

9<sup>th</sup> International Conference  
**"Drug and Gene-based Therapeutics"**  
September 2-8, 2006  
Conference page: [www.gtmb.org](http://www.gtmb.org)

Organized by Teni Boulikas and the Editors of  
Cancer Therapy

Gene Therapy and Molecular Biology

84 Confirmed speakers by August 31, 2006



**Capsis Beach Hotel & Sofitel Capsis Palace Hotel**

(Five star, DeLuxe)  
Agia Pelagia (near Heraklion) island of Crete, Greece

**Conference Secretariat:**

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**Co-organizers:**

Babak Alizadeh, Ph.D, Senior Director, B-Bridge International, Sunnyvale, CA

Vicki Brower, Medical writer, Nature Medicine, Journal of the National Cancer Institute, European Molecular Biology Organisation (EMBO) Reports, and Genetic Engineering News

## Sessions for 2006

2 September 3 September	MINOS ROOM	Nanotechnology 1: Polymers in Drug Delivery Nanotechnology 2: Liposomes in Gene & Drug Delivery Nanotechnology Signal transduction pathways and drug discovery Stem Cells and Regenerative Medicine <b>Cancer</b> Gene Therapy of Cancer
4 September 5 September	MINOS ROOM	<b>Cancer</b> Clinical Trials & New Drugs in Cancer Clinical Trials Using Gene Therapy Gynecological cancers Platinum Drugs Strategies for Gene Therapy of Cancer. Anticancer genes Immunotherapy / Vaccines / Monoclonal antibodies Cardiovascular, AIDS, Arthritis New Anticancer Drugs Small Interfering RNA (siRNA)/ RNAi / miRNA Viral Gene Delivery
7 September 8 September	MINOS ROOM	Antisense / Ribozymes / Aptamers / RNA / Gene Correction <b>Business Conference (Funding Novel Technologies)</b> Cell Therapy, Tissue Engineering, Transplantation Emerging Technologies in Biotech and Pharmaceutical Industry Gene Expression, DNA Repair & Replication, Chromatin, Nuclear Matrix Genomics, Arraying, Gene & Drug Discovery, Gene function and disease Panel Discussion: The Future of Drug and Gene Delivery Signal Transduction Therapy, Cell cycle control, Apoptosis Dermatological Therapy Postgraduate Students' oral presentations
		Posters

**Wednesday 6 September 2006** No Lectures. Excursion provided by the organizers.

We plan to reserve spaces in advance in a supefast boat to Santorini. Please make also your choice in advance Possibilities:

1. Santorini by Boat, Dinner on Santorini
2. Museum/Knossos Palace
3. Rethymnon/Hania

## THE PROGRAM AT A GLANCE

Saturday 2 September 2006

Registration starts: 9AM

Welcome reception (Provided by the organizers): 14:00 to 15:00 h

### *Afternoon*

Welcome remarks

15:00 **Boulikas, Teni, Ph.D**, Conference Organizer

**Nanotechnology 1: Polymers in Drug Delivery**

OPENING LECTURE

15:30 **Boulikas, Teni**, (45 min) Editor, Cancer Therapy; Editor, Gene Therapy & Molecular Biology, Founder and Chairman of the Board, Regulon, Inc. Mountain View, California, USA and Athens, Hellas: "Anticancer drugs and the Pharmaceutical World"

PLENARY LECTURE

16:30 **Kim, Sung Wan**, (45 min) University of Utah College of Pharmacy, USA "PEI modification for the delivery of antiangiogenic and IL-12 plasmids"

17:15 **Coffee Break**

PLENARY LECTURES

17:30 **Lundstrom, Kenneth**, Flamel Technologies, France: "MEDUSAR: A polymer-based system for drug delivery"

18:15 **Miller, Andrew D**, (20 min) Imperial College London, UK: "Synthetic, self assembly ABCD nanoparticles; nanomedicine solutions for gene therapy applications?"

18:35 **End of Session**



Sunday 3 September 2006

### *Morning*

**Nanotechnology 2: Liposomes in Gene & Drug Delivery**

PLENARY LECTURE

9:00 **Paleos, Constantinos**, (45 min) NSR Demokritos, Greece: "Developing and applying a drug delivery model for liposomal and dendritic multifunctional nanoparticles"

9:45 **Ueoka, Ryuichi**, Sojo University, Japan "Chemotherapy with Hybrid Liposomes without Drugs"

10:00 **de Lima, Maria Conceição**, (20 min) University of Coimbra, Portugal: "Protein-associated lipoplexes as promising systems for application in gene therapy"

10:20 **Nishiyama, Nobuhiro**, (20 min) The University of Tokyo, Japan: "Design of Polymeric Micellar Nanocarriers for Drug and Gene Delivery"

10:40 **Coffee Break**

**Nanotechnology**

11:00 **Koul, Hari**, University of Colorado School of Medicine, USA: "*In-vivo* gene delivery and expression into corpus cavernosum using a non-viral, linear polyethylenimine gene delivery system: a novel application"

11:15 **Sinner, Frank**, Institut für Medizinische Systemtechnik und Gesundheitsmanagement, Germany: "New highly efficient, multifunctional nanoparticle for diagnostics" **CANCELLED**

**Cancer**

**Gene Therapy of Cancer**

PLENARY LECTURE

12:00 **Jans, David A.**, (45 min) Monash University, Australia: "Tumor-specific nuclear targeting: promises for anti-cancer therapy?"

12:45 **Günzburg, Walter H.**, University of Veterinary Medicine, Austria: " $\lambda$ -holin: a new therapeutic gene to treat tumour cells"

REPLACED BY **Christine Hohenadl**

13:00 **Fedier, André**, (20 min) University Hospital Zurich, Switzerland: "The Histone Deacetylase Inhibitors SAHA and TSA as potential inducers of a drug resistance phenotype in tumor cells"

13:20 **Dozmorov, Igor**, Oklahoma Medical Research Foundation, USA: "Hypervariable genes as potential targets for therapy"

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13:35 **End of Session, Lunch on your own**

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## Afternoon

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### Stem Cells and Regenerative Medicine

15:00 **Sung, Young Chul**, Pohang University of Science and Technology, Republic of Korea: "Strategies for optimizing HBV therapeutic DNA vaccine against chronic hepatitis B"

15:15 **Tcherepanova, Irina**, Argos Therapeutics Inc., USA: "Novel customized DC based immunotherapy tailored to the infecting patient's HIV: from conception to clinic"

15:30 **Burt, Richard**, Northwestern University School of Medicine, USA: "Stem cell transplantation for autoimmune diseases"

### Signal transduction pathways and drug discovery

15:50 **Wheeler, Christopher J**, (20 min) Maxine Dunitz Neurosurgical Institute, USA: "T cell activity in age-dependent glioma outcome, invasiveness, treatment efficacy and genetics"

16:10 **Wallis, Robert**, University of Medicine and Dentistry of New Jersey, USA: "Adjunctive immunotherapy for tuberculosis: Targeting the granuloma"

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16:25 **Coffee Break**

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### Signal transduction pathways and drug discovery

17:00 **Tuohimaa, Pentti**, University of Tampere, Finland: "Calcidiol and cancer"

17:15 **Vesely, David L.**, University of South Florida health Sciences Center/J.A. Haley Veterans Medical Center, USA: "Cardiac Hormones: Dramatic anticancer effects"

17:30 **Shishido, Tomoyuki**, Nara Institute of Science and Technology, Japan: "Roles of c-Abl and p53 in regulation of anchorage-independent growth"

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17:45 **End of Session**

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Dinner provided by the organizers with Live Hellenic Music



**Monday 4 September 2006**

*Morning*

**Cancer**

**Clinical Trials Using Gene Therapy**

9:00 **Thabrew, Ira**, University of Kelaniya, Ragama, Sri Lanka: "Experimental evaluation of the anti-hepatocarcinogenic potential of a Sri Lankan herbal remedy"

**Strategies for Gene Therapy of Cancer. Anticancer genes**

9:30 **Felsher, Dean W.**, (20 min) Stanford University School of Medicine, USA: "Mechanisms of oncogene addiction"

**Platinum Drugs**

9:50 **Tsimberidou, Apostolia-Maria**, The University of Texas M. D. Anderson Cancer Center, USA "Combination of Oxaliplatin, Fludarabine, Cytarabine, and Rituximab in Patients with Richter's Syndrome and Fludarabine-Refractory Chronic Lymphocytic Leukemia"

10:05 **Sugawara, Fumio**, Tokyo University of Science, Japan: "A new class of radiosensitizer, Sulfo-Quinoyosyl-Acyl-Glycerol (SQAG), is a strong VEGF trap"

10:20 **Brabec, Viktor**, Academy of Sciences of the Czech Republic, Czech Republic "Transplatin is Cytotoxic When Photoactivated: Enhanced Formation of DNA Cross-links"

**10:35 Coffee Break**

**Gynecological cancers**

**PLENARY LECTURE**

11:00 **Seth, Arun**, (45 min) Sunnybrook & Women's College Health Sciences Centre, Canada: "E3 ligase for breast cancer" **CANCELLED**

**Replaced by Karabatzaki, Mria**, Regulon, AE. Athens, Hellas: "Phase III clinical studies on Lipoplatin"

11:45 **Buller, Richard E.**, Glaxo Smith Kline, USA: "Phase III trial of p53 gene replacement with SCH5800 in newly Diagnosed ovarian cancer"

12:00 **Bauknecht, Thomas**, Medical Department Oncology, Lilly Deutschland GmbH, Germany: "Report of trials in ovarian cancer cell lines to chemotherapy, induced resistance and investigation of PKC $\beta$  inhibition by enzastaurin (a Lilly product) as a possible modulator of apoptosis and angiogenesis"

12:15 **Alahari, Suresh**, Louisiana State University Health Sciences Center, USA: "Nischarin, a potential tumor suppressor of breast cancer"

12:30 **Al Moustafa, Ala-Eddin**, Oncology Department/McGill University, Canada: "High-risk HPVs in Human breast carcinogenesis and metastasis?"

12:45 **Faleiro-Rodrigues, Cristina**, Instituto Português de Oncologia Francisco Gentil, Portugal: "The prognostic significance of E-cadherin and  $\beta$ -catenin expression in ovarian carcinomas"

**13:00 End of Session, Lunch on your own**



*Afternoon*

**Small Interfering RNA (siRNA)/ RNAi / miRNA**

15:00 **Takeshita, Fumitaka**, National Cancer Center Research Institute, Japan: "Efficient siRNA delivery to metastatic tumors"

15:15 **Schmittgen, Thomas D.**, (20 min) The Ohio State University, USA: "microRNA as a potential therapeutic target in pancreatic cancer"

15:35 **Alizadeh, Babak**, B-Bridge International Inc, USA: "Off-targets, Optimal Design of siRNA Molecules and HTS Analysis Tools" **CANCELLED**

**15:50 Coffee Break**

**Clinical Trials & New Drugs in Cancer**

16:10 **Terpos, Evangelos**, (20 min) Imperial College of Science, UK: "Pathogenesis of bone disease in multiple myeloma: clinical implications"

16:30 **Hofmann, Christian**, (20 min) APIT Laboratories GmbH, Germany: "APIT a new anticancer drug from the sea"

**Immunotherapy / Vaccines / Monoclonal antibodies**

16:50 **Platsoucas, Chris D**, (20 min) Temple University School of Medicine, USA: "Human Autoimmune Diseases are Specific Antigen-Driven T-cell Diseases: Identification of the Antigens"

17:10 **Belimezi, Maria**, Regulon, SA, Greece: "Growth inhibition of breast cancer cell lines overexpressing Her2/neu by a novel internalized fully human Fab antibody fragment/Phage display Tehnology"

17:25 **Tesar Michael**, MorphoSys AG, Germany: "High affinity monoclonal antibodies for immunotherapy from the Human Combinatorial Antibody Library HuCAL GOLD®"

17:40 **Peknicova, Jana**, Institute of Molecular Genetics AS CR, Czech Republic: "Application of monoclonal antibodies against human sperm proteins in assisted reproduction"

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**18:00 End of Session**

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**Dinner on your own**  
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**Tuesday 5 September 2006**

*Morning*

**Brain Disease**

PLENARY LECTURE

9:00 **Raizada, Mohan K.**, (45 min) University of Florida, USA: "Potential of Gene Therapy for Hypertension and Cardiovascular Disease"

**Cardiovascular, AIDS, Arthritis**

9:45 **O'Brien, William A.**, The University of Texas Medical Branch, USA: "A Critical Role for CD63 in HIV Replication"

**10:00 Coffee Break**

**New Anticancer Drugs**

PLENARY LECTURE

10:45 **Boulikas, Toni**, (45 min) Editor, Cancer Therapy; Editor, Gene Therapy & Molecular Biology, Founder and Chairman of the Board, Regulon, Inc. Mountain View, California, USA and Athens, Hellas: "Liposomal cisplatin (Lipoplatin) and liposomal oxaliplatin (Lipoxal): A clinical overview"

**Viral Gene Delivery**

PLENARY LECTURE

11:30 **Mazarakis, Nicholas D.**, (45 min) Oxford BioMedica, UK: "Lentiviral Gene Therapy for CNS Disorders"

12:15 **Anson, Donald D.**, (20 min) Women's and Children's Hospital, Australia: "Lentiviral Mediated Gene Therapy for Cystic Fibrosis"

12:35 **Lundstrom, Kenneth**, Flamel Technologies, France: "Alphavirus vectors in gene therapy and neuroscience"

**13:00 End of Session, Lunch on your own**



*Afternoon*

**Viral Gene Delivery (continue)**

15:00 **Roberts, Michael L.**, (45 min) Regulon SA, Greece: "Developing Hybrid Viral Vectors for Gene Therapy"

15:45 **Taoufik, Era**, Pasteur, Hellas, Greece: "Using Semliki Forest Viral Vectors to Study Mechanisms of Neuroprotection"

**CANCELLED**

**Gynecological cancers**

16:00 **Fults, Daniel W.**, University of Utah, USA: "Somatic cell gene transfer to navigate signaling pathways in a mouse model of medulloblastoma"

16:15 **Hu, Yanfen**, University of Virginia, USA: "Modulation of aromatase expression by BRCA1: a possible mechanism of tissue-specific tumor suppression"

**16:30 Coffee Break**

**Gynecological cancers (continue)**

17:00 **Skvortsova, Ira**, Innsbruck Medical University, Austria: "New Oncology Strategy: Targeting therapeutics in combination with radiotherapy"

17:15 **Christopoulou, Athina**, "St Andrews" General Hospital, Greece: "Chemoprevention in breast cancer"

17:30 **Crépin, Michel**, Hôpital Saint-Louis and Université de Paris, France: "A new phenyl-bisphosphonate (BP7033) inhibits breast cancer cell invasion by inhibiting Rho-cell signalling pathway and CXCR-4 expression in two breast cancer cell phenotypes"

**17:45 End of Session**

**20h-22h: Dinner provided by the organizers with Live Hellenic Music**



**Wednesday 6 September 2006**

No Lectures. Excursion provided by the organizers.

Possibilities:

1. Santorini by Boat, Dinner on Santorini
2. Museum/Knossos Palace
3. Rethymnon/Hania



**Thursday 7 September 2006**

## **Business Conference**

### **Funding Novel Technologies**

Executives present technologies and visions. Open to the general audience.

#### *Morning*

Cell Therapy, Tissue Engineering, Transplantation

##### PLENARY LECTURE

9:15 **Chang, Thomas Ming Swi**, (45 min) McGill University, Canada: "Therapeutic applications of polymeric artificial cells"

##### Emerging Technologies in Biotech and Pharmaceutical Industry

10:00 **Reiersen, Herald**, Affitech A/S, Norway: "AffiSelect – A PCR based screening platform to identify human antibodies targeting cancer cells"

10:15 **Draghia, Ruxandra**, (20 min) ADViSYS, Inc, USA: "Clinical implications of variable muscle resistance between and during electroporation pulses"

##### 10:35 Coffee Break

##### Antisense / Ribozymes / Aptamers / RNA / Gene Correction

10:50 **Takenaka, Akio**, (20 min) Tokyo Institute of Technology, Japan: "Structural basis of antigene and antisense"

11:10 **Nakamura, Yoshikazu**, University of Tokyo, Japan: "Aptamer as RNA-made super-antibody for therapeutics"

##### Signal Transduction Therapy, Cell cycle control, Apoptosis

11:25 **Dediu, Mircea**, (20 min) Institute of Oncology Bucharest, Romania: "EGFR tyrosine kinase inhibitors in NSCLC: we had spotted the target, we've got the weapon, but we are still confused in the battle-field"

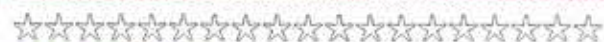
11:45 **Williams, Gwyn Thomas**, (20 min) Keele University, UK: "Identification of Apoptosis-controlling Genes by Functional Expression Cloning"

12:05 **Alemany, Susana**, Instituto de Investigaciones Biomédicas, CSIC, Spain: "Activation of Erk1/Erk2 by the kinase Cot"

12:20 **Koul, Hari**, University of Colorado School of Medicine, USA: "ERK1/2 MAP kinases: Novel targets in Prostate Cancer?"

12:35 **Shears, Stephen**, (20 min) NIEHS/NIH, USA: "Can intervention in inositol phosphate signaling improve therapy for cystic fibrosis?"

##### 13:00 End of Session, Lunch on your own



#### *Afternoon*

### **16:00-18:30 Panel Discussion: The Future of Drug and Gene Delivery**

Co-organizers:

**Babak Alizadeh, Ph.D.**, Senior Director, B-Bridge International, Sunnyvale, CA

**Vicki Brower**, Medical writer



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**18:30 End of Session**

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**Dinner on your own**



Friday 8 September 2006

## Business Conference

### Funding Novel Technologies

#### Partnerships in Biotechnology and Pharmaceutical Industry

An opportunity for partnerships and business deals.

Executives present technologies and visions. After presentations mutually-interested executives can meet privately in small rooms (restricted to the general audience).

### Morning

#### Genomics, Arraying, Gene & Drug Discovery, Gene function and disease

9:00 **Saab, Yolande B.**, Lebanese American University, Lebanon: "Angiotensin Converting Enzyme gene as a Genetic Marker"

9:15 **Pravenc, Michal**, Czech Academy of Sciences, Czech Republic: "Integrated transcriptional profiling and linkage analysis for disease gene identification"

9:30 **Devarajan, Prasad**, Cincinnati Children's Hospital Medical Center, USA: "Proteomics for personalized and predictive medicine"

#### 9:45 Coffee Break

#### Genomics, Arraying, Gene & Drug Discovery, Gene function and disease

10:15 **Salmons, Brian**, Austrianova Biotechnology GmbH, Austria: "Tumour selective replicating murine leukaemia virus vectors"  
REPLACED BY **Matthias Renner**

10:30 **Kido, Hiroshi**, (20 min) The University of Tokushima, Japan: "New approaches for the treatment of influenza virus infection by an enhancement of mucosal immunization and by anti-inflammatory drugs"

10:50 **Omidi, Yadollah**, Tabriz University of Medical Sciences, Iran: "Genomic impacts of non-viral cationic vectors for gene therapy"

#### Gene Expression, DNA Repair & Replication, Chromatin, Nuclear Matrix

11:05 **Leffak, Michael**, Wright State University, USA: "Cell Models of DNA Replication-Related Disease"

11:20 **Haegeman, Guy**, (20 min) Ghent University, Belgium: "Epigenetic regulation of IL6 gene expression"

11:40 **Mermod, Nicolas**, (20 min) EPFL SB LBTM, Switzerland: "High level transgene expression in mammalian cell lines using epigenetic regulators and an iterative transfection method"

#### 12:00 End of Session, Lunch on your own



### Afternoon

#### Dermatological Therapy

15:00 **Alakloby Omar**, King Faisal University, Saudi Arabia: "Cytotoxic agents used in skin cancer and other skin diseases"

15:30 **Haegeman, Guy**, (20 min) Ghent University, Belgium: "Anti-inflammatory potential of plant-derived compounds"

15:50 **Valacchi, Giuseppe**, UC Davis School of Medicine, USA: "Modulation of skin oxidative stress markers by environmental stressors difference between young and old"

#### 15:50 Coffee Break

### New Sessions, FOR POSTGRADUATE STUDENTS' oral presentations

16:45

17:00

17:15

Announcement of next year's meeting

18:00 End of Conference

20h-24h: Gala Dinner provided by the organizers with Live Hellenic Music

## Posters

**Tani, Katsuko**, Tokyo University of Pharmacy and Life Science, Japan: "Different roles of Abi (Abl interactor) family in the regulations of c-Abl tyrosine kinase"

**Qi, Yi-peng**, State Key Laboratory of Virology, P. R. China: "Immune analysis on mtHSV mediated tumor therapy in HSV-1 seropositive mice"

**Sideratou, Zili**, NSRF Demokritos, Aghia Paraskevi, Attiki: "Synthesis and characterization of functional hyperbranched polyether polyols as prospected gene carriers"

**Takenaka, Akio**, Tokyo Institute of Technology, Tokyo, Japan: "Structural study of a diagnostic protein, uricase complexed with real substrate and product"

**Kaspárková, Jana**, Academy of Sciences of the Czech Republic, Czech Republic: "Molecular mechanisms of antitumor effects of a new platinum(IV) drug"