

14th International p53 Workshop

Fudan University
Shanghai, China

Table of Contents

Welcome	1
Sponsors	3
Agenda Summary	6
Agenda	7
Speaker Abstracts	14
Poster Session I	87
Poster Session II	145
Poster Session III	198
Author Index	
List of Attendees	
General Information	
Campus, Hotels and Neighborhood Maps	

10:20-12:00AM

Session 3

Crowne Plaza Second Floor Meeting Room **p53 Structure and Function I**

(Chairs: Alan Fersht and Michael Resnick)

10:20-10:45AM

A. Fersht Target Mutant Rescue (S7)

10:45-11:10AM

M. Resnick The Expanding p53 Universe (S8)

11:10-11:30AM

G.P. Zambetti Regulating Nuclear Import by p53 through E124/PIG8 (S9)

11:30-11:45AM

L. Mayo The PTEN/p53/MASPIN Network to Suppress Angiogenesis (S10)

11:45-12:00PM

Z. Xiao IGF-1 Induces Premature Cellular Senescence via p53 Activation (S11)

12:00-2:00PM

Lunch and Poster Session I at Crowne Plaza

2:00-3:40PM

Session 4

Crowne Plaza Second Floor Meeting Room **p53 Structure and Function II**

(Chairs: Wafik El-Deiry and Xinbin Chen)

2:00-2:25PM

W. El-Deiry Targeting Mutant p53 in Cancer Stem Cells (S12)

2:25-2:45PM

X. Chen Identification of ID2 as a Mutant p53-specific Target Gene and Establishment of a Dog Model for the p53 Pathway (S13)

2:45-3:05PM

J. Manfredi p53 Regulates Mitotic Entry and Progression via Effects on Transcription and Protein Stability of Specific Targets (S14)

3:05-3:25PM

S. Lee Identification of p53 Activators with Potent Anti-tumor Activities (S15)

3:25-3:40PM

W. Hu p53 Regulates Maternal Reproduction through Leukemia Inhibitory Factor (S16)

3:40-3:55PM

Coffee Break

3:55-6:05PM

Session 5

Crowne Plaza Second Floor Meeting Room **p53 Regulation: Mdm2, Mdmx and Others**

(Chairs: Moshe Oren and Hua Lu)

3:55-4:20PM

M. Oren Inhibitory Interactions between MDM2 and Ribosomal Protein L26 Regulate p53 Synthesis and Stability (S17)

4:20-4:40PM

H. Lu Activation of p53 via Suppression of MDM2 and MDMX (S18)

- 4:40-5:00PM **A. Jochemsen** Functions and Regulation of MDMX (S19)
- 5:00-5:20PM **J. Chen** ATM Inhibition of MDM2 Oligomerization and p53 Poly-ubiquitylation Is Essential for p53 Activation after DNA Damage (S20)
- 5:20-5:35PM **Z.M. Yuan** Investigation of the MDM2 Acidic Domain for Its Role in p53 Ubiquitination (S21)
- 5:35-5:50PM **S.C. Lin** Axin Is Critical Determinant for Decision between Death and Life upon DNA Damage (S22)
- 5:50-6:05PM **W.G. Zhu** p53 Interacts with NUMB to Inhibit Proliferation of Colon Cancer Cells (S23)
- 6:05-7:30PM Dinner at Crowne Plaza First Floor Cafeteria

7:30-9:45PM

Session 6

Crowne Plaza Second Floor Meeting Room **p53 Regulation: Protein Modifications**

(Chairs: Wei Gu and David Meek)

- 7:30-7:55PM **W. Gu** p53 Regulation via Acetylation and Ubiquitylation (S24)
- 7:55-8:15PM **D. Meek** p53-mediated Down-regulation of PLK1 Expression as Part of the G2/M Checkpoint to DNA Damage (S25)
- 8:15-8:35PM **S. Grossman** Sibling Rivalry: Differential Regulation of p53 by p300 and CBP (S26)
- 8:35-8:55PM **E. Appella** Synthesis and Activity of Selective Inhibitors of WIP1, a Phosphatase that Controls p53 Pathways (S27)
- 8:55-9:15PM **S. Shieh** Stress-induced Signaling Pathways Connecting TTK/hMPS1, ChK2 and p53 (S28)
- 9:15-9:30PM **N. Barlev** Transcriptional Regulation of micro-RNAs by p53 Defines the Outcome of Genotoxic Stress (S29)
- 9:30-9:45PM **Z.K. Lou** DBC1 Negatively Regulates Sirt1 and Potentiates p53 Activity (S30)

Wednesday 10/29/08

7:00-8:30AM Breakfast at Attendees' Own Hotels

8:30-10:15AM

Session 7

Crowne Plaza Second Floor Meeting Room **Regulation of Cell Survival, Death and Others**

(Chairs: Douglas Green and Yanping Zhang)

- 8:30-8:55AM **D. Green** p53, PUMA, and Bcl2 Family Interactions: Covert Direct Activator BH3-only Protein Function Is Revealed by PUMA-mediated De-repression (S31)
- 8:55-9:20AM **Y.P. Zhang** Function and Mechanism of ARF in the Mitochondria (S32)
- 9:20-9:40AM **M. Murphy** The ARF Tumor Suppressor Confers Survival in Response to Metabolic Stress (S33)
- 9:40-10:00AM **Z. Dong** Interaction of p53 and Histone H3 via Different Protein Kinases (S34)
- 10:00-10:15AM **L. Zhang** PUMA as an Essential Mediator in p53-dependent and Independent Apoptosis (S35)
- 10:15-10:30AM Coffee Break

10:30-12:05PM

Session 8

Crowne Plaza Second Floor Meeting Room

In Vivo Function (I)

(Chairs: Scott Lowe and Xin Lu)

- 10:30-10:55AM **S. Lowe** p53-mediated Senescence of Activated Stellate Cells Limits Liver Fibrosis (S36)
- 10:55-11:20AM **G. I. Evan** p53 and Tumor Suppression--the How, the When and the Why (S37)
- 11:20-11:45AM **X. Lu** p53: a Heavily Dictated "Dictator" of Life and Death (S38)
- 11:45-12:05PM **T. Tlsty** Telomere Malfunction Acts through Paracrine Signaling to Condition Adjacent Cells to either Promote or Suppress Malignant Phenotypes (S39)

12:05-2:00PM

Lunch and Poster Session II at Crowne Plaza

2:00-4:25PM

Session 9

Crowne Plaza Second Floor Meeting Room

In Vivo Function (II)

(Chairs: Gigi Lozano and Geoff Wahl)

- 2:00-2:25PM **G. Lozano** Mutant p53 Gain-of-function activities (S40)
- 2:25-2:50PM **T. Mak** The Role of TAp73 and Δ Np73 in Tumor Development (S41)
- 2:50-3:15PM **G. Wahl** Unleashing the Guardian: Developing More Effective p53

Activating Therapies by Targeting MDM2 and MDMX, Its Two Negative Regulators (S42)

3:15-3:35PM **Y. Xu** Genetic Analysis of p53 in Aging (S43)

3:35-3:55PM **L. Attardi** Using Transactivation Domain Mutant Knock-in Mice to Define p53's Mechanism of Action (S44)

3:55-4:10PM **S. Chang** Telomere Dysfunction Suppresses Tumorigenesis in Vivo by Initiating p53-dependent Cellular Senescence (S45)

4:10-4:25PM **U Rodeck** Distinct and Interdependent Functional Roles of N-Terminal p53 Variants in Zebrafish Development (S46)

4:30PM [Bus to a Restaurant](#)

5:30-7:00PM [Dinner](#)

7:00-8:00PM [Bus to the Huang Pu River Port](#)

8:00-9:00PM [Boat Tour on Huang Pu River in the Center of Shanghai City.](#)

9:00-10:00PM Return to Hotels

Thursday 10/30/08

7:00-8:30AM Breakfast at Attendees' Own Hotels

8:30-10:10AM

Session 10

Crowne Plaza Second Floor Meeting Room

p53 Targets

(Chairs: Varda Rotter and Karen Vousden)

8:30-8:55AM

K. Vousden A Role for the p53 Tumor Suppressor Protein in Metabolism (S47)

8:55-9:20AM

V. Rotter Identification and Characterization of p53-associated "Gene Signatures" Involved in Cellular Transformation (S48)

9:20-9:40 AM

S. Benchimol LPIN1, a Novel p53-regulated Gene Induced in Response to Metabolic Stress and DNA Damage (S49)

9:40-9:55 AM

S. Berberich YPEL3, a Novel p53 Regulated Gene with Growth Suppressive Activity (S50)

9:55-10:10AM

A. Budanov The p53-regulated Sestrin Gene Products Inhibit mTOR Signaling (S51)

10:10-10:25AM

Coffee Break

10:25-12:00PM

Session 11

Crowne Plaza Second Floor Meeting Room **p53 in the Clinic and Models**

(Chair: Lin Wu)

10:25-10:50AM **L. Wu** Detection of p53 Mutations in Cancer by the AmpliChip p53 Test, a Microarray-based Resequencing Assay (S52)

10:50-11:10AM **F. Bunz** New Isogenic Models to Discover p53-dependent Therapeutics (S53)

11:10-11:30AM **J.C. Bourdon** Human p53 Isoforms and Cancer (S54)

11:30-11:45AM **K.H. Young** Structural Profiles of TP53 Gene Mutations Predict Clinical Outcomes Lymphoma: An International Collaborative Study (S55)

11:45-12:00AM **Steve Yu** A New Resource to Provide a Full Spectrum of Human p53 Point Mutations in Humanized Mouse Models (S56)

12:00-2:00PM **Lunch and Poster Session III at Crowne Plaza**

2:00-4:50PM

Session 12

p63, p73 and Others

(Chairs: Frank McKeon and Ute Moll)

2:00-2:25PM **F. McKeon** p63: Dual Roles in Female Germline Superiority and Epithelial "Stemness" (S57)

2:25-2:50PM **U. Moll** Tumor Suppressor Properties of p73 in T- and B-cell Lymphomas (S58)

2:50-3:10PM **G. Melino** p63, miRNA, "Stemness" and Skin (S59)

3:10-3:25PM **E. Flores** TAp63 is a Key Regulator of Wound Repair, Stem Cell Maintenance, and Tumor Suppression (S60)

3:25-3:40PM Coffee Break

3:40-3:55PM **Y. Haupt** Regulation of the p53 Activator PML (S61)

3:55-4:10PM **Y. Yin** A Network of p53 and E2F-1 in Controlling Cellular Response to Oxidative Stress (S62)

4:10-4:30PM **F.C. He** PACT is a Negative Regulator of p53 and Essential for Cell Growth and Embryonic Development (S63)

4:30-4:50PM **A. Braithwaite** The Polyproline Domain of p53 Is Required for Apoptosis and for Prevention Function of B Cell Lymphoma (S64)

5:00-6:00PM **Bus to Banquet**

6:30-12:00AM

Banquet with Live Music

Friday 10/31/08

7:00-8:30AM

Breakfast at Attendees' Own Hotels

8:30-11:05PM

Session 13

Crowne Plaza Second Floor Meeting Room

Cancer Therapy

(Chairs: Lubo Vassilev and Shaomeng Wang)

8:30-8:55AM

L. Vassilev Nutlins: p53 Research Tools and Potential Therapeutics (S65)

8:55-9:15AM

S.M. Wang Small-molecule Approach to Reactivate p53 by Blocking the MDM2-p53 Interaction as a New Cancer Therapeutic Approach: Progress and Challenges (S66)

9:15-9:35AM

Y. Sun A Class of Small Molecules that Promote p53 Degradation (S67)

9:35-9:50AM

G. Selivanova Molecular Mechanisms of Preferential Induction of Apoptosis by Pharmacological Reactivation of p53 (S68)

9:50-10:05AM

Coffee Break

10:05-10:20AM

K.G. Wiman Mutant p53 Targeting by Prima-1: From Drug Discovery to Clinical Trials (S69)

10:20-10:35AM

C. Maki Transient Nutlin-3a Treatment Promotes Endoreduplication and the Generation of Therapy-resistant Tetraploid Cells (S70)

10:35-10:50AM

M. Laiho Identification of Novel p53 Pathway Activating Small Molecule Compounds (S71)

10:50-11:05Am

S. Lain Discovery of Small Molecule Sirtuin Inhibitors Through a p53 Activation Assay (S72)

Closing Session

11:05-11:45AM

Special Lecture by A.J. Levine: 30 Years of p53 Research

11:45-12:00PM

Final Logistics: **Wei Gu** and **Hua Lu**

12:00PM

Lunch at Crowne First Floor Cafeteria

Good-bye (再见)