



«ETTORE MAJORANA»
FOUNDATION AND CENTRE
FOR SCIENTIFIC CULTURE
INTERNATIONAL SCHOOL
OF UROLOGY AND NEPHROLOGY



SIUrO
Società Italiana di Urologia Oncologica

«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

*to pay a permanent tribute to Galileo Galilei, founder of modern science
and to Enrico Fermi, "the italian navigator", father of the weak forces*

INTERNATIONAL SCHOOL OF UROLOGY AND NEPHROLOGY

14th Course: Advances in Urological Oncology “Prostate Cancer: from Molecular and Cellular Biology to Therapeutic Advancement”

The Course will be held under the auspices of: • Italian Society of Urological Oncology (SIUrO) • University of Palermo
• University of Bologna • Faculty of Medicine of the Catholic University of the Sacred Heart of Rome • Italian Ministry of Health
• Italian Ministry for Instruction, University and (Scientific) Research • Sicilian Regional Government • World Federation of Scientists

PURPOSE OF THE COURSE

The purpose of the Course is to provide state of the art knowledge and future perspectives on basic and translational research, pathology and advanced therapeutic strategies of prostate cancer in a multidisciplinary approach. Scientific sessions will include interactive discussions between the faculty and the participants. International experts in research and clinical management of prostate cancer will share their views and experience with the audience. The Course is the fourth of a series of courses held under the aegis of the Italian Society of Urological Oncology.

SCIENTIFIC PRELIMINARY PROGRAMME

Prostate cancer stem cell biology. Epithelial-mesenchymal-transition and evolution of neoplastic cells. Role of microRNAs in cancerogenesis. Functional gene profiling in prostate cancer. Biomarkers. Pitfalls and problems in histopathological evaluation of biopsy. Definition of CRPC and androgen independence. AR pathway in HDPC and CRPC. GnRH-R in prostate cancer: from cell biology to targeted therapeutic strategies. Diagnostic and therapeutic work-up in recurrent disease. First line therapies in CRPC. New AR binding agents. New agents in CRPC. Bone health, skeletal related events and new bone targeting agents. Active surveillance. Prostate Cancer Units.

GENERAL INFORMATION

• **Person wishing to attend the Course** should write, **within December 20th 2012** to: Prof. Michele Pavone-Macaluso c/o E.DI.PO. s.r.l. Via Libertà, 103 - Palermo - fax +39 091 6251719 - michpav@tin.it - edi.po@tiscali.it, **specifying**: • date and place of birth, together with present nationality • degree and other academic qualifications • present position and place of work, address and e-mail.

• **Accreditation for Continuing Medical Education** (by the Italian Ministry of Health (ECM: *Educazione Continua in Medicina*) will be applied.

• **The registration fee** for participants € 2.200,00 plus VAT, to be paid within February 10th, 2013 to the Organising Secretariat – is inclusive of: scientific session, transfer from airport (Palermo or Trapani) to Erice and viceversa, lodging on full board basis and social events.

• **Payment by bank draft (bank fees at your charge)**
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DIRECTOR OF THE SCHOOL
Michele Pavone-Macaluso

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General Policy

- IN VIVO is a multidisciplinary journal designed to bring together original high quality works and reviews on experimental and clinical biomedical research within the framework of comparative physiology and pathology. The special focus of the journal is the publication of works on: (a) experimental development and the application of new diagnostic procedures; (b) pharmacological and toxicological evaluation of new drugs and drug combinations; (c) development and characterization of models for biomedical research.
- One of the principal aims of IN VIVO is to provide for the prompt publication of accepted articles, generally within 1-2 months from final acceptance.
- IN VIVO supports: (a) the aims and the research programmes of the INTERNATIONAL INSTITUTE OF ANTICANCER RESEARCH (IIAR) (Kapandriti, Attiki, Greece) and (b) the organization of the INTERNATIONAL CONFERENCES OF ANTICANCER RESEARCH.

Editorial Office

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For more information about IN VIVO, IIAR and the conferences please visit the IIAR websites: www.iiar-anticancer.org and www.iiarjournals.org

Selection of Recent Articles

Repopulation of the Irradiation Damaged Lung with Bone Marrow-derived Cells. M.E. BERNARD, H. KIM, M.S. RAJAGOPALAN, B. STONE, U. SALIMI, J.-C. RWIGEMA, M.W. EPPERLY, H. SHEN, JU.P. GOFF, D. FRANICOLA, T. DIXON, S. CAO, X. ZHANG, H. WANG, D.B. STOLZ, J.S. GREENBERGER (*Pittsburgh, PA, USA*)

15-Lipoxygenase-1 Induces Lipid Peroxidation and Apoptosis, and Improves Survival in Rat Malignant Glioma. H. VIITA, A. PACHOLSKA, F. AHMAD, J. TIETÄVÄINEN, J. NAARALA, A. HYVÄRINEN, T. WIRTH, S. YLÄ-HERTTUALA (*Kuopio; Joensuu, Finland*)

Identification of Four Isoforms of Aldolase B Down-regulated in Hepatocellular Carcinoma Tissues by Means of Two-dimensional Western Blotting. Y. WANG, Y. KURAMITSU, M. TAKASHIMA, Y. YOKOYAMA, N. IIZUKA, T. TAMESA, I. SAKAIDA, M. OKA, K. NAKAMURA (*Ube, Japan*)

Effects of Polo-like-kinase-1-inhibitor BI 2536 in Squamous Cell Carcinoma Cell lines of the Head and Neck- first In Vitro Results. J. WAGENBLAST, D. HIRTH, L. THRON, C. ARNOLDNER, M. DIENSTHUBER, T. STÖVER, M. HAMBKE (*Frankfurt am Main, Germany; Vienna, Austria*)

Expression Patterns and Potential Action of the Calcium Transport Genes *Trpv5*, *Trpv6*, *Ncx1* and *Pmca1b* in the Canine Duodenum, Kidney and Uterus. J.-A. KIM, H. YANG, I. HWANG, E.-M. JUNG, K.-C. CHOI, E.-B. JEUNG (*Chungbuk, Republic of Korea*)

Association of IGF Axis Hormones with Waist-to-Hip Ratio Varies by Physical Activity. K.H. SCHMITZ, D. XIE, V. TEAL, R. BALLARD-BARBASH, D. BERRIGAN (*Philadelphia, PA; Bethesda, MD, USA*)

Post-operative Corticosterone Levels in Plasma and Feces of Mice Subjected to Permanent Catheterization and Automated Blood Sampling. R. SUNDBOM, K.R. JACOBSEN, O. KALLIOKOSKI, J. HAU, K.S.P. ABELSON (*Uppsala, Sweden; Copenhagen, Denmark*)

Familial Hodgkin's Lymphoma in Scandinavia. V. JØNSSON, H. AWAN, E. NYQUIST, M. MAISENHØLDER, T.B. JOHANNESSEN, B. LY, G.E. TJØNNFJORD (*Oslo, Norway*)

Repair of Postauricular Defects Using a New Technique: The Swallowtail Flap. C. MONARCA, M. MARUCCIA, F. PALUMBO, N. SCUDERI (*Rome, Italy*)

Adipocyte-derived Factor as a Modulator of Oxidative Estrogen Metabolism: Implications for Obesity and Estrogen-dependent Breast Cancer. H.L. BRADLOW, D.W. SEPKOVIC, N. TELANG, R. TIWARI (*New York, NY, USA*)

No Cytomegalovirus Detected in the Gastrointestinal Tract of Patients with Active Crohns Disease. M.T. AARNIO, J.P. BÖHM, K.P. NUORVA, R.I. PITKÄNEN, T.H. KUOPIO, M.E. VOUTILAINEN (*Jyväskylä, Finland*)

Colon Cancer Vaccines: An Update (Review). E. MERIKA, M.W. SAIF, A. KATZ, C. SYRIGOS, M. MORSE (*London, UK; Haven, CT; Durham, NC, USA; Athens, Greece*)

Animal Models of N-Methyl-N-Nitrosourea-induced Mammary Cancer and Retinal Degeneration with Special Emphasis on Therapeutic Trials (Review). A. TSUBURA, OY.-C. LAI, H. MIKI, T. SASAKI, N. UEHARA, T. YURI, K. YOSHIZAWA (*Moriguchi, Osaka, Japan*)

Canine Mammary Tumours as a Model to Study Human Breast Cancer: Most Recent Findings (Review). F.L. QUEIROGA, T. RAPOSO, M.I. CARVALHO, J. PRADA, I. PIRES (*Vila Real, Portugal*)

Metastatic Potential of Orthotopic and Heterotopic Models Imaged by GFP and RFP Protein (Review). V. BOBEK, K. KOLOSTOVA, D. PINTEROVA, M. BOUBELIK, R. GURLICH, R.M. HOFFMAN (*Prague, Czech Republic; San Diego, CA, USA*)

Serotonin Transporter Polymorphism in Major Depressive Disorder (MDD), Psychiatric Disorders, and in MDD in Response to Stressful Life Events: Causes and Treatment with Antidepressant (Review). A. DANIELE, R. DIVELLA, A. PARADISO, V. MATTIOLI, F. ROMITO, F. GIOTTA, P. CASAMASSIMA, M. QUARANTA (*Bari, Italy*)

In Vivo Research Using Early Life Stage Models (Review). R. SEABRA, N. BHOGAL (*Nottingham, UK*)

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● Selection of Recent Articles

Autologous Stem Cell Transplantation: Leukapheresis Product has Anti-angiogenic Effects *In Vivo* Correlating with Neutrophil-derived VEGFR1. A. LUETHY, F. STENNER, C. LOHRI, C. MULLER, P. SAMARAS, R. STEINER, M. VAN DEN BROEK, A. MISCHO, C. RENNER, A. KNUTH, C. RUEGG, R.H. WENGER, M. ZWEIFEL (Zurich; Fribourg, Switzerland)

TGF- β Regulation of Focal Adhesion Proteins and Motility of Premalignant Oral Lesions via Protein Phosphatase 1. J.E. WALSH, M.R. YOUNG (Charleston, SC, USA)

Angiogenesis Quantification in Breast Cancer by Automated Vessel Identification in CD34 Immunohistochemical Sections. L.T.G. MIKALSEN, H.P. DHAKAL, Ø.S. BRULAND, J.M. NESLAND, D.R. OLSEN (Oslo; Bergen, Norway)

Selective Gelatinase Inhibitor Peptide is Effective in Targeting Tongue Carcinoma Cell Tumors *In Vivo*. J. SUOJANEN, J. REUNANEN, S.-T. VILEN, P. NYBERG, P. HEIKKILÄ, O. PENATE-MEDINA, P.E.J. SARIS, J. HAGSTRÖM, T. SORSA (Helsinki; Oulu, Finland; New York, NY, USA)

Acquired Drug Resistance to Vascular Endothelial Growth Factor Receptor 2 Tyrosine Kinase Inhibitor in Human Vascular Endothelial Cells. T. ARAO, K. MATSUMOTO, K. FURUTA, K. KUDO, H. KANEDA, T. NAGAI, K. SAKAI, Y. FUJITA, D. TAMURA, K. AOMATSU, F. KOIZUMI, K. NISHIO (Osaka- Sayama; Tokyo, Japan)

Synergistic Activity of Histone Deacetylase and Proteasome Inhibition Against Pancreatic and Hepatocellular Cancer Cell Lines. J.L. SPRATLIN, T.M. PITTS, G.N. KULIKOWSKI, M.P. MORELLI, J.J. TENTLER, N.J. SERKOVA, S.G. ECKHARDT (Aurora, CO, USA; Edmonton, AB, Canada)

Cytotoxicity of Chalcone Derivatives towards Glioblastoma. P. CHAMPELOVIER, M. MININNO, E. DUCHAMP, E. NICOLLE, V. CURRI, A. BOUMENDJEL, J. BOUTONNAT (Grenoble, France)

A Rapid Imageable *In Vivo* Metastasis Assay for Circulating Tumor Cells. R.S. MENEN, E. PINNEY, K. KOLOSTOVA, V. BOBEK, A. SUETSUGU, N. ZHANG, M. BOUVET, R.M. HOFFMAN (San Diego; Oakland, CA, USA; Prague, Czech Republic)

Loss of p27^{KIP1} Expression in Fully-staged Node-negative Breast Cancer: Association with Lack of Hormone Receptors in T1a/b, but not T1c Infiltrative Ductal Carcinoma. D. MIRCHANDANI, D. ROSES, G. INGHIRAMI, A. ZELENIUCH-JACQUOTTE, J. CANGIARELLA, A. GUTH, R.A. SAFYAN, S. FORMENTI, M. PAGANO, F. MUGGIA (New York, NY, USA)

Clinicopathological Study of Poorly Differentiated Colorectal Adenocarcinomas: Comparison between Solid-type and Non-solid-type Adenocarcinomas. K. KOMORI, Y. KANEMITSU, S. ISHIGURO, Y. SHIMIZU, T. SANO, S. ITO, T. ABE, Y. SENDA, K. MISAWA, Y. ITO, N. UEMURA, T. KATO (Nagoya; Aichi, Japan)

Expression Status of Ribonucleotide Reductase Small Subunits hRRM2/p53R2 as Prognostic Biomarkers in Stage I and II Non-small Cell Lung Cancer. N.-Y. HSU, J.-Y. WU, X. LIU, Y. YEN, C.-Y. CHEN, M.-C. CHOU, C.-H. LIN, H. LEE, Y.-W. CHENG (Taichung; Hsinchu, Taiwan, ROC; Duarte, CA, USA)

Oxaliplatin Scale and National Cancer Institute-Common Toxicity Criteria in the Assessment of Chemotherapy-induced Peripheral Neuropathy. A.-L. KAUTIO, M. HAANPÄÄ, H. KAUTIAINEN, A. LEMINEN, E. KALSO, T. SAARTO (Helsinki; Jyväskylä; Tampere, Finland)

Effect of Tamoxifen or Anastrozole on Steroid Sulfatase Activity and Serum Androgen Concentrations in Postmenopausal Women with Breast Cancer. S.J. STANWAY, C. PALMIERI, F.Z. STANCZYK, E.J. FOLKERD, M. DOWSETT, R. WARD, R.C. COOMBES, M.J. REED, A. PUROHIT (London, UK; Los Angeles, CA, USA)

Rho Kinase Proteins—Pleiotropic Modulators of Cell Survival & Apoptosis (Review). C.A. STREET, B.A. BRYAN (Worcester, MA; El Paso, TX, USA)

The Roles of Cytochrome P450 Enzymes in Prostate Cancer Development and Treatment (Review). T.C. CHEN, T. SAKAKI, K. YAMAMOTO, A. KITTAKA (Boston, MA, USA; Toyama; Tokyo; Kanagawa, Japan)

Cell-free DNA in the Circulation as a Potential Cancer Biomarker (Review). C. KOHLER, Z. BAREKATI, R. RADPOUR, X.Y. ZHONG (Basel, Switzerland)

KRAS- induced Actin- interacting Protein: A Potent Target for Obesity, Diabetes and Cancer (Review). T. FUJIMOTO, S. SHIRASAWA (Fukuoka, Japan)

The Mutational Profile of Sporadic Epithelial Ovarian Carcinoma (Review). S. KALAMANATHAN, V. BATES, R. LORD, J.A. GREEN (Liverpool; Wirral, Merseyside, UK)

Full Myeloablative Conditioning and an Unrelated HLA Mismatched Donor Increase the Risk for BK Virus-positive Hemorrhagic Cystitis in Allogeneic Hematopoietic Stem Cell Transplanted Patients (Review). T. DALIANIS, P. LJUNGMAN (Stockholm, Sweden)

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