



*Oxygen Club
of California*



*University
of Turin*

OXIDANTS AND ANTIOXIDANTS IN BIOLOGY

PROGRAM



7-10 SEPTEMBER 2005

ALBA, ITALY

OXIDANTS AND ANTIOXIDANT IN BIOLOGY

A Meeting in Honor of Angelo Azzi

7-10 September 2005

Alba, Italy

*A Joint Meeting of the
Oxygen Club of California
and
the University of Turin*

ORGANIZERS

Giuseppe Poli

DEPARTMENT OF CLINICAL AND BIOLOGICAL SCIENCES, UNIVERSITY OF TURIN,
SAN LUIGI HOSPITAL, ORBASSANO, TURIN, ITALY

Helmut Sies

INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I,
HEINRICH-HEINE-UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

Enrique Cadenas

DEPARTMENT OF MOLECULAR PHARMACOLOGY & TOXICOLOGY, SCHOOL OF PHARMACY,
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CA, USA

WEDNESDAY
SEPTEMBER 7

WELCOME

17:30

Giuseppe Rossetto

MAYOR OF ALBA

Ezio Pelizzetti

PRESIDENT OF THE UNIVERSITY OF TURIN

Giuseppe Poli

DEPARTMENT OF CLINICAL AND BIOLOGICAL SCIENCES, UNIVERSITY OF TURIN, SAN LUIGI HOSPITAL, ORBASSANO, TURIN, ITALY

Helmut Sies

PRESIDENT OF THE OXYGEN CLUB OF CALIFORNIA

INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I, HEINRICH-HEINE-UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

INTRODUCTORY REMARKS: A MEETING IN HONOR OF ANGELO AZZI

17:50

Lester Packer

OCC FOUNDING PRESIDENT

DEPARTMENT OF MOLECULAR PHARMACOLOGY & TOXICOLOGY, SCHOOL OF PHARMACY, UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CA, USA

KEYNOTE LECTURE

CHAIRPERSON *Helmut Sies*

PRESIDENT OF THE OXYGEN CLUB OF CALIFORNIA

INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I, HEINRICH-HEINE-UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

18:10

Vitamin E: A paradigm of the mechanisms of scientific progress

Angelo Azzi

INSTITUTE OF BIOCHEMISTRY AND MOLECULAR BIOLOGY, UNIVERSITY OF BERN, BERN, SWITZERLAND

19:00

Welcome reception

Garden of Teatro Sociale

**THURSDAY
SEPTEMBER 8**

SESSION I OXIDANTS IN VASCULAR BIOLOGY

CHAIRPERSONS *Helmut Sies*

INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I, HEINRICH-HEINE-
UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

Anne Nègre-Salvayre

INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE, CENTRE
HOSPITALIER UNIVERSITAIRE RANGUEIL, TOULOUSE, FRANCE

09:00–09:20 **Lipid oxidation products disturb cholesterol homeostasis
in vascular cells**

Wendy Jessup

CENTRE FOR VASCULAR RESEARCH AT SCHOOL OF MEDICAL SCIENCES,
UNIVERSITY OF NEW SOUTH WALES, SYDNEY, NSW, AUSTRALIA

09:20–09:40 **Oxidized cholesterol and atherosclerosis progression**

Gabriella Leonarduzzi

DEPARTMENT OF CLINICAL AND BIOLOGICAL SCIENCES, UNIVERSITY OF
TURIN, SAN LUIGI HOSPITAL, ORBASSANO, TURIN, ITALY

09:40–10:00 **Heme oxygenase-1 mediates vasculo-protective effects
of peroxisome proliferator-activated receptor**

Norbert Leitinger

DEPARTMENT OF VASCULAR BIOLOGY AND THROMBOSIS RESEARCH,
UNIVERSITY OF VIENNA, AUSTRIA

10:00–10:20 **Nrf2 mediated induction of antioxidant stress proteins in
vascular cells**

Giovanni E. Mann

CARDIOVASCULAR DIVISION, GKT SCHOOLS OF BIOMEDICAL SCIENCES AND
MEDICINE, KING'S COLLEGE, UNIVERSITY OF LONDON, LONDON, UK

10:20–10:50 *Coffee break*

CHAIRPERSONS *Helmut Sies*
INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I, HEINRICH-HEINE-
UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

Nesrin Kartal-Özer
DEPARTMENT OF BIOCHEMISTRY, FACULTY OF MEDICINE, MARMARA
UNIVERSITY, ISTANBUL, TURKEY

10:50–11:10 **Effects of flavonoids on vascular function**

Joseph Vita
SECTION OF CARDIOLOGY, BOSTON MEDICAL CENTER, BOSTON UNIVERSITY
SCHOOL OF MEDICINE, BOSTON, MA, USA

11:10–11:30 **Regulation of 5'AMP-activated kinase, an energy-
sensing enzyme, in endothelial cells**

Regine Heller
MOLECULAR CELL BIOLOGY, FRIEDRICH-SCHILLER-UNIVERSITY OF JENA,
ERFURT, GERMANY

11:30–11:50 **Nitric oxide and nitric oxide-derived oxidants:
Interactions with human LDL**

Rafael Radi
DEPARTAMENTO DE BIOQUÍMICA, FACULTAD DE MEDICINA, MONTEVIDEO,
URUGUAY

SESSION II

DIETARY AND METABOLIC OXIDATIVE STRESS

CHAIRPERSONS

Ute Obermueller-Jevic

SCIENTIFIC AFFAIRS HUMAN NUTRITION, BASF AKTIENGESSELLSCHAFT, LUDWIGSHAFEN, GERMANY

Mario Comporti

DEPARTMENT OF PATHOPHYSIOLOGY, EXPERIMENTAL MEDICINE, AND PUBLIC HEALTH, UNIVERSITY OF SIENA, SIENA, ITALY

11:50–12:10

Postprandial glucose regulation and diabetes implications

Antonio Ceriello

DEPARTMENT OF PATHOLOGY AND MEDICINE, EXPERIMENTAL AND CLINICAL, UNIVERSITY OF UDINE, UDINE, ITALY

12:10–12:30

Redox metabolomics to connect diet, oxidative stress, and prediction of disease

Dean P. Jones

DEPARTMENT OF MEDICINE, DIVISIONS OF CARDIOLOGY AND PULMONARY, EMORY UNIVERSITY, ATLANTA, GA, USA

12:30–12:50

A new perspective on obesity: early metabolic mal-programming

Mulchand Patel

DEPARTMENT OF BIOCHEMISTRY, SCHOOL OF MEDICINE AND BIOMEDICAL SCIENCES, STATE UNIVERSITY OF NEW YORK AT BUFFALO, BUFFALO, NY, USA

12:50–13:10

Macronutrient intake induces oxidative and inflammatory stress while insulin causes suppression of ROS generation and inflammation

Paresh Dandona

DIVISION OF ENDOCRINOLOGY, DIABETES, AND METABOLISM, DIABETES-ENDOCRINOLOGY CENTER OF WESTERN NEW YORK, STATE UNIVERSITY OF NEW YORK AT BUFFALO, AND KALEIDA HEALTH, BUFFALO, NY, USA

13:10–13:20

Group Photo

13:20–14:50

Lunch and Poster Viewing

14:50–15:10

IKK β links inflammation to obesity-induced insulin resistance

Melek C. Arkan

LABORATORY OF GENE REGULATION AND SIGNAL TRANSDUCTION,
DEPARTMENT OF PHARMACOLOGY, SCHOOL OF MEDICINE, UNIVERSITY OF CALIFORNIA, SAN DIEGO, LA JOLLA, CA, USA

15:10–15:30

Oxidative stress acts as trigger of autoimmune reactions in alcoholic liver disease

Emanuele Albano

DEPARTMENT OF MEDICAL SCIENCES, UNIVERSITY "A AVOGADRO" OF EAST PIEDMONT, NOVARA, ITALY

SESSION III ENVIRONMENTAL OXIDATIVE STRESS

CHAIRPERSONS

Carroll E. Cross

MEDICINE AND PHYSIOLOGY, UNIVERSITY OF CALIFORNIA DAVIS, DAVIS, CA, USA

Umberto Marinari

DEPARTMENT OF EXPERIMENTAL MEDICINE, SECTION OF GENERAL PATHOLOGY, UNIVERSITY OF GENOVA, GENOVA, ITALY

15:30–15:50 **Solar ultraviolet A radiation-induced biological effects in human skin**

Jean Krutmann

DEPARTMENT OF DERMATOLOGY, HEINRICH-HEINE-UNIVERSITY DÜSSELDORF, DÜSSELDORF, GERMANY

15:50–16:10 **Antioxidant micronutrients in skin health**

Wilhelm Stahl

INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I, HEINRICH-HEINE-UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

16:10–16:30 **Oxidant-mediated signaling events in asbestos-related diseases**

Brooke Mossman

DEPARTMENT OF PATHOLOGY, UNIVERSITY OF VERMONT COLLEGE OF MEDICINE, BURLINGTON, VT, USA

16:30–17:00 *Coffee break*

17:00–17:20 **Noninvasive laser detection of carotenoid antioxidants in human tissue**

Werner Gellerman

DEPARTMENT OF PHYSICS, UNIVERSITY OF UTAH, SALT LAKE CITY, UT, USA

- 17:20–17:40 Carotenoid diets modify mouse lung responses to xenobiotic metabolism, oxidative stress, and inflammatory-immune processes
Lester Packer
DEPARTMENT OF MOLECULAR PHARMACOLOGY & TOXICOLOGY, SCHOOL OF PHARMACY, UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CA, USA
- 17:40–18:00 Quantitative changes in TTP, SRB1 and ABCA1 gene expression in murine lung tissue upon exposure to combined environmental pollutants. Differences between old and young
Giuseppe Valacchi
DIVISION OF PULMONARY AND CRITICAL CARE MEDICINE, UNIVERSITY OF CALIFORNIA DAVIS, DAVIS, CA, USA
- 18:00–18:20 Oxidative stress as a common pathogenic determinant in chronic degenerative diseases
Alberto Izzotti
DEPARTMENT OF HEALTH SCIENCES, UNIVERSITY OF GENOA, GENOA, ITALY
- 20:30 *Petit Opéra*
Historic Hall of Teatro Sociale

FRIDAY
SEPTEMBER 9

SESSION IV **INTERNATIONAL REDOX NETWORK WORKSHOP**
REDOX REGULATION OF CELL SIGNALING AND
GENE EXPRESSION

CHAIRPERSONS *Junji Yodoi*
DEPARTMENT OF BIOLOGICAL RESPONSES, LABORATORY OF INFECTION AND
PREVENTION, INSTITUTE FOR VIRUS RESEARCH, KYOTO UNIVERSITY, KYOTO,
JAPAN

Arne Holmgren
MEDICAL NOBEL INSTITUTE FOR BIOCHEMISTRY, DEPARTMENT OF MEDICAL
BIOCHEMISTRY AND BIOPHYSICS, KAROLINSKA INSTITUTE, STOCKHOLM,
SWEDEN

08:30–08:40 **Introduction**
Junji Yodoi - Arne Holmgren

08:40–09:00 **Electrophile-sensitive proteins**
Koji Uchida
GRADUATE SCHOOL OF BIOAGRICULTURAL SCIENCES, NAGOYA UNIVERSITY,
NAGOYA, JAPAN

09:00–09:20 **Redox control in the endoplasmic reticulum**
Roberto Sitia
UNIVERSITÀ VITA-SALUTE SAN RAFFAELE, MILANO, ITALY

09:20–09:40 **Molecular mechanism of sulfiredoxin**
Sue Goo Rhee
LABORATORY OF CELL SIGNALING, NATIONAL HEART, LUNG, AND BLOOD
INSTITUTE, NATIONAL INSTITUTES OF HEALTH, BETHESDA, MD, USA

09:40–10:00 **Redox controls of ASK1-MAP kinase signaling pathway
in apoptosis and immunity**
Hidenori Ichijo
LABORATORY OF CELL SIGNALING, GRADUATE SCHOOL OF
PHARMACEUTICAL SCIENCES, THE UNIVERSITY OF TOKYO, TOKYO, JAPAN

- 10:00–10:20 *An ASJ neuron-specific thioredoxin in *Caenorhabditis elegans**
Antonio Miranda-Vizuete
CENTRO ANDALUZ DE BIOLOGÍA DEL DESARROLLO, DEPARTAMENTO DE CIENCIAS AMBIENTALES, UNIVERSIDAD PABLO DE OLAVIDE, SEVILLA, SPAIN
- 10:20–10:50 *Coffee break*
- 10:50–11:10 *Signaling of apoptosis by SecTRAPs. Linking the integrity of selenocysteine in thioredoxin reductase with cellular effects triggered by electrophilic anticancer agents*
Elias Arnér
MEDICAL NOBEL INSTITUTE FOR BIOCHEMISTRY, DEPARTMENT OF MEDICAL BIOCHEMISTRY AND BIOPHYSICS, KAROLINSKA INSTITUTE, STOCKHOLM, SWEDEN
- 11:10–11:30 *Specific anti-STAT1 action of some natural polyphenols: Protective effect in inflammatory diseases*
Hisanori Suzuki
BIOCHEMISTRY DIVISION, DEPARTMENT OF NEUROSCIENCE AND VISION, UNIVERSITY OF VERONA, VERONA, ITALY
- 11:30–11:50 *Redox-sensitive transport of human thioredoxin-1*
Norihiko Kondo
DEPARTMENT OF BIOLOGICAL RESPONSES, INSTITUTE FOR VIRUS RESEARCH, KYOTO UNIVERSITY, KYOTO, JAPAN
- 11:50–12:10 *Thioredoxin-binding proteins: Role for cancer protection*
Hiroshi Masutani
DEPARTMENT OF BIOLOGICAL RESPONSES, INSTITUTE FOR VIRUS RESEARCH, KYOTO UNIVERSITY, KYOTO, JAPAN

- 12:10–12:30 Glutathione peroxidases: Unexpected functions and expression control
Regina Brigelius-Flohé
DEPARTMENT OF VITAMINS AND ATHEROSCLEROSIS, GERMAN INSTITUTE OF HUMAN NUTRITION, UNIVERSITY OF POTSDAM, POTSDAM-REHBRÜCKE, GERMANY
- 12:30–12:50 Cu(II)-induced PI3 kinase signaling: Modulation of FoxO transcription factor activity
Lars Oliver Klotz
INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I, HEINRICH-HEINE-UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY
- 12:50–14:20 *Lunch and Poster Viewing*
- 14:20–14:40 The cytoskeleton in the modulation of cell signaling by zinc
Patricia Oteiza
DEPARTMENT OF NUTRITION, UNIVERSITY OF CALIFORNIA, DAVIS, CA, USA
- 14:40–15:00 Molecular mechanisms involved in the adaptive response to oxidative stress
Franca Esposito
DEPARTMENT OF BIOCHEMISTRY AND MEDICAL BIOTECHNOLOGY, UNIVERSITY OF NAPLES FEDERICO II, NAPLES, ITALY

SESSION V **BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
FLAVONOIDS AND POLYPHENOLS**

CHAIRPERSONS *Junji Terao*
DEPARTMENT OF FOOD SCIENCE, GRADUATE SCHOOL OF NUTRITION AND
BIOSCIENCES, THE UNIVERSITY OF TOKUSHIMA, TOKUSHIMA, JAPAN

Josiane Cillard
LABORATOIRE DE BIOLOGIE CELLULAIRE ET VÉGÉTALE, FACULTÉ DE
PHARMACIE, UNIVERSITÉ DE RENNES I, RENNES, FRANCE

15:00–15:20 **Bioavailability of flavonoids and polyphenols**

Gary Williamson
NESTLÉ RESEARCH CENTER VERS-CHEZ-LES-BLANC
CH-1000 LAUSANNE, SWITZERLAND

15:20–15:40 **Chocolate and wine flavanols in hypertension:
The search for reliable biochemical mechanisms**

César Fraga
DEPARTMENT OF NUTRITION, UNIVERSITY OF CALIFORNIA, DAVIS, CA, USA

15:40–16:00 **Health effect of polyphenols: Is it a matter of single
nutraceuticals or a diet as a whole?**

Fulvio Ursini
DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF PADOVA, PADOVA, ITALY

16:00–16:20 **Green tea and oatmeal for breakfast**

Mohsen Meydani
VASCULAR BIOLOGY LABORATORY, JEAN MAYER USDA-HUMAN NUTRITION
RESEARCH CENTER ON AGING AT TUFTS UNIVERSITY, BOSTON, MA, USA

16:20–16:50 *Coffee break*

16:50–17:10 Cocoa flavanols modulate the prooxidant-antioxidant balance in human plasma by lowering F₂-isoprostane concentrations

Ingrid Wiswedel

INSTITUT FÜR KLINISCHE CHEMIE UND PATHOBIOCHEMIE, OTTO-VON-GUERICKE-UNIVERSITÄT MAGDEBURG, GERMANY

17:10–17:30 Transcriptome and proteome analysis of human endothelial cells supplemented with the soy isoflavone genistein

Gerald Rimbach

INSTITUTE OF HUMAN NUTRITION AND FOOD SCIENCE, CHRISTIAN-ALBRECHTS-UNIVERSITY OF KIEL, KIEL, GERMANY

17:30–17:50 Polyphenols from wine and the diet: eNOS and metabolic syndrome

Federico Leighton

DEPARTAMENTO DE BIOLOGIA CELULAR Y MOLECULAR, FACULTAD DE CIENCIAS BIOLÓGICAS, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, SANTIAGO, CHILE

ALEX SEVANIAN MEMORIAL LECTURE

CHAIRPERSON *Mario U. Dianzani*

DEPARTMENT OF EXPERIMENTAL MEDICINE AND ONCOLOGY, SECTION OF GENERAL PATHOLOGY, UNIVERSITY OF TURIN, TURIN, ITALY

17:50–18:30 Dietary polyphenols to limit oxidative stress and improve human health: A future open but still paved with much uncertainty

Augustin Scalbert

UNITÉ DES MALADIES MÉTABOLIQUES ET MICRONUTRIENTS, INRA, SAINT-GENÈS-CHAMPANELLE, FRANCE

20:30

Gala Dinner

Ristorante La Cascata, Pollenzo

SATURDAY
SEPTEMBER 10

**SESSION VI OXIDANTS AND ANTIOXIDANTS IN NEURODEGENERATION
AND AGING**

CHAIRPERSONS *Ana Navarro*
DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY,
SCHOOL OF MEDICINE, UNIVERSITY OF CÁDIZ, CÁDIZ, SPAIN

Huveyda Basaga
BIOLOGICAL SCIENCES AND BIOENGINEERING PROGRAM, SABANCI
UNIVERSITY, TUZLA, ISTANBUL, TURKEY

09:00–09:20 Redox regulation of heat shock protein expression in
aging and neurodegenerative disorders: Role of vitagens
and modulation by acetylcarnitine

Vittorio Calabrese
DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF CATANIA, ITALY

09:20–09:40 Intracellular toxicity of β -amyloid peptide: Role of
mitochondrial oxidant generation

José Viña
DEPARTMENT OF PHYSIOLOGY, SCHOOL OF MEDICINE, UNIVERSITY OF
VALENCIA, VALENCIA, SPAIN

09:40–10:00 Nitric oxide dynamics in hippocampus following
activation of NMDA and AMPA receptors

João Laranjinha
LABORATORY OF BIOCHEMISTRY, FACULTY OF PHARMACY AND CENTER FOR
NEUROSCIENCES AND CELL BIOLOGY, UNIVERSITY OF COIMBRA, COIMBRA,
PORTUGAL

10:00–10:20 A two-hit hypothesis for the pathogenesis of Alzheimer's
disease

Mark A. Smith
INSTITUTE OF PATHOLOGY, CASE WESTERN RESERVE UNIVERSITY,
CLEVELAND, OH, USA

- 10:20–10:40 Oxidants and antioxidants in neurodegeneration and aging
Francisco J. Romero
DEPARTMENT OF PHYSIOLOGY, PHARMACOLOGY, AND TOXICOLOGY,
UNIVERSITY CARDENAL HERRERA, VALENCIA, SPAIN
- 10:40–11:10 *Coffee break*
- 11:10–11:30 Mitochondrial reactive oxygen species: Topology and cytotoxicity
Derick Han
RESEARCH CENTER FOR LIVER DISEASES, KECK SCHOOL OF MEDICINE,
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CA, USA
- 11:30–11:50 Mitochondrial dysfunction in the hippocampus and in the striatum body
Alberto Boveris
LABORATORY OF FREE RADICAL BIOLOGY, SCHOOL OF PHARMACY AND BIOCHEMISTRY, UNIVERSITY OF BUENOS AIRES, BUENOS AIRES, ARGENTINA

SESSION VII CLINICAL STUDIES ON ANTIOXIDANTS

CHAIRPERSONS

Bruce Ames

CHILDREN'S HOSPITAL OAKLAND RESEARCH INSTITUTE, OAKLAND, CA,
USA

Virginia Junqueira

DISCIPLINA DE GERIATRIA, DEPARTAMENTO DE MEDICINA, CENTRO DE
ESTUDOS DO ENVELHECIMENTO, UNIVERSIDADE FEDERAL DE SÃO PAULO,
SÃO PAULO, BRAZIL

11:50–12:10

Protection of DNA damage by antioxidants.

Relationship with two French epidemiological studies:
EVA and SUVIMAX

Alain Favier

LABORATOIRE LÉSIONS DES ACIDES NUCLÉIQUES, DÉPARTEMENT DE
RECHERCHE FONDAMENTALE SUR LA MATIÈRE CONDENSÉE, CEA-
GRENOBLE, GRENOBLE, FRANCE

12:10–12:30

Vitamin E and respiratory infections in the elderly

Simin Meydani

NUTRITIONAL IMMUNOLOGY LABORATORY, JEAN MAYER USDA HUMAN
NUTRITION RESEARCH CENTER ON AGING AT TUFTS UNIVERSITY, BOSTON,
MA, USA

12:30–12:50

Oxidative stress and mild cognitive impairment

Cristina Polidori

INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I, HEINRICH-HEINE-
UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

12:50–13:10

Antioxidants for the treatment of cardiovascular disease:
Is there a future?

Francesco Violi

DEPARTMENT OF EXPERIMENTAL MEDICINE AND PATHOLOGY, UNIVERSITY
OF ROME LA SAPIENZA, DIVISIONE IV CLINICA MEDICA, POLICLINICO
UMBERTO I, ROME, ITALY

Concluding remarks

Giuseppe Poli

DEPARTMENT OF CLINICAL AND BIOLOGICAL SCIENCES, UNIVERSITY OF
TURIN, SAN LUIGI HOSPITAL, ORBASSANO, TURIN, ITALY

OCC 2006

Helmut Sies

PRESIDENT OF THE OXYGEN CLUB OF CALIFORNIA
INSTITUT FÜR BIOCHEMIE UND MOLEKULARBIOLOGIE I,
HEINRICH-HEINE-UNIVERSITÄT DÜSSELDORF, DÜSSELDORF, GERMANY

13:30

Farewell Lunch

Garden of the Teatro Sociale

SPONSORS

Fondazione Ferrero
Cavalieri Ottolenghi Foundation
BASF

Abkit
Actimex srl
Alexis Biochemicals
Beiersdorf AG
Cassella-med GmbH
Cognis, Germany
Danone Vitapole
DSEA, Dietary supplement Education Alliance
DSM Nutritional Products, Inc.
Fratelli Ceretto
Jarrow Formulas
Jarrow Industries
Johnson & Johnson
Leiner Health Products
LI Consulting
Nestlé
Orthomol GmbH
Osato Research Institute
Pharmanex Research Institute
Phosphagenics
School of Pharmacy, University of Southern California
The Colgate Palmolive Company
Town of Alba
Turin Committee for 2006 Winter Olympics