scientific research on Biomedicine	María V. Guzmán	Cuba
11:50-12:10	Ibero-American scientific production on Public Health 2000-2008	Grisel Zacca	Cuba
12:10-12:30	Spanish stem cell research (1997-2007). Bibliometric analysis and main lines of research through KeyWords Plus	María A. Zulueta	Spain
12:30-12:50	Development and calibration of a filter for the selection of research papers in physical rehabilitation	Grant Lewison	United Kingdom
12:50-13:00	Discussion and Conclusions of the Session		
14:00	Lunch		

Round Table: The Programme for the Enhancement of Research Information (PERii) in Latin America: bibliometric approach and preliminary findings.

Moderator: PhD. Concepción Díaz Mayans (Cuba)

Time	Title	Speakers	Country
13:00 - 14:00	The Programme for the Enhancement of Research Information (PERii) in Latin America: bibliometric approach and preliminary findings.	Concepción Díaz Trish Sheehan Ricardo Arencibia	Cuba UK Cuba
14:00	Lunch		



Oral Presentations

Session II: *Bibliometric Indicators and Research Evaluation*

Chairman: *PhD. Zaida Chinchilla Rodríguez (Spain)*

Secretary: *MSc. Juan A. Araujo(Cuba)*

Room:

11

Time	Title	Speaker	Country
9:00 - 9:45	Opening Lecture <i>Seven measures of research quality – application to surgical oncology</i>	Grant Lewison	United Kingdom
9:45 - 10:15	Impact of competitive funding on research output of Russian researchers: a bibliometric analysis by the Web of Science, 2008 (Lecture)	Vladimir Ivanov	Russia
10:15 - 10:45	Bibliometric indicators and their impact on Russian university rankings (Lecture)	Valentina Markusova	Russia
10:45 - 11:00	Discussion and Conclusions of the Session		
11:00-11.30	Coffee break		
11:30 – 13:30	Poster Discussion		



Posters

Session III: Exploring Biomedical Domains

Chairman: *PhD. María Victoria Guzmán Sánchez (Cuba)*

Secretary: *MSc. Ricardo Arencibia Jorge (Cuba)*

Room:

12

Time: 11:30 – 13:30

Poster No	Title	Author	Country
C001	Bibliometric assessment of the scientific institutions from the west of Havana City using Scopus	Blanca R. Hung	Cuba
C002	Cuban scientific publications on Medical research: A gender-focused bibliometric study in main stream (Web of Science, 2000-2007)	Yohannis Martí	Cuba
C003	Studies on Dengue: analysis of the World, regional and national scientific production	Juan A. Araujo	Cuba
C004	Vector control and Dengue: a view from bibliometrics	Marisol Guerra	Cuba
C005	Scientific production of the Cuban Health Institutes in Scopus 2003-2007	Rosa L. Vega	Cuba
C006	Scientific performance of Cuban researchers in the Biomedical Area	Yaniris Rodríguez	Cuba
C007	Scientific performance of the Cuban Neurosciences Center	Nelsa Echevarría	Cuba
C008	Bibliometrics of Bibliometrics in PubMed	Andrea Collymore	Cuba
C009	Determination of market and I+D+I trends on pulsed-field gel electrophoresis through a business intelligence product	Gema Cossío	Cuba
C010	Bibliometric study on the influence of violent videogames in children and adolescent using Scopus	Kenny Batista	Cuba
C011	Tobacco damage according to International agencies and its consideration by health sciences: Medical literature appreciation	Débora Geada	Cuba
13:30-14:00	Special Announcements and Closing Words of the Workshop. (Room 11)		
14:00	Lunch		



Oral Presentations

**Session 1: Experimental Medicine - Basic Studies and
Mechanisms of Action.**

Room:

3

Chairman: *Dr. Renate Viebahn (Germany)*

Secretary: *Dr. Silvia Menéndez (Cuba)*

Time	Title	Speaker	Country
08:30-09:00	Inauguration of the 6 th International Symposium on Ozone Applications and V International Symposium on Environment	Dr. Lidia Asela Fernández and Dr. Silvia Menéndez	Cuba
09:05-09:30	Ozone as a medical drug. Prerequisites for safety. Guidelines and treatment strategies OMA008	Dr. Renate Viebahn	Germany
09:30-09:55	Cuban contributions to ozone therapy development OMA215	Dr. Silvia Menéndez	Cuba
09:55-10:20	Ozone oxidative preconditioning is mediated by A ₁ adenosine receptors in a rat model of liver ischemia/reperfusion OMA254	Dr. Olga Sonia León	Cuba
10:20-10:45	Ozone oxidative post-conditioning in acute renal failure OMA139	Dr. José Luis Calunga	Cuba
10:45-11:00	Discussion		
11:00-11.30	Coffee break		

**Session 2: Medical Ozone Treatments - Orthopedia and
Rheumatology**

Room:

3

Chairman: *Dr. Francisco Martín (España)*

Secretary: *Dr. José Luis Calunga (Cuba)*

Time	Title	Speaker	Country
11.30-11:50	New ideas in the treatment of herniated discs OMA033	Dr. Francisco Martín	Spain
11:50-12.05	Ozone therapy in the spinal disc herniation OMA017	Dr. Danilo E. Ruíz	Ecuador
12:05-12:20	Application of ozone therapy in herniated disk OMA117	Dr. Alberto Balbín	Cuba
12:20-12.35	Neck-back ozone discolysis. Modification of the EUNI technique OMA048	Dr. Benjamín Arriaga	Mexico
12:35-12.50	Prospective clinical study comparing ozone therapy versus open surgery for the treatment of lumbar herniation disc. Preliminary results OMA082	Dr. Francisco Galván	Spain
12:50-13:05	Applications of ozone therapy in muscular and tendon pathology OMA081	Dr. Francisco Galván	Spain



Time	Title	Speaker	Country
13.05–13.20	Ozone therapy. An experience in primary knee artrosis OMA034	Dr. Juan R. Milanés	Argentina
13:20–13:35	Immunological aspect of ozone in rheumatoid arthritis OMA046	Dr. Ziad Fahmy	Germany
13:35–13:50	Ozone analgesic effect OMA260	Dr. Rolando Wong	Cuba
13:50–14:10	Discussion		
14:10 – 15:00	Lunch		
15:30-16:00	Poster Session – Medical Ozone Application ROOM P1 P2		
16:00 – 16:45	Poster Discussion – ROOM 3		

Posters

Session 3: Medical Ozone Application

Chairman: *Dr. Silvia Menéndez (Cuba)*

Secretary: *Dr. Zullyt Zamora (Cuba)*

Room:

P 1

P 2

Time: 15:30–16:45

Poster No	Title	Speaker	Country
O051	Ozone therapy. Its applications in pediatric diseases in a five year period 2005 – 2009 OMA095	Dr. Antia T. Duany	Cuba
O052	Rectal ozone therapy. Application in the surgical wound infection OMA145	Dr. Antia T. Duany	Cuba
O053	Educational Software about Ozone therapy OMA255	Dr. Pedro P. Vejerano	Cuba
O054	Application of ozone therapy in the lymphatic pathology OMA240	Dr. Esther L. Torres	Cuba
O055	Ozone therapy in phlebostasic ulcers OMA237	Dr. Daysy Santos	Cuba
O056	Ozone therapy applied to sepsis of upper limb OMA205	Nurs. Orfelina Ramos	Cuba
O057	Ozone therapy in Genodermatosis OMA133	BSc. Ana L. Carballo	Cuba
O058	Application of ozone therapy in the vestibulocochlear syndrome OMA233	Dr. Alejandro del Cerro	Cuba
O059	Ozone therapy in the treatment of Cerebral Paralysis OMA188	Dr. Agne Díaz	Cuba
O060	Ozone therapy in malnutrition children due to intestinal parasitism by <i>Giardia lamblia</i> OMA137	Dr. Ivonne Méndez	Cuba
O061	Ozone therapy efficacy in the treatment of corneal ulcer OMA265	Dr. Yolanda Mapolón	Cuba



Poster No	Title	Speaker	Country
O062	Use of OLEOZON collyrium in the herpetic keratitis treatment OMA262	Dr. Sol Inés Parapar	Cuba
O063	Intratonsillar ozone therapy as alternative treatment of chronic tonsillitis OMA249	Dr. Lázaro Silva	Cuba
O064	Oxygen-ozone therapy as an adjuvant in the treatment of chronic osteomyelitis OMA239	Dr. Julio C. Escarpenter	Cuba
O065	Ozone therapy efficacy in hip osteonecrosis OMA241	MSC. Eulalia Recio	Cuba
O066	Ozone therapy efficacy in some signs and symptoms of osteoporosis in elder adults OMA245	MSC. Iraida Cuesta	Cuba
O067	Effect of combined ozone therapy in the quality of life of patients with osteoarthritis OMA259	Dr. Rodolfo León	Cuba
O068	Ozone puncture in the treatment of knee arthrosis OMA264	Dr. Vivian Borroto	Cuba
O069	Ozone and diet therapy in recurrent vulvovaginal candida albicans infections OMA251	Dr. Luisa Batilde	Cuba
O070	Nursery staff's role in ozone-therapy applied to relieve pain OMA256	BSc. Raúl Lastre	Cuba
O071	Ozone therapy treatment in patients with cervical herniated disk OMA236	MSC. Danay Cuesta	Cuba
O072	Clinical evaluation of ozone treatment in herniated disk OMA258	Dr. René A. Borrego	Cuba
O073	Combined treatment using ozone and CO ₂ laser in septic wounds of cancer patients OMA257	Dr. René A. Borrego	Cuba
O074	Use of ozonized sunflower oil in cervical intraepithelial neoplasia type I CIN-I OMA238	Dr. Denisse Mariño	Cuba
O075	Proctitis by radiation exposure treated with ozone therapy. A new alternative for its treatment OMA155	Dr. Alberto Quintana	Cuba
O076	Ozone Therapy Effects upon Inflammation Markers in a Model of Experimental Toxic Glomerulonephritis OMA138	BSc. Thaysiú Ramos	Cuba
O077	Protective effects of ozone oxidative postconditioning in a model of alcoholism in Lewis rats OMA252	MSC. María Teresa Díaz	Cuba
O078	Effect of ozone/oxygen mixture combined with levofloxacin in a model of peritoneal sepsis induced in rats OMA211	Dr. Ricardo González	Cuba
O079	Effect of ozone/oxygen mixture in the cellular redox state in a subchronic toxicity study in rabbits OMA217	BSc. Yaima Martínez	Cuba
O080	Effect of ozone oxidative preconditioning on bleeding time and venous thrombosis in a septic shock model in rats OMA218	BSc. Yaima Martínez	Cuba
O081	Assay of ozone acute toxicity applied by autohemotherapy to rats OMA226	Dr. Zullyt Zamora	Cuba
O082	Effect of ozone oxidative preconditioning in intestinal injury induced by ischemia/reperfusion in Rats OMA227	Dr. Zullyt Zamora	Cuba

Poster No	Title	Speaker	Country
0083	Effect of ozone/oxygen mixture on systemic oxidative stress and organic damage OMA184	BSc.Dailen Guanche	Cuba
0084	Antioxidant effect of an ozonized oil formulation on damaged-inflammatory rat skin OMA219	BSc.Yaima Sánchez	Cuba
0085	Effectiveness of ozonized theobrOMAOil vaginal suppositories in the treatment of Candidiasis in rats OMA214	BSc.Rosa I. Meneau	Cuba
0086	Topical OLEOZON® effect in fragile and breakable nails treatment OMA235	Dr. Arturo Díaz	Cuba
0087	Evaluation of irritant power of bactericidal soap BELLOIL® OMA243	MSc. Gastón García	Cuba
0088	Analysis of microelement concentrations in tissues of tumor-inoculated animals on being treated with ozone and doxorubicin OMA014	Dr. Claudia Kontorschikova	Russia
0089	Method of determining the plasmatic membrane state OMA010	Dr. Bogdan Chornobay	Ukraine
0090	Ozone therapy use in gynecological patients with hysteryomyOMAI in the postsurgical period OMA083	Dr. Elena U. Kontorshchikova	Russia
0091	The markers of condition vessel endothelium of patients with burning trauma before and after ozone therapy OMA069	Dr. Irina E.Okrut	Russia
0092	Hormone-producing function of fetal-placental complex during ozone therapy and hyperbaric oxygenation in patients with chronic placental insufficiency OMA023	Dr. Hesus M. Klemente	Russia
0093	The effect of ozone therapy and hyperbaric oxygenation on placenta morphology in patients with chronic placental insufficiency OMA024	Dr. Hesus M. Klemente	Russia
0094	The influence of ozone therapy and hyperbaric oxygenation on blood coagulation in pregnant patients with chronic placental insufficiency OMA021	Dr. Hesus M. Klemente	Russia
0095	Correction of immune status in pregnant patients with chronic placental insufficiency under the influence of ozone therapy and hyperbaric oxygenation OMA022	Dr. Hesus M. Klemente	Russia
0096	Use of ozonized sunflower oil in the treatment of lamellar keratectomy in rabbits OMA056	Dr. Duvaldo Eurides	Brazil
0097	The use of ozonated major autohemotherapy in canine ehrlichiosis' treatment OMA051	Dr. Cesar A. Garcia	Brazil
0098	Hematological profile of ovines and goatlikes undergoing rectal insufflation and topic use of ozone in the caseous lymphadenitis treatment OMA052	Dr. Cesar A. Garcia	Brazil
0099	Skin healing in one equine by therapy with ozone OMA053	Dr. Cesar A. Garcia	Brazil



Poster No	Title	Speaker	Country
O100	Rectal insufflation and topic use of ozone in the treatment of caseous lymphadenitis OMA054	Dr. Cesar A. Garcia	Brazil
O101	Action of ozone therapy in endodontics practice OMA009	Dr. Carlos Goes Nogales	Brazil
O102	In vivo comparative studies of the effects of different dental bleaching methods OMA143	Stud. Sandy Guano	Ecuador
O103	Ozone experimental medicine and medical treatment; skin care and multi-resistant <i>Staphylococcus Aureus</i> OMA091	Dr. Julian Holmes	South Africa
O104	The bubble pump – innovation in the manufacture of ozonated fluids and gas exchange OMA092	Dr. Julian Holmes	South Africa
O105	New model ozone generating equipment for therapeutic use- OZOMED-PLUS OMA156	Eng. César Mora	Cuba
O106	The documentation and its importance in Insurance Quality System and its reach within the Management System OMA207	Tec. Pastor Dennis Nicolás	Cuba
O107	New techniques of local ozone use for rapid diagnostics and early surgical treatment of severe burns OMA222	Dr. S.P. Peretyagin	Russia
O108	Ozone therapy possibilities in burned patient management OMA079	Dr. S. Peretyagin	Russia
O109	Correction of microcirculatory and hemorheology disturbances in neurocirculatory dystonia with syndrome of venous hypertension OMA206	Dr. S. Peretyagin	Russia
O110	New method of treatment for inflammatory diseases of lower female genital organs OMA038	Dr. R. Chandra-D'Mello	Russia
O111	The efficiency of ozone therapy in a complex treatment of tubal peritoneal sterility OMA042	Dr. R. Chandra-D'Mello	Russia
O159	Dose-depend ozonation effect on sodium chloride solutions crystallogenic properties OMA267	Dr. S. Peretyagin	Russia
O160	Ozone oxidative postconditioning protects renal proximal tubules against ischemia-reperfusion injury. Experiments with rats OMA268	Dr. Lucía González	Cuba

Oral Presentations

**Session 4: Medical Ozone Treatments. Preclinical and
Clinical Studies**

Room:

3

Chairman: *Dr. Siegfried Schulz (Germany)*

Secretary: *Dr. Frank Hernández (Cuba)*

Time	Title	Speaker	Country
08:30–08:55	Toxicology of rectal insufflation ozone therapy OMA242	Dr. Frank Hernández	Cuba
08:55–09:20	Ozone oxidative preconditioning OOP play an important role in the prevention of septic shock OMA225	Dr. Zuliyt Zamora	Cuba
09:20–09:45	O ₃ /O ₂ -pneumoperitoneum in a pre-clinical cancer study. The role of the pneumoperitoneum and the legislation of pre-clinical studies with ozone in Germany OMA151	Dr. Siegfried Schulz	Germany
09:45–10:00	Ozone therapy in cancer. Experiences in 29 cases of Stage IV cancer with oxygen-ozone intraperitoneal OMA073	Dr. Juan Carlos Pérez Olmedo	Spain
10:00–10:15	Ozone therapy in a postoperative period of oncogynecological patients OMA016	Dr. Elena Kontorshchikova	Russia
10.15–10:30	Treatment of acute viral upper respiratory tract infections with Ozone: Minor AutoHemotherapy and topical Ozonated Olive Oil. Case Reports OMA075	Dr. Luis David Suárez	Mexico
10:30–10:45	Ozone therapy in patients with pulmonary emphysema OMA266	Dra. Yuleidys Paz	Cuba
10:45–11:00	Discussion		
11:00–11.30	Coffee break		

Session 5: Ozone Medical Applications

Chairman: *Dr. Roberto Dall'Aglio (Italy)*

Secretary: *Dr. Olga Sonia León (Cuba)*

Room:

3

Time	Title	Speaker	Country
11:30–11:55	Ozone therapy for herpes simplex, herpes zoster and viral hepatitis OMA020	Dr. Heinz Konrad	Brasil
11:55–12:20	Cuban experiences in the field of ophthalmologic diseases in the last 24 years OMA253	Dr. Mirta Copello	Cuba
12:20–12:35	Ozone therapy and electro-stimulation in Retinitis Pigmentosa OMA248	Dr. Lázaro Pérez	Cuba
12:35–12:50	Possible role of ozone therapy in resistance to oxidative stress in patients affected by favism OMA064	Dr. Roberto Dall'Aglio	Italy



Time	Title	Speaker	Country
12:50–13:05	Correction of lipid peroxidation and antioxidant defense system in pregnant patients with chronic placental insufficiency by ozone therapy and hyperbaric oxygenation OMA025	Dr. Hesus M. Klemente	Russia
13:05-13.20	Medical ozone: presentation of severe clinical cases OMA146	Dr. Antia T. Duany	Cuba
13:20–13:35	Usefulness of ozone therapy in the treatment of different child diseases OMA187	Dr. Agne E. Díaz	Cuba
13:35–13:50	Effect of ozone therapy and policosanol PPG on platelet reactivity in atherothrombotic diseases OMA234	Dr. Arquímedes L. Díaz	Cuba
13:50–14:10	Discussion		
14:10 -15:00	Lunch		

Oral Presentations

Session 6: *Ozonized Oils*

Chairmans: *Dr. Tatyana Pozniak (Mexico)*

Secretary: *Dr. Maritza Díaz (Cuba)*

Room:

3

Time	Title	Speaker	Country
15:00–15:20	Ozonized vegetables oils its uses and properties. The Cuban experience OMA200	Dr. Maritza Díaz	Cuba
15:20-15:35	Evidence of oxidative mechanism on antibacterial activity of ozonized sunflower oil OMA173	Dr. Oscar Ledea	Cuba
15:35–15:50	Effect of the Ozonation Degree of Vegetable Oils on its Antimicrobial Effectiveness OMA045	Dr. Tatyana Pozniak	Mexico
15:50–16:05	Total Unsaturation of Vegetable Oils as a New Parameter for their Characterization and for the Control of the Oils Ozonation Degree OMA071	Eng. Jesús Rodríguez	Mexico
16:05–16:20	Uses of the Ozonized Sunflower Oil in Condylomatosis Treatment. A new hope for peoples OMA261	Dr. Roy César Mariño	Cuba
16:20–16:35	Ozonized citronellal formulations effects in the treatment of rabbits with Dermatomycosis OMA196	BSc. Kendra García	Cuba
16:35–16:45	Discussion		



Oral Presentations

Session 7: Ozone Therapy in Dentistry/ Other Ozone Medical Applications

**Room:
3**

Chairman: Dr. Mark T. Weiser (USA)

Secretary: Dra. Judit Martínez (Cuba)

Time	Title	Speaker	Country
08:30–08:55	Clinical Applications of Ozone in Dentistry in the USA OMA113	Dr. Mark T. Weiser	USA
08:55–09:20	New Research in Health Care with Ozonated Fluids – HIV and Dental Implants OMA028	Dr. Julian Holmes	South Africa
09:20–09:35	Topical OLEOZON® effect in the treatment of third grade dental decay in children OMA244	Dra. Gloria Galán	Cuba
09:35–09:50	Use of OLEOZON in diabetic patients with periodontal abscess OMA247	Dra. Judit Martínez	Cuba
09:50–10:05	Healthy gums with ozone OMA035	Dra. Nora Bazzano	Argentina
10:05–10:20	Ozone therapy immunostimulant activity in the selective immunoglobulin A deficiency OMA246	Dra. Jacqueline Díaz	Cuba
10:20–10:35	Nutritional supplements and ozone therapy: Preliminary study OMA250	Dr. Luisa Batilde	Cuba
10:35–10:50	Ozone therapy in multiple sclerosis OMA216	Dr. Vincenzo Simonetti	Italia
10:50–11:10	Discussion		
11:00–11:30	Coffee break		

Session 8: Ozone Medical Applications

Chairmans: Dr. Claudia Kontorshchikova Russia

Secretary: Dr. Ivonne Méndez Cuba

**Room:
3**

Time	Title	Speaker	Country
11:30–11:45	Change in biochemical parameters after metabolic disorders correction by low ozone doses OMA015	Dr. Claudia Kontorshchikova	Russia
11:45–12:00	Dynamic of collagen tissue metabolism during ozone therapy in acne rosacea and acne vulgaris patients OMA036	Dr. Oxana Bitkina	Russia
12:00–12:15	The Influence of Ozone Therapy on Plasmatic Membranes. Single prognostic and diagnostic measure OMA011	Dr. Tatyana Barkhotkina	Ukraine
12:15–12:30	Prevention of stroke with the application of ozone therapy OMA263	Dr. Vivian Borroto	Cuba
12:30–13:00	Discussion		
13:00–14:00	Closing Ceremony		
14:00	Lunch		



Oral Presentations

Session 9: Environmental Management

Chairman: *Dr. Edward McBean (Canada)*

Secretary: *Dr. Ma. del Carmen Espinosa (Cuba)*

Room:

4

Time	Title	Speaker	Country
09:05-09:30	Conference: Ozone and ecotoxicology: a duo for a sustainable choice OMA044	Dr. Robert Hausler	Canada
09:30-09:40	Levels of Mercury, Arsenic and Selenium in <i>Clarias gariepinus</i> from Sagua la Grande River. OMA125	Dr. Susana Olivares	Cuba
09:40-09:50	Evaluation of manganese sources and cycling in a eutrophic water supply reservoir, Paso Bonito Reservoir, Cuba.	MSc. Carmen Betancourt	Cuba
09:50-10:00	Physicochemical and biological assessment of the Tuxpam river, Veracruz, Mexico. OMA086	BSc. Perla Tapia	Mexico
10:00-10:10	Integrated management of municipal solid wastes in urban localities. Case study: Havana city, Cuba. OMA170	MSc. Odalys Goicochea	Cuba
10:10-10:20	The "Metro Bus" transportation system as strategy for the environmental conservation. OMA147	MSc. María L. Flores	Mexico
10:20-10:30	Environmental crisis, natural disaster and the "desert society". OMA043	Dr. Reynol Díaz	Mexico
10:30-11:00	Discussion		
11:00-11.30	Coffee break		

Session 10: Environmental Management

Chairman: *Dr. Robert Hausler (Canada)*

Secretary: *Dr. Mayra Bataller (Cuba)*

Room: 4

Time	Title	Speaker	Country
11:30-11:55	Conference: Contamination of basins with industrial wastes: Case study: Matanza Riachuelo, Argentina. OMA031	Dr. Ma. Alejandra Cousido	Argentina
11:55-12:05	Brazil: demands arisen from the agreements taken in the Climatic Changes Summit of Copenhagen. OMA190	Dr. Elizabeth Morales	Brazil
12:05-12:15	Strengthening of the community socioproductive development, through the production of forestry plants. OMA135	MSc. Inés Marfisis	Venezuela



Time	Title	Speaker	Country
12:15-12:25	The transdisciplinarity in a garbage recycling project. OMA142	MSc. Lisbett Hernández	Venezuela
12:25-12:35	¿Is it Possible a Strategy to Benefit the Environment, Taking Advantage of the Renewed International Banking System? OMA007	MSc. José T. Vives	Mexico
12:35-12:45	Endangered specie Godoya antioquiensis: population structures, environmental effects and conservation plans. OMA018	MSc. Esteban Galeano Jorge Montoya	Colombia
12:45-13:00	Discussion		
13:00-14:00	Posters Session and Discussion		
14:00	Lunch		

Posters

Session 11: *Environmental Management*

Chairman: *Dr. Susana Díaz (Cuba)*

Secretary: *MSc. Alexis Pellón (Cuba)*

MSc. Yalexmi Ramos (Cuba)

**Room:
12**

Time: 13:00-14:00

Poster No	Title	Speaker	Country
O001	Heavy metal levels in liver and muscle tissues of bluefin tuna (<i>Thunnus thynnus</i>) caught in north Mediterranean and then fattened in the farm of Antalya Bay. OMA003	Tarik Bilal	Turkey
O002	Dangerous solid waste handling guide, with limited resources, for health care establishments. OMA047	Ismark Rodríguez	Cuba
O003	Analysis of anthropogenic organic compounds in San Diego de los Baños peloid, Pinar del Rio, Cuba. OMA116	Margaret Suárez	Cuba
O004	Biogeochemical process at hydrothermal systems, saline lagoons and coastal salt deposits, and it rolls in the water chemical composition origin. OMA112	Juan R. Fagundo	Cuba
O005	Application of GIS tools in polluting sources identification at "Calle 100" Landfill in Havana City. OMA119	Niurka Rodriguez	Cuba
O006	Preliminary study of the multiresistance to antibiotics and heavy metals in isolated of Almendares River. OMA121	Oiris Veranes	Cuba



Poster No	Title	Speaker	Country
0007	The risk management as an improvement tool of the security and occupational health in testing laboratories. OMA124	Susana Díaz	Cuba
0008	Isolation and characterization of the cultivable bacterial community in Almendares river. OMA127	Jeny A. Larrea	Cuba
0009	Assessment of PHAs, Pesticides, PCBs and Aliphatic Hydrocarbons in sediments of Almendares River, Havana, Cuba. OMA128	Lázaro Lima	Cuba
0010	Determination of heavy metals in marine sediments by means of total, pseudo-total and sequential procedures of extraction OMA131	Odalys Quevedo	Cuba
0011	Emission evaluation and environmental impact of the hydrogen sulphide in the atmospheric distillation tower of a Cuban refinery with the injection of two compounds to improve the heavy crude. OMA140	Juan A. Colás	Cuba
0012	Ionic variability and eutrophic characteristics of the Abreus Reservoir, Cuba.	Carmen Betancourt	Cuba
0013	Digital Map Library. A service for environmental administration. OMA183	Ana Elena Lambert	Cuba
0014	Evaluation of the chemical and biological risks at the Analysis Laboratories of the "Center for Industrial Biotechnology Studies". OMA153	Arelis Abalos	Cuba
0015	Evaluation of the environmental performance indicators of the Cuban Higher Education Centers. OMA157	Cira L. Isaac	Cuba
0016	Potential uses of tobacco industry solid residues. OMA158	Déborah Geada	Cuba
0017	Environmental Protection and Sustainable Development in Rural Mountain Communities. A case study OMA160	Eloy Labrada	Cuba
0018	Quantitative evaluation of the temperature of the wastewaters in "Agrupación Autopista" Natural Products Plant. OMA166	Marlene Batista	Cuba
0019	Management system in an environmental analysis laboratory. Experiences and perspectives. OMA175	Rogelio Mayarí	Cuba
0020	Molecular characterization of environmental <i>Cryptococcus</i> isolates from Cuba. OMA179	Carlos Fernández	Cuba
0021	Environmental <i>Histoplasma capsulatum</i> isolation in Cuba. Risks and prevention of histoplasmosis. OMA180	Carlos Fernández	Cuba
0022	Perception of the affectation that cause the handmade pottery in El Cano. OMA181	Antonio Vera	Cuba



Poster No	Title	Speaker	Country
0023	Determination of wear metals and contaminants in used lubrication oils: comparison study of aas and oes-rde methods. OMA194	Jorge Gómez	Cuba
0024	Persistent organic compounds in the Cuban oil industry. OMA202	Miriam Cora	Cuba
0025	Evaluation of spatial and temporal variation in marine sediment quality of Matanzas bay. OMA203	Odalys Quevedo	Cuba
0026	The environmental education in the new works of course for the subject Engineering of Processes III, in the education of chemical engineering. OMA210	Raúl Montejo	Cuba
0027	General strategies for the pollution control and prevention of the surface water in the basin Portoviejo River. OMA213	Roddy Macías	Ecuador
0028	Diffusion of Scientific Environment Information in Transitional Countries Through Open Access and Social Networking. OMA006	Ronald Munatsi	Zimbabwe
0029	Impacts of agribusiness and mining in Paracatu (Minas Gerais - Brazil). OMA093	Rodrigo Braga da Rocha	Brasil
0030	No Wood Cutting Tree: A Sustainable Alternative. OMA055	Sidnei Castilhos	Brasil
0031	Health condition of the viviparous native fish <i>Goodea atripinnis</i> from Yuriria Lake, Guanajuato, Mexico. OMA067	Ricardo Ruiz-Picos	México
0032	Environmental Perception of society related to the climate change problems (Region of Grande Vitória / State of Espírito Santo / Brazil). OMA078	Roosevelt S. Fernandes	Brasil
0033	Environmental Perception of farmers in the state of Espírito Santo / Brazil. OMA077	Roosevelt S. Fernandes	Brasil
0034	The green areas conservation and the benefit in the agricultural production through the organic material use. OMA090	Horacio Alvarado	México
0035	Application of multivariate statistical techniques in river water quality affected by anthropogenic influence. OMA094	Miguel A. Mallea	Argentina
0036	Experience of sustainable rural development using rationally natural resources, achieving alimentary sovereignty, restoring ecological balance and with environment care. OMA098	Carlos Hernández	Cuba
0037	Social Communitarian Interaction to Developed Aerobic Fermentation from Organic Garbage. OMA141	Lisbett Hernández	Venezuela
0038	Environmental and operative evaluation of the main plan of recyclable wastes in the city of Bogota (Colombia). OMA150	Aleyci Moscoso	Colombia



Poster No	Title	Speaker	Country
0039	Geoenvironmental problems of a intramontane valley of the Cumbres Calchaquíes (Tucumán, Argentina). OMA161	Elvira Yolanda	Argentina
0040	Agroecological cultural practices on short-term crops. OMA168	Nancy Cañas	Venezuela
0041	Analysis of the physical-chemical characteristics of fermented and not fermented green organic manure. OMA171	Olga Melchor	Venezuela
0042	Valuation of Environmental Management in the construction of rural roads in Ecuador. OMA193	Jaime A. Peralta	Ecuador
0043	Urbanization as a causal factor of change in river dynamics (Tucumán, Argentina). OMA197	Liliana del Valle Neder	Argentina
0044	Environmental mercury contamination: formation of mercury-selenium complexes as studied in vivo. OMA228	Ana Raquel Pinto	Portugal
0045	Environmental Factors and Prostate Cancer: How Nutrition and Hormones Change Growth of Prostate Cancer Cells. OMA229	Artur Aguas	Portugal
0046	Exposure to Environmental Noise Induces Changes in Rat Adrenal Gland. OMA230	Maria João Oliveira	Portugal
0047	Alternative development and establishment of urban agriculture in the community "Danilo Anderson" OMA191	Harvey Alanoca.	Venezuela
0048	Sanitary Risks for Gaseous Emissions, in Calle 100 Provincial Landfill Site. OMA232	Jaynet García	Cuba
0049	Evaluation of the risk to the human health for exposure to a place contaminated by dangerous substances. OMA136	Pilar Pacheco	Brazil
0050	Climate Change Scenarios in the Municipality of Pico de Orizaba, Veracruz, Mexico to determine the impact caused on natural resources. OMA026	Dr. José L. Alanís	Mexico



Oral Presentations

Session 12: Treatment of water, wastewater and solid wastes

Room:

Chairman: *Dr. Pierre Liechti (Switzerland)*

4

Secretary: *Dr. Lidia A. Fernández (Cuba)*

Time	Title	Speaker	Country
08:30-08:55	Conference: Ozone in combination with other technologies for industrial applications and the treatment of industrial wastewater. OMA087	Dr. Pierre Liechti	Switzerland
08:55-09:20	Conference: Challenges in Water Treatment for Small Drinking Water Systems. OMA057	Dr. Edward McBean	Canada
09:20-09:50	Round Table: Characterization and Treatment of Leachates from the Municipal Solid Waste Landfill "Calle 100", Havana city. Cuba. OMA164, OMA154, OMA115	Dr. Lidia A. Fernández, Dr. Matilde López, Dr. Ma. del Carmen Espinosa	Cuba
09:50-10:15	Ozone water disinfection in childcares from La Lisa Municipality at Havana. OMA132	Dr. Mayra Bataller	Cuba
10:05-10:15	Degradation of condensed polyphenols in wastewater of tannery plant by ozonation. OMA169	Dr. Natividad Ramírez	Mexico
10:15-10:25	Advanced primary treatment and ozonation of municipal wastewaters for reuse in agricultural irrigation. OMA189	MSc. Eliet Veliz	Cuba
10:25-10:35	Degradation of the pesticide Paraquat by ozonation. OMA174	MSC. Patricia Reynoso	Brazil
10:35-10:45	Modelling of the Technologies with Membranes. OMA050	Dr. Carlos García	Colombia
10:45-11:00	Discussion		
11:00-11.30	Coffee break		



Oral Presentations

Session 13: Treatment of water, wastewater and solid wastes

Chairman: *Dr. Oscar Monroy (Mexico)*

Secretary: *Dr. Matilde López (Cuba)*

Room:

4

Time	Title	Speaker	Country
11:30-11:55	Conference: Anaerobic digestion as an essential part of sustainability in Mexico City.	Dr. Oscar Monroy.	Mexico
11:55-12:20	Environmental impact of the wastewaters from the soybean oil refining. Treatment by anaerobic digestion. OMA152	Dr. Arelis Abalos	Cuba
12:20-12:30	Use of a submerged anaerobic filter in the removal of organic matter from municipal waste water. OMA178	MSc. José M. Carrión	Mexico
12:30-12:40	The solar energy in the treatment of wastewater: heterogeneous catalysis and photoFenton. OMA126	Dr. Yuri Aguilera	Cuba
12:40-12:50	Optimization of flocculation in dairy industry wastewaters treatment. OMA224	Dr. Yudith González	Cuba
12:50-13:00	Discussion		
13:00-13:10	The compost as an alternative for the use of the organic wastes in Mexico. OMA004	BSc. Pablo Escamilla	Mexico
13:10-13:20	Phytotreatment of Oil Spill Impacted Soils: Interaction Between Polyaromatic Hydrocarbons, Phenolics and Oxidative Enzymes. OMA080	MSc. Noemi Rivera	Mexico
13:20-13:30	Imidacloprid degradation in Istrian and Kvarner Olive Orchards Soils. OMA099	Dr. Cedomila Milin	Croatia
13:30-13:40	The Composting as a feasible solution to face the Municipal Solid Waste (MSW) generation problem in Mexico City. OMA005	MSc. Silvia Galicia	Mexico
13:40-13:50	Discussion		
14:00	Lunch		



Posters

Session 14: Corrosion and Materials Protection

Chairman: *Dr. Francisco Corvo (Cuba)*

Secretary: *MSc. Cecilia Valdés (Cuba)*

Room:

12

Time: 9:00 – 11:00

Poster No	Title	Speaker	Country
O112	Influence study of tropical island climate in the galvanized steel corrosion. Preliminary results. OMA198	Lisbet Acosta	Cuba
O113	Environmental pollution and its influence on the buildings. Preliminary studies. OMA134	Cecilia Valdés	Cuba
O114	Microbiological study corrosion in the 20Kp steels effervescent. OMA106	Alexander Cueli	Cuba
O115	Influence of environmental factors on the corrosion of carbon steel. OMA110	Ileana Rizo	Cuba
O116	Internal corrosion of submarine pipes. OMA129	Maria Elena Casas	Cuba
O117	Alternative solutions to inner protection of tanks. OMA223	Yosmari Adamés	Cuba
O118	Study of the origin of a fault showed in an acid steam condenser OMA096	Briseida Fernández	Cuba
O119	Influencia sobre el acabado estructural en la corrosión presente en enfriadores hechos de placas de acero inoxidable OMA176	Yichsi Rivera	Cuba
O120	Use of essential oils from plants in the control of the biodeterioration caused by microorganisms on Cuban and Argentine cultural heritage. OMA144	Sofía Borrego	Cuba
O121	Protection versus corrosion in residual metal powder OMA066	Francisco J. Arnaiz	Spain



Oral Presentations

Session 15: Renewable Energy

Chairman: *Dr. Isaac Sharpless (USA)*

Secretary: *Dr. Angel Recio (Cuba)*

Room:

4

Time	Title	Speaker	Country
08:30-08:55	Conference: The Role of Science in Assessing International Environmental Standards: Lessons from the Case of Animal Welfare Guidelines. OMA001	Dr. Isaac Sharpless	USA
08:55-09:05	Scientific applications for the practical use in water purification, waste water treatment and the use of biogas for energy generation. OMA074	MSc. Lizi Christiansen	Germany
09:05-09:15	Energetic use of the biogas from the wastes of the Brewery Hatuey in Santiago de Cuba. OMA186	Dr. Angel Recio	Cuba
09:15-09:25	Methane production assessment by anaerobic codigestion from stem banana and cattle waste in Antioquia, Colombia. OMA058	MSc. Sergio Arango Jorge Montoya Gustavo Peñuela	Colombia
09:25-09:35	Tobacco seed oil: New energy as precursor of biofuels. OMA107	Dr. Déborah Geadá	Cuba
09:35-09:40	Discussion		
09:40-09:50	Biosurfactant Production by Nitrogen Free Living Fixing Bacteria Growth in Hydrocarbons. OMA072	MSc. Josefina Pérez	Mexico
09:50-10:00	Analysis of the evolution of tropospheric ozone, in Santiago de Chile city, applying Fourier time-series. OMA084	Dr. Patricio Pacheco	Chile
10:00-10:10	Particle size analysis of Brazilian red mud and evaluation of the potential adsorption of the fractions for textile dyes. OMA049	MSc. Ana C. Russo	Brazil
10:10-10:15	Discussion		



Session 16: Ozone in the Food Industry. Ozone Chemistry

Chairman: MSc. José Llanes (Mexico)

Secretary: MSc. Eliet Véliz (Cuba)

Room:

4

Time	Title	Speaker	Country
10:15-10:25	Ozone use in the postharvest of papaya var Mardol-red. OMA167	Dr. Mayra Bataller	Cuba
10:25-10:35	Plague elimination and ozone effects on storage corn. OMA012	Dr. José G. Llanes	Mexico
10:35-10:45	Evaluation of a disinfection system for Swiss chard (Beta vulgaris var cicla) by aqueous ozone. OMA177	MSc. Gustavo Lorente	Cuba
10:45-10:55	Development and validation of HPLC method for simultaneous determination of cisplatin and its main ozonation product, the complex <i>cis,cis,trans</i> -diamminedichlorodihydroxoplatinum(IV) . OMA220	MSc. Yalexmi Ramos	Cuba
10:55-11:00	Discussion		
11:00-11.30	Coffee break		
11:30-11:40	Effect of the Activated Carbon Characteristics on the Methanol Decomposition in Aqueous Solution. OMA068	MSc. Iliana Fuentes	Mexico
11:40-11:50	Effect of Active Phase of Nickel and Nickel Oxide on the Decomposition Dynamics of 2,4-Dichlorophenoxyacetic Acid in Water. OMA027	MSc. Julia Rodríguez	Mexico
11:50-11:55	Discussion		
12:00-13:00	Posters Session and Discussion		
13:00-14:00	Closing Ceremony		
14:00	Lunch		



Posters

**Session 17: Treatment of Water, Wastewater and Solid
Wastes/ Renewable Energy/Ozone in Food Industry**

**Room:
12**

Chairman: MSc Caridad Ramos (Cuba)

Secretary: MSc Irán Fernández (Cuba)

B Sc. Marlén Robert (Cuba)

Time: 12:00-13:00

Poster No.	Title	Speaker	Country
O122	Application of activated carbon obtained from solid waste (sludge) of Varadero urban wastewater treatment plants (WWTPs). OMA 101	Lourdes Yamen	Cuba
O123	Characterization of solid waste: biosolids of Varadero urban wastewater treatment plants (WWTPs) OMA 102	Lourdes Yamen	Cuba
O124	Biodegradation of polycyclic aromatic hydrocarbons by <i>Ganoderma zonatum</i> B-18 and a commercial laccase of <i>Trametes versicolor</i> . OMA104	Ana M. Manzano	Cuba
O125	Crude enzyme extracts of Cuban native strains of White-rot fungi degrade synthetic dyes. OMA 109	Giselle Torres	Cuba
O126	The use of ultrasound in the treatment of wastewaters. OMA114	Katia González	Cuba
O127	Sludge treatment. A necessary step inside the technological process. OMA118	Matilde López	Cuba
O128	Utilization of the wood-rotting fungi in bioremediation of residuals solid and liquid of coffee industry OMA120	Nora García	Cuba
O129	DDT biodegradation using two native white- rot fungi strains. OMA122	Osmel Domínguez	Cuba
O130	Biosorption of Chromium (VI) by strain bacterial isolated from wastewater with metal contents. OMA123	Rosa Ma. Pérez	Cuba
O131	Chromium (III) removal using a bio-reactor with immobilized <i>Scenedesmus obliquus</i> . OMA149	Alexis Pellón	Cuba
O132	Microbiological evaluation in deep bedding system in the swine rearing. OMA165	Marlén Robert	Cuba
O133	Cobalt and nickel bioleaching from mining-metallurgical industry wastes. OMA172	Orquídea Coto	Cuba
O134	Results of innovations carried out in the water treatment system with ozone in the CENPALAB. OMA195	José Á. Castro	Cuba
O135	Stability and enzyme activities of crude extract of <i>Trametes maxima</i> for <i>in vitro</i> decolourization of synthetic dyes. OMA199	María I. Sánchez	Cuba
O136	Treatment of oleaginous waters with fibers of Kenaf, ecological alternative for the removal of fuels of aquatic ecosystems. OMA209	Ramón A. Batista	Cuba



Poster No.	Title	Speaker	Country
O137	Bioremediation of oily solids wastes from a petroleum refinery by white rot fungi inoculation. OMA212	Roberto Romero	Cuba
O138	Anaerobic effluent disinfection using ozone/chlorine. OMA019	Gustavo H. Silva	Brasil
O139	Effect of pH on nickel (II) biosorption by <i>Saccharomyces cerevisiae</i> var. <i>ellipsoideus</i> . OMA059	Eliseo Cristiani	México
O140	Evaluation of the Avocado Shell for the Removal of Hexavalent and Total Chromium from Aqueous Solutions. OMA060	Eliseo Cristiani	México
O141	Hexavalent and Total Chromium Removal by <i>Pyrus communis</i> Bark. OMA061	Eliseo Cristiani	México
O142	Hexavalent Chromium Reduction by Microbial Enrichments. OMA062	Eliseo Cristiani	México
O143	Kinetic Modeling of the Removal of Cr(VI) from Aqueous Solutions by Biomaterials. OMA063	Eliseo Cristiani	México
O144	Efficiency of ozone treatment on physicochemical characteristics of coffee processing wastewater. OMA076	Marta C. Silva	Brasil
O145	Application of ozone for treatment of indoor air. OMA088	Wilfredo Irrazabal Urruchi	Brasil
O146	Biological Removal Kinetics of Nitrates in Sequential Batch Reactors Handling Heavy Load and Dilution of Pollutants. OMA148	Salvador Luévano	Mexico
O147	Trickling filter treatment of landfill leachate. OMA097	Caridad Ramos	Cuba
O148	Sulfate reducing bioreactors stimulated with sulfate-reducing bacteria isolated from cow and chicken manure. An experience in Venezuela, in water drainage from mine tailings. OMA159	Eddy Karina Balzán	Venezuela
O149	Treatment system of cytostatic wastes applying ozone. OMA182	Carmen Gutiérrez	Cuba
O150	Bacteria as potential tools in the improvement of constructed wetlands for wastewater treatment. OMA100	Irina Salgado	Cuba
O151	Technological quality of wheat flour obtained from ozonized grain. OMA029	Juliana Lobo	Brazil
O152	Geochemistry of the state of the Mato Grosso do Sul, Brazil. OMA002	Sarai de Alcantara	Brazil
O153	Possibilities of applying sludge from “Quibú” wastewater treatment plant to develop tomato plants growing under deficient water supply conditions. OMA037	Inés Reynaldo	Cuba
O154	Usefulness of VITEK system for bacterial identification and antimicrobial susceptibility testing isolated from surface waters reservoirs. OMA105	Beatriz Romeu	Cuba
O155	Ozone bleaching of cellulosic fibers: experience with towels. OMA162	Freddy Rodríguez	Cuba
O156	Use of ozonated water and treated domestic wastewater for irrigation of papaya seedling var. Maradol Roja. OMA163	José González	Cuba

Poster No.	Title	Speaker	Country
O157	Advantages for the combustion and the environment with the use of vegetable oil. OMA201	Melvis Betancourt	Cuba
O158	Oxidative damage in <i>Escherichia coli</i> and <i>Salmonella enterica</i> var. <i>typhimurium</i> treated with low concentration of dissolved ozone. OMA111	Irán Fernández	Cuba



Oral Presentations

Session 18: Corrosion and Materials Protection

Chairman: Dr. José Salminci

Secretary: MSc. Abel Castañeda

Room:

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Time	Title	Speaker	Country
08:30-08:45	Role of NOx in materials corrosion and degradation. OMA108	Dr. Francisco Corvo	Cuba
08:45-09:00	Characterization of the composition and the actual state of the stone of the Convent and Basilica of St. Francis of Assisi, in Havana, Cuba. OMA065	Dr. José Salminci	Argentina
09:00-09:15	Carbonation of concrete in natural atmosphere and accelerated carbonation chamber. OMA089	MSc. Tezomoc Perez	Mexico
09:15-10:00	Reinforced steel corrosion comparative study in the reinforcing concrete through conventional and electrochemical techniques. OMA185	MSc. Abel Castañeda	Cuba
10:00-10:15	Use of thermal activated low grade kaolinitic clays as an alternative for partial replacement of OPC. OMA103	MSc. Adrián Alujas	Cuba
10:15-10:30	First experiences in the electrochemical study efficiency of the Cuban additive in the steel corrosion reduction in mortar probes. OMA221	MSc. Yarelys Martín	Cuba
10:30-10:45	La corrosión en la atmósfera con emisiones biogénicas de la producción del alcohol y levadura. Caso de estudio Covadonga. OMA130	MSc. Zenaida Usugaua	Cuba
10:45-11:00	Tagets patula L. extracts as green corrosion inhibitors for aluminium in HCl solution. OMA204	Dr. Olusegun K. Abiola	Nigeria
11:00-11.30	Coffee break		
11:30-11:45	Estudio de la corrosión atmosférica en tres microclimas en el estado de Campeche, México. OMA231	Dr. Javier Reyes	Mexico
13:00-14:00	Closing Ceremony		
14:00	Lunch		



Posters

Session: *New Trends on Nuclear Medicine*

Chairman: *Dr. Juan F. Batista Cuéllar*

Secretary: *Lic. Alejandro Perera Pintado*

Room:

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Time: 11:30 – 13:00

Poster No	Title	Speaker	Country
N001	Comparative study of Scintigraphy with 99mTc-MIBI and Ultrasound in patient in IRTC and suspicion of associated parathyroid nodes NUC001	Caridad Casacó	Cuba
N002	A software package for three-dimensional dose estimations in the locoregional radioimmunotherapy of high grade gliomas using the ¹⁸⁸ Re labelled NIMOTUZUMAB NUC002	Leonel Torres	Cuba
N003	Low Dose of Ionizing Radiation Enhances Cell Proliferation via MAPKs/ERK Pathway NUC003	Xinyue Liang	China
N004	Bone Marrow Mesenchymal Stem Cell Proliferations and Mechanism by Low Dose of Ionizing Radiation via ERK1/2 and P38 in Rats NUC004	Weihao Xu	China
N005	Freeze-dried formulation for the labeling of HEDP with ¹⁸⁸ Re NUC005	Anaís Prats	Cuba
N006	^{99m} Tc-Labeling of ciprofloxacin for the diagnosis of infections. Comparison and preclinical assessment of two methods NUC006	Abel Hernández	Cuba
N007	Cardiovascular risk factors that justify the gated-SPECT in asymptomatic type 2 diabetic patients NUC007	Yamilé Peña	Cuba
N008	New cyclic peptide labeled with 99mTc for scintigraphic detection of malignant tumors with upregulated expression of vitronectin receptor NUC008	Alejandro Perera	Cuba
N009	Modificación del hR3 con DOTA-NHS. Marcaje con 90Y y biodistribución NUC009	Dianelys Ondarse	Cuba
N010	Comparative analysis with 60Co therapeutic treatments using different dosimetric planning systems NUC010	Dianelys Ondarse	Cuba



Oral Presentations

**Session: *II International Symposium on Technological
Prospective and intelligence***

Room:

6

Chairman: *Rolando M. Hernández Vigaud (OMPI)*

Secretary: *Marta Infante (Cuba)*

Time	Title	Speaker	Country
09:00-09:10	Palabras de bienvenida y presentación de la sesión	Beatriz García	Cuba
09:10-09:30	Analysis of the criteria of experts on potential economic effects of the phenomenon of polymorphism of drug substances patent of invention in Costa Rica VIG007	German L Madrigal	Costa Rica
09:40-10:00	Study of Patentability of the Tenofovir Drug VIG008	Carla C. de Freitas da Silveira	Brasil
10:00-10:20	An overview of breast cancer through patents	Inés Pérez Braojo	Cuba
10: 20-10:40	Cat's Claw (<i>Uncaria Tomentosa</i>): Technology Watch across of the study of patents documents VIG012	Beatriz García Silvia Hidalgo	Cuba Costa Rica
10:40-11:00	Effective strategies for Nanomedicine study through Patents: The Case of Nanoparticles and drug delivery systems VIG001	Sonia Trigueiro Beatriz Garcia	UK Cuba
11:00-11.30	Coffee break		
11:30-11:50	Patent information: Indispensable tool and link between research, innovation and marketing of pharmaceutical products VIG013	Beatriz García	Cuba
11:50-12:10	Impact of Technology Watch from Patent Information Cuban Beekeeping	Damárys Suárez	Cuba
12:10-12:30	Tequila: from its origin to its distortion. Who owns knowledge? An approach: VIG005	Bernardo Olmedo	Mexico
12:30-13:30	PANEL: Salud, Innovación y Propiedad Intelectual	-	-
13:30–14:30	Poster Session		
14:30	Lunch		



Posters

**Session: II International Symposium on Technological
Prospective and Intelligence**

Chairman: *Beatriz García (Cuba)*

Secretary: *Alianna Formoso (Cuba)*

Room:

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Time: 13:30 – 2:30 pm

Poster No	Title	Speaker	Country
V001	Importance of developing a procedure for identifying the needs of knowledge from patent information VIG002	Nicolás M. Rodríguez	Cuba
V002	Prospective Technological Study of Plant Species through Patent VIG009	Carla Cristina de Freitas da Silveira	Brazil
V003	Orobanche ramosa: Patents and allelopathic knowledge as the keys for a future successful integrate plague management in tobacco industry VIG016	Déborah Geada	Cuba
V004	Aloe vera in tobacco industry: Link between University and Institute from basic knowledge to productive solution VIG017	Déborah Geada	Cuba
V005	Purification of biomolecules derived from transgenic plants: Sufficiency of patents information contribution VIG018	Déborah Geada	Cuba
V006	Allelopathy potentialities as a strategy for new projects management in tobacco industry VIG019	Déborah Geada	Cuba
V007	Developments in patent and technology databases at the World Intellectual Property Organization VIG020	Andrew Czajkowski	Switzerland
V008	Tendency evaluation in the field of multiwall carbon nanotubes (MWCNT) using the intellectual properties tool VIG021	Verónica Ramírez	Cuba
V009	Attempting a dialogue between Intellectual Property and Public Health: Towards the Co-construction of spaces for Joint Common Policy VIG022	María I. de Jesús	Venezuela
V010	Observatorio Tecnológico - Una herramienta estratégica para la generación del conocimiento".	Sergio M. Paulino Araken Alves	Brazil



Oral Presentations

**Session: II International Symposium on Technological
Prospective and Intelligence**

Room:

6

Chairman: *Licia Oliveira (Brazil)*

Secretary: *Damárys Suárez (Cuba)*

Time	Title	Speaker	Country
09:00-09:05	Presentación de la sesión		
09:05-9:30	The importance of the Patent Cooperation Treaty (PCT) for the scientific community and users of the patent system VIG023	Rolando M. Hernández	OMPI
09:30-9:50	Public science and technology policy: Polish experiences, 1989-2009 VIG003	Andrzej H Jasiński	Poland
9:50-10:10	Mexican science and technology policy: some indicators VIG004	Bernardo Olmedo	Mexico
10:10-10:40	Public relations as a tool of science communication with society VIG010	Andrzej H Jasiński	Poland
11:40-12:00	Methodology of technological surveillance in universities and research centers VIG014	Mercedes Delgado	Cuba
11:00-11:20	Coffee break		
11:20-11:40	Analysis of strategies for teaching the course of pharmaceutical innovation management as a mechanism to encourage research - development - innovation (I + D + I) in pharmacy students at the University of Costa Rica VIG006	German L Madrigal	Costa Rica
11:40-12:00	Tech mining for analysis of publishing opportunities in university environment VIG024	Marta Infante	Cuba
12:00-12:20	Network analysis of patent citations. Myth and reality VIG015	Beatriz García	Cuba
12:20-12:40	Intellectual Property and Knowledge Generation from patent documents an approach from the Quality Management VIG011	Alianna Formoso	Cuba
12:40-13:00	How and for what register a trademark? The trademark registration at the border	Raúl Sancho	Cuba
13:50-13:30	Industrial Property Management to the biotrade. Conflict of Cuban tobacco brands	Hossanna Rodriguez	Cuba
13:20-13:40	HABANOS, an appellation of origin of success	Adargelio Garrido	Cuba
13:40-14:00	Innovation strategies of Mexican pharmaceutical firms VIG025	Dr. José L. Solleiro	Mexico
14:00-14:10	Clausura del Simposium. Relatoria	Beatriz García	Cuba
14:00	Lunch		



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