



INSTITUTO CANARIO DE INVESTIGACIÓN DEL CÁNCER ICIC



ULL
Universidad de La Laguna

4th Meeting YCIC Young Cancer Investigators of the Canary Islands



UNIVERSIDADE da MADEIRA

2nd Meeting YBIM Young Biomedical Investigators of the Macaronesia



UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA

November 10–13th, 2007



**Arrecife Gran Hotel
Lanzarote**



INTERREG III B PROYECTO BIOPOLIS
AZORES - MADEIRA - CANARIAS CONSTRUYENDO UNA BIO-REGION EUROPEA



canarias BioRegión



FUNCIS
Fundación Canaria de Investigación y Salud

Scientific Committee

Chairpersons: Sergio Moreno, CIC Salamanca and Nicolás Díaz Chico, ULPGC, ICIC

Ángel Gutiérrez Ravelo, IUBO-ICIC, ULL

Armando Torres, ITB, ULL

Rafael Zárate, ULL, ICIC

Joaquín Hdez. Brito, ULPGC

Javier Dorta Delgado, SCS, ICIC

Paula Castilho, UMA, Madeira

Manuela Lima, UA, Azores

Miguel Fernández Braña, CEU, Madrid

Basilio Valladares, IUET, ULL

Fernando García Tellado, CSIC

Local Organizing Committee

Dionisio Lorenzo (FUNCIS, Coordinator), Germán Rodríguez (ULPGC-ICIC), Raquel Ramírez (ICIC - ULPGC), Víctor Díaz Viera (FUNCIS), Francisco Puertas (ICIC)

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Cabildo de Lanzarote

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Project Interreg IIIB Biopolis and Project Canarias Bioregión

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Centro de Biomedicina y Biotecnología de Gran Canaria (BIOCÁN)

Asociación Española de Investigación sobre el Cáncer (ASEICA)

Asociación Canaria de Cáncer de Mama (ACCM)

OBJECTIVES:

1. Facilitate Young Biomedical Researchers of the Macaronesia to communicate their scientific results in a friendly environment.
2. Encourage young and senior biomedical Macaronesian researchers to cooperate in the development of new projects.
3. Obtain the expert advice from the world–class invited biomedical scientists.
4. Start up a Biomedical Research Network in the Macaronesia that will increase the success of future projects.
5. Discuss a common strategy for Biomedical and Biotechnolgy development integrating all the universities and research institutions implicated.

REGISTRATION

Participation as speaker in this Meeting will be by invitation of the Organising Committee. Participation with a poster is offered to any young biomedical investigator (<40 yrs), with preference to those working in the Macaronesian islands. Please contact with:

Dionisio Lorenzo, dlorenzo@becarios.ulpgc.es

IV YCIC – II YBIM

Programme

SATURDAY, NOVEMBER, 10th 2007

<p>Registration and documentation Arrecife Gran Hotel, 1st floor</p>	09:00- ...
<p>First poster Session: NEW ANTITUMOR COMPOUNDS Chairpersons: Miguel Fdez. Braña, CEU Madrid, y Ana Estévez Braun ULL-IUBO</p> <p>(See the list of posters at the end of this Program) (Coffee will be served during this session)</p>	10:00 –11:00
<p>YCIC/YBIM session: EXPERIMENTAL AND BIOMEDICAL RESEARCH Chairpersons: Pedro Lara, UPGC-ICIC, and Ángel G. Ravelo. ULL-ICIC</p> <p>Félix Machín (45´) Research Unit, La Candelaria Univ. Hospital, Tenerife. Evaluation of DNA-damage activity of putative antitumoral compounds in yeast</p> <p>Diego Álvarez de la Rosa (45´), ITB, University of La Laguna Pathophysiological roles of the ENaC/DEG family of ion channels.</p> <p>Ricardo Pardal (45´) Hospital Virgen del Rocío, Sevilla Stem cells and cancer.</p>	11:00 – 13:30
<p>Opening Ceremony</p> <p>Local and Academic authorities, ICIC, YCIC and YBIM representatives</p>	13:30-14:00
<p>Lunch</p>	14:00-16:00
<p>YCIC/YBIM session: NEW ANTITUMOR COMPOUNDS Chairpersons: Miguel Fdez Braña, CEU Madrid, and Fernando García-Tellado, CSIC-IPNA</p> <p>Ruben Pérez Machín (15´), ICIC – IUBO New natural SERM and SARM compounds</p> <p>Elisa Pérez Sacau (15'), ICIC, IUBO, Universidad de La Laguna Computational tools for drug design. Molecular modelling of the binding mode of several antitumoral quinones.</p> <p>Miguel Fernandes (35'), University of Madeira, Funchal Molecular modelling of ligands – balancing specificity using computational methods</p> <p>Mario Díaz (35´), ITB, University of La Laguna New Tamoxifen derivatives</p>	16:00-18:00

Coffee break	18:00 –18:30
<p>KEYNOTE LECTURE (I) Chairpersons: Sergio Moreno, CI Cáncer, Salamanca, and José Carlos Rodríguez, SCS–ULPGC</p> <p>Invited Speaker: Jiri Lukas, Denmark Cancer Institute DNA damage–induced ‘chromatin code’</p>	18:30 –20:00
<p>Macaronesian Biomed and Biotech Research Network Expert session</p> <p>ATTENTION: THIS SESSION MAY BE RE–SCHEDULED: Those interested in attending should ask to Dr Díaz Chico (bndiaz@icic.es)</p>	20:00–21:30
DINNER (Arrecife Gran Hotel)	21:30
SUNDAY, NOVEMBER 11th, 2007	
<p style="text-align: center;">YCIC session: TUMOR GENOMICS AND MARKERS Chairperson: Juan C. Díaz Chico, ULPGC–ICIC, and Jesús García–Foncillas CU Navarra</p> <p>Elisa Bordón Rodríguez (15’), ICIC, Las Palmas de Gran Canaria Radiation induced DNA damage and repair. Opportunities for predictive assays.</p> <p>Raquel Ramírez (15’), ICIC, Las Palmas de Gran Canaria Differences among microsatellite instability, MGMT promoter methylation and Kras mutation in colorectal and endometrial cancers</p> <p>Luis Alberto Henríquez Hernández (15’) ICIC, Las Palmas de Gran Canaria Cytokine dependent mechanisms of metastasis in prostate cancer</p> <p>Germán Rodríguez (15’), ICIC, Las Palmas de Gran Canaria <i>PitX2</i> gene methylation in endometrial cancer.</p> <p>Antonio Tugores, (35´) Research Unit, Insular & Materno–Infantil University Hospital, Gran Canaria. LOH at 11p13: Fishing a candidate tumour suppressor gene</p>	09:00–11:00
<p>Second poster session: Tumour genomics Chairpersons: Jiri Lukas and Miguel Beato</p> <p>(See the list of posters at the end of this Program) (Coffee will be served during this session)</p>	11:00–12.00
	12:00 – 14:00

KEYNOTE LECTURE (II)

Chairpersons: Sergio Moreno CI Cáncer, Salamanca, and Juan C. Díaz Chico, ULPGC-ICIC

Invited speaker:

Miguel Beato, CRG, Barcelona

Hormonal signalling in breast cancer cells

Lunch

14:00-16:00

YCIC/YBIM session: BIOTECHNOLOGY AND BIOMEDICINE

Chairpersons: Nelson Simões, U. Açores, and Rosa Apolinario, SCS-ICIC

Teresa Giráldez (35´), ITB, University of La Laguna

Molecular rearrangements underlying the function of ion channels

Manuela Lima (35´), University of Azores

Complexity in monogenic diseases: Machado-Joseph disease (MJD/SCA3) as a case-study.

Armando Torres (35´), ITB, University of La Laguna

Primary Hyperoxaluria as an example of traslational research

16:00 - 18:00

Coffee break

18:00 - 18:30

KEYNOTE LECTURE (III)

Chairpersons: Sergio Moreno, CIC, Salamanca and Pedro Lara, ULPGC-ICIC

Invited speaker:

Claudia Lukas, Denmark Cancer Institute

Microscopy-based screen for genome caretakers.

18:30-20:00

ICIC ASSEMBLY

20:00-21:30

DINNER at the Arrecife Gran Hotel

21:30

MONDAY, NOVEMBER 12th, 2006**YCIC / YBIM session: BIOTECHNOLOGY AND BIOMEDICINE**

Chairpersons: Rafael Zárate, IUBO-ULL, and Leandro Fernández, ULPGC

Raquel Marín (25´), ULL

Resources to study membrane effects of estrogens and antiestrogens.

Basilio Valladares (25´), IUET, University of La Laguna

Free-living amoebas in human pathology

Nabil El Jaber (25´), IUBO, University of La Laguna

Quest of bioactive molecules: phytochemistry and biotechnology.

Ángel G. Ravelo (25´), IUBO, University of La Laguna

09:00-11:00

Natural products as a unique source of new microtubule-stabilizing agents.	
Coffee break	11:00-11:30
KEYNOTE LECTURE (IV) Chairperson: Javier Dorta, SCS – ICIC, and Pedro Lara, ULPGC-ICIC Invited Speaker: Jesús García-Foncillas , Jefe de Servicio de Oncología, Clínica Universitaria de Navarra Molecular basis of colorrectal cancer.	11:30-13:00
Closing session	13:00-14:00
Lunch	14:00 – 18:00
ICIC – AFOL “Canarias Contra el Cáncer” Lunes 12 de noviembre a las 18:30 horas Nicolás Díaz Chico , La investigación del cáncer en Canarias (5 min) Sergio Moreno , Bases moleculares del Cáncer (20 min) Santiago Domínguez Coello , Obesidad y cáncer (20 min) Javier Dorta , Detección precoz y tratamiento del cáncer colorrectal (30 min) Orlando Falcón , Prevención del cáncer de cuello uterino (30 min) Coloquio Coordinado por Carmen Arrocha (AFOL) Marisa Herrera (ACCM)	18:30-21:00
CLOSING DINNER 21:00 Bus in front of the Arrecife Gran Hotel Diner at the Castillo de San José (Invitation of the Cabildo de Lanzarote)	21:30
TUESDAY, NOVEMBER 13th, 2007 HIKING LANZAROTE VOLCANOES RETURNING HOME POSTER PRESENTATIONS: First session:	08:00

New antitumoral agents

1. **Aragón Z, Pérez A, Trujillo JM, López H, Boluda C.** IUBO, IPNA – CSIC. Regioselective Enzymatic Cinnamoylation and Benzoylation of the Aglycone of a Secoiridoid Glucoside
2. **Cedrón JC, Estévez-Braun A, Ravelo AG, G.-León L, Padrón JM** IUBO, BioLab – ICIC. Selective transformations of bioactive alkaloids from *Pancreatum canariense*.
3. **Cequier-Sánchez E, Rodríguez-González C, Ravelo AG, Zárate R.** IUBO, Univ. La Laguna. Production of Medicinal and Nutritionally Important Fatty Acids in Endemic Canary Islands *Echium* Species.
4. **García-Velázquez J, Díaz-Díaz D, Muñoz ME, Santamaría A, Ravelo AG, Marrero-Tellado JJ.** IUBO, The Dow Chemical Company (Dow Europe GmbH), Univ. País Vasco. Instantaneous Gelation of Organic Fluids by a Novel Multicomponent Organogelator System.
5. **Gómez-Medina S, Marrero-Tellado JJ, Cabrera-de-León A, Brito-Díaz B, Zárate R, Ravelo AG.** IUBO, Hospital NS de La Candelaria. Chemical Library based on Fatty Acid for the Control of Obesity.
6. **Gutiérrez-Nicolás F, Estévez-Braun A, Zárate R, Oberti JC, Ravelo AG.** IUBO, Univ. Córdoba (Argentina), ICIC. Novel terpenoids from *Plenckia integerrima* and biotechnology of *Maytenus canariensis*.
7. **Hueso-Falcón I, Estévez-Braun A, Ravelo AG.** IUBO, ICIC. Synthesis of potential anti-inflammatory and antitumoral kaurene derivatives.
8. **Jiménez-Alonso S, Chávez-Orellana H, Estévez-Braun A, Ravelo AG, Gamarro F, Castanys S.** IUBO, Group QUIBIONAT – ICIC, Instituto de Parasitología “López Neyra” (Granada). Synthesis and anti-MDR activity of complex *bis*-pyrano-1,4-benzoquinones.
9. **López-Tosco S, González-León L, Tejedor D, Padrón JM, García-Tellado F.** IPNA – CSIC, Group of New Antitumor Drug Synthesis – ICIC. Discovery of Novel Families of Antiproliferative Drug Leads by a Diversity-Oriented Synthesis of Molecular Fragments.
10. **Oramas-Royo S, Estévez-Braun A, Ravelo AG, Chávez-Orellana H.** IUBO, Univ. San Luis Gonzaga (Ica, Perú), ICIC. Bioactive terpenoids isolated from the roots of *Maytenus retusa*.

Second poster session: Molecular biology of cancer and epidemiology.

1. **Buset N, Torres-Galván MJ, Cumplido JA, Caballero A, Blanco C, Carrillo T.** Hospital Universitario de Gran Canaria Dr. Negrín. Association study of LTC4S, ALOX5, and ALOX5AP polymorphisms and bronchial asthma in a population of the Canary Islands.
2. **Cruz-Dorta R, Vilar-Mesa MC, Dorta-Delgado J.** Hospital NS de La Candelaria, ICIC. Tumors register at Hospital Universitario Ntra. Sra. de Candelaria.
3. **Fontes FG, Bordón E, Lloret M, Rey A, Lara PC.** Hospital Universitario de Gran Canaria Dr. Negrín. Predictive role of IGF-1R and MVP in patients with localized cervical carcinoma treated by radio-chemotherapy.
4. **González A, Dorta-Delgado J, Rodríguez G, Brito B, Rodríguez MC, Cabrera A, Díaz-Chico JC, Reyes R, Aguirre-Jaime A, Díaz-Chico BN.** Hospital NS de La Candelaria, Univ. Las Palmas, Univ. La Laguna, ICIC. Increased risk of breast cancer in women bearing a combination of large CAG and GGN repeats in the exon 1 of the androgen receptor gene.
5. **Cabrera J, Loro JF, Estévez F, Quintana J.** Univ. Las Palmas, ICIC. Melatonin decreases cell proliferation on human melanoma SK-MEL-1 cells: role of p38 MAPK.
6. **Lourenço P, Rodríguez G, Santos C, Bruges-Armas J, Diaz-Chico BN, Diaz-Chico JC, Lima M.** Univ. Azores, Univ. Las Palmas, Hospital do Santo Espírito/SEEMBO. The AR polymorphisms in the Azorean population: a preliminary study.
7. **Machín RP, Ríos-Luci C, Padrón JM.** IUBO, BioLab - FICIC. Critical Parameters in the MCF-7 cell proliferation bioassay (E-Screen).
8. **Marrero-Alonso J, García-Marrero B, Gómez T, Díaz M.** Univ. La Laguna, IPNA - CSIC, ICIC. Comparative effects of novel tamoxifen derivatives on MCF-7 cell proliferation
9. **Santana-Farré R, Flores-Morales A, Fernández-Pérez L.** Univ. Las Palmas, Karolinska Institute (Suecia), ICIC. *In vivo* and *in vitro* regulation of Suppressor of Cytokine Signalling (SOCS) proteins
10. **Ríos-Luci C, González-León L, Favier LS, Padrón JI, Tonn CE, Martin VS, Padrón JM.** IUBO, BioLab - FICIC, Univ. Nacional de San Luis (Argentina). *In vitro* cytotoxicity of synthetic xanthanolide sesquiterpenes toward human cancer cells.
11. **Ríos-Luci C, González-León L, Bonifazi EL, Burton G, Misico RI, Padrón JM.** IUBO, BioLab - FICIC, Univ. Buenos Aires. Structure-cytotoxicity relationships of some synthetic naphthoquinones related to Lapachol.