Workshop on Immunopathological Diseases and Therapeutics



UCLA Jonsson Comprehensive Cancer Center



UNIVERSITY OF CATANIA Department of Biomedical Sciences

First International Workshop on

Prognostic and Therapeutic Roles of Yin Yang 1 in Cancer

May 24 - 26, 2009

Organizers:

Benjamin Bonavida, Ph.D. (UCLA, Los Angeles, CA, USA)

Franca Stivala, M.D., Ph.D. (University of Catania, Catania, Italy)

University of Catania - "Villa Citelli" Via Tomaselli, 31 - Catania, Italy

Workshop Secretariat



c/o Department of Biomedical Sciences, University of Catania Address: Via Androne, 83 - 95123 Catania, Italy Phone: +39 095 313429; Fax: +39 095 315257 Email: workshopyy1@gmail.com

Dear Colleague,

Welcome to Catania for having join us at the First International Workshop on 'Prognostic and Therapeutic Roles of Yin Yang 1 in Cancer''.

The transcription factor Yin Yang 1 (YY1) is known to have a fundamental role in normal biological processes such as embryogenesis, differentiation, regulation and cell proliferation. YY1 exerts its effects on genes involved in these processes via its ability to initiate, activate, or repress transcription depending upon the context in which it binds.

The role of YY1 in cancer has not been examined until recently. Recent findings demonstrated that the expression level of YY1 in tumors plays several roles in cancer progression and response to therapeuticinduced apoptosis. In addition, YY1 has been implicated as a prognostic biomarker in several cancers. Hence, it became evident that the regulation of YY1 expression in cancer and the development of novel therapeutics targeting YY1 are novel avenues in the fight against cancer. Therefore, an international workshop has been conceived to provide a forum for discussion and integration of findings by experts in the field. This workshop will focus on the biochemistry, transcription, gene regulation, involvement in resistance and metastasis, prognostic significance and novel targeted therapies.

Franca Stivala, M.D., Ph.D. Benjamin Bonavida, Ph.D.

General Information

Website address: http://www.unict.it/workshopyy1

Workshop site

Villa Citelli, Via Tomaselli, 31 - Catania, Italy. It is located in the center of Catania, 5 km from the airport. From the airport you may easily reach the workshop site and/or the hotels by taxi. Catania enjoys good weather conditions during this period. Average temperature 25°C.

Highlights of Catania

For detailed information, please visit the suggested websites listed below or ask to Workshop Secretariat: http://www.bestofsicily.com/catania.htm http://www.geoetnaexplorer.it/

Workshop Organizers

B. Bonavida, Ph.D. (UCLA, CA, USA) F. Stivala, M.D., Ph.D. (Catania, Italy)

Scientific Advisory Committee

M.Z. Atassi (Houston, TX, USA)
J. Berenson (Los Angeles, CA, USA)
B. Bonavida (Los Angeles, CA, USA)
N. D'Alessandro (Palermo, Italy)
T. Efferth (Heidelberg, Germany)
J. McCubrey, (Greenville, NC, USA)
C. Napoli (Naples, Italy)
F. Nicoletti (Catania, Italy)
D. Spandidos (Crete, Greece)
K. Umezawa (Yokohama, Japan)

Local Organizers

G. Iacona (Catania, Italy)

- M. Libra (Catania, Italy)
- G. Malaponte (Catania, Italy)

L. Malaguarnera (Catania, Italy)

M.C. Mazzarino (Catania, Italy)

F. Nicoletti (Catania, Italy)

S. Travali (Catania, Italy)

The organizer acknowledge the contribution of the Scientific advisory Committee.

The organizing committee gratefully acknowledges the generous support and participation of the following institutions and companies:



Provincia Regionale di Catania



Università degli Studi di Catania

Facoltà di Medicina e Chirurgia



Ordine dei Medici Chirurghi e Odontoiatri di Catania

Lega Italiana per la Lotta contro i Tumori Sezione Provinciale di Catania



Roche



Astrazeneca



Harlan



Ontario



Ø→>>>→

Neogenics, Inc.

BiogenIdec, Inc.

Speakers

M. Atchison (Pennsylvania, USA) S. Baritaki (Los Angeles, CA, USA) R. Bordonaro (Catania, Italy) A. Buonadonna (Aviano, Italy) B. Bonavida (Los Angeles, CA, USA) RJ. Byers (Manchester, UK) M. Caruso (Catania, Italy) N. D'Alessandro (Palermo, Italy) T. Efferth (Heidelberg, Germany) H. Garban (Los Angeles, CA, USA) D. Giuffrida (Catania, Italy) A.R. Jazirehi (Los Angeles, CA, USA) J. Kim (Baton Rouge, USA) M. Libra (Catania, Italy) J.A. McCubrey (Greenville, NC, USA) L. Militello (Los Angeles, USA) C. Napoli (Naples, Italy) M. Pierotti (Milan, Italy) D. Seligson (Los Angeles, CA, USA) K. Umezawa (Yokohama, Japan) J.C. Willey (Toledo, OH, USA)

Chairs

- M.Z. Atassi (Houston, Texas, USA)
- B. Bonavida (Los Angeles, CA, USA)
- F. Catalano (Catania, Italy)
- F. Ferraù (Catania, Italy)
- M. Libra (Catania, Italy)
- L. Malaguarnera (Catania, Italy)
- G. Malaponte (Catania, Italy)
- M.C. Mazzarino (Catania, Italy)
- J. McCubrey (Greenville, NC, USA)
- C. Napoli (Naples, Italy)

- F. Nicoletti (Catania, Italy)
- D. Spandidos (Crete, Greece)
- F. Stivala (Catania, Italy)
- A. Veronesi (Aviano, Italy)
- K. Yeung (Toledo, OH, USA)

Discussants

- M.Z. Atassi (Houston, Texas, USA)
- J. Berenson (Los Angeles, CA, USA)
- B. Bonavida (Los Angeles, CA, USA)
- RJ. Byers (Manchester, UK)
- S. Canevari (Milan, Italy)
- F. Catalano (Catania, Italy)
- N. D'Alessandro (Palermo, Italy)
- T. Efferth (Heidelberg, Germany)
- F. Ferraù (Catania, Italy)
- M. Libra (Catania, Italy)
- M.C. Mazzarino (Catania, Italy)
- J. McCubrey (Greenville, NC, USA)
- C. Napoli (Naples, Italy)
- F. Nicoletti (Catania, Italy)
- M. Pierotti (Milan, Italy)
- D. Spandidos (Crete, Greece)
- F. Stivala (Catania, Italy)
- S. Travali (Catania, Italy)
- K. Umezawa (Yokohama, Japan)
- A. Veronesi (Aviano, Italy)
- K. Yeung (Toledo, OH, USA)

Program

Sunday May 24th, 2009

6:00-8:00 pm Opening Ceremony Aula Magna - Palazzo dell'Università

Welcome Address by:

The Rector of the University **Antonino Recca**

The Dean of the Faculty of Medicine and Surgery Francesco Basile

Introduction by the Organizers:

Franca Stivala Benjamin Bonavida

Welcome Cocktail Palazzo dell'Università

Monday May 25th, 2009

8:00-08:30 am	General Introduction F. Stivala; B. Bonavida
8:30-10:00 am	SESSION 1: Biochemistry and gene regulation of YY1 Chairs: Z. Atassi, K. Yeung
	M. Atchison Function of YY1 in PcG Repression and B Cell Biology (20 min)
	J. Kim Genomic Imprinting and Transcription Factor YY1 (20 min)
	H. Garban Yin-Yang 1 (YY1): Genetic Factor, Epigenetic Regulator and More (20 min)
10:00-10:30 am	Discussion and concluding remarks Discussants: Z. Atassi, T. Efferth, K. Yeung, K. Umezawa
10:30-11:00 am	Coffee Break
11:00-12:30 pm	SESSION 2: Role of YY1 in the pathogenesis of cancer Chairs: F. Nicoletti, D. Spandidos
	C. Napoli
	The Role of Yin Yang 1 Protein in Malignancy of the Bone (20 min)
	J. Willey Role of Polymorphic YY1/E2F1 Recognition Site in Regulation of ERCC5 (XPG) DNA Repair Gene and Deter- mination of Risk for Lung Cancer (20 min)
	L. Militello Clinical Significance of Both the Cytoplasmic and Nuclear Overexpression of YY1 in Multiple Myeloma <i>(20 min)</i>
	M. Libra Implication and Prognostic Significance of Yin Yang 1 in Diffuse Large B-cell Lymphoma (20 min)
12:30-1:00 pm	Discussion and concluding remarks Discussants: S. Canevari, C. Napoli, F. Nicoletti, D. Spandidos
1:00-3:00 pm	Lunch

3:00-4:30 pm SESSION 3: Regulation of drug and immune resistance by YY1 in cancer

Chairs: J. McCubrey, K. Umezawa

S. Baritaki

Yin-Yang 1 (YY1) is a Tumor Immune-Suppressor Gene Product (20 min)

T. Efferth

Cytoplasmic and Nuclear Inhibition of YY1 by a Combination Treatment of Malignant B cells by the Anti-Malarial Artesunate and the Anti-CD20 Antibody Rituximab *(20 min)*

B. Bonavida

Clinical Significance of the Inhibition of YY1 Activity and Expression by Therapeutic Anti-Cancer Antibodies *(20 min)*

A.R. Jazirehi

The Direct Role of the microRNA(miR)-29 in the Inhibition of YY1 Expression and Activity and the Reversal of Tumor Cell Resistance to Apoptosis by TRAIL (20 min)

- 4:30-5:00 pm Discussion and concluding remarks Discussants: N. D'Alessandro, M.C. Mazzarino, J. A. McCubrey
- 7:30 pm Dinner

Tuesday May 26th, 2009

8:30-10:00 am SESSION 4: Diagnostic and prognostic roles of YY1 Chairs: F. Stivala, M. Libra

R.J. Byers

YY1 is a Prognostic Marker in Follicular Lymphoma (20 min)

N. D'Alessandro

Alteration of the YY1/RKIP ratio is a frequent molecular event in hepatocellular carcinoma (20 min)

D. Seligson

Prognostic significance of YY1 in prostate Cancer (20 min)

- 10:00-10:30 am Discussion and concluding remarks Discussants: M. Libra, M. Pierotti, F. Stivala
- 10:30-11:00 am Coffee Break
- 11:00-12:30 pm SESSION 5: YY1 as target for therapeutics Chairs: C. Napoli, L. Malaguarnera

K. Umezawa

Clinical Significance of Both the Screening of Transcription Factor Inhibitors and Application to Yin Yang 1 Studies (20 min)

J.A. McCubrey

Rationale for Targeting of YY1 in Drug Resistant Cancers (20 min)

12:30-1:00 pm Discussion and concluding remarks Discussants: S. Travali, R.J. Byers, C. Napoli

1:00-2:30 pm Lunch

SATELLITE SYMPOSIUM 2:30-4:30 pm Lessons to learn from novel therapeutic applications in cancer Chairs: B. Bonavida, F. Ferraù, A. Veronesi, F. Catalano M. Pierotti From molecular modeling to clinical response in targeted therapy of tyrosine Kinase pathways (20 min) P. Casali Gastrointestinal stromal tumors: Novel therapeutic approaches (20 min) M. Caruso Monoclonal Anti-Epidermal Growth Factor Receptor Antibody in ORL Cancer (20 min) A. Buonadonna Efficacy of anti-VEGF and anti-EGFR in Human Colon Cancer (20 min) D. Giuffrida Target Therapy in the breast cancer treatment (20 min) R. Bordonaro New therapeutic strategies for renal cancer (20 min) Discussion and concluding remarks 4:30-5:00 pm Discussants: B. Bonavida, F. Ferraù, A. Veronesi, F. Catalano **Closing remarks** 5:00 pm F. Stivala and B. Bonavida

