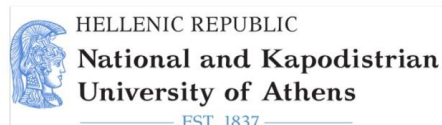


11th International Conference on Oxidative Stress in Skin Biology and Medicine



Andros 2024, September 12-15

PROGRAM





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**11th International Conference
on Oxidative Stress in Skin Biology and Medicine**



Sponsors



Η ΑΥΘΕΝΤΙΑ ΣΤΟΥΣ ΑΝΤΙΟΞΕΙΔΩΤΙΚΟΥΣ ΟΡΟΥΣ

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ADRAGOS
PHARMA



Welcome Letter

Dear Participants, dear Colleagues,

on behalf of the Organizing Committee and the 11th International Conference on Oxidative Stress in Skin Biology and Medicine 2024 (Oxstress2024) which will be held in Andros, Greece, September 12-15, 2024.

Welcome to the fascinating world of oxidative stress and its impact on skin health and disease. This conference will explore these phenomena and their treatments on the historic and beautiful Cycladic island of Andros. We cordially invite you to enjoy both the scientific and social aspects of the conference.

***Dedicated to the Memory of our Beloved
Ifigenia Geitona – Polychronopoulou***

Prof Dr. Michael Christou Rallis





Chair of the Scientific Committee

Prof Dr. Jean Kanitakis



He is a professor of dermatology, actively working in both clinical and research fields. He has published more than 450 scientific articles and serves as the editor-in-chief or as a member of the editorial boards of numerous international journals, including the European Journal of Dermatology, where he has been editor-in-chief since 2011. He is, or has been, a member of some of the most recognized dermatological societies. Currently, he is focused on vascularized tissue transplantation and skin cancer research.

Members of the Scientific Committee

- Black Homer (USA)
- Burke Karin (USA)
- Fisher-Fodor Eva (Romania)
- Houée-Lévin Chantal (France)
- Gruber Florian (Austria)
- Kletsas Dimitris (Greece)
- Korac Aleksandra (Serbia)
- Korac Bato (Serbia)
- Nikolaou Anna (England)
- Sastre Juan (Spain)
- Scharffetter-Kochanek Karin (Germany)
- Sies Helmut (Germany)
- Stratigos Alexandros (Greece)
- Theophanides Theophilos (Greece)
- Valacchi Giuseppe (USA)
- Veves Aristides (USA)
- Werner Sabine (Switzerland)
- Wondrak Georg (USA)
- Zouboulis Christos (Germany)

Members of the Organizing Committee

- Anastassopoulou Jane
- Alexandratou Eleni
- Barda Christina
- Chanielaki Aikaterini
- Chondrogianni Niki
- Dania Fotini
- Karampasi Christina
- Korachai Kalliopi
- Korachai Dimitra
- Lyggitsou Georgia
- Mendonis Sotirios
- Papantonaki Anastasia - Ioanna
- Papageorgiou Spiridon
- Petri Aspasia
- Petrou Athina
- Polychronopoulos Evangelos
- Rallis Michail
- Skaltsa Helen
- Statha Dimitra
- Svolianopoulos Ioannis
- Tagka Anna
- Tarazi Evangelia
- Theophanides Theophilos
- Varvaresou Athanasia
- Vitsos Andreas
- Zouridaki Eftychia



September 12, 2024
Thursday

- 9:00-10:00** Registration
Welcome - Breakfast
- 10:00-10:30** Opening ceremony
Welcome from authorities
- 10:30-10:45** **J. Anastasopoulou**
In memory of Ifigenia Geitona – Polychronopoulou

Opening Conference Lecture
-
- 10:45-11:30** **J. Kanitakis**

Skin Cancer in Organ Transplant Recipients
-
- 11:30-11:45** **Traditional music and local treats**
-

CANCER PART A

Chairpersons: A. Stratigos, H. Black

- 11:45-12:10** **M. Benedusi**
Melanoma and pollution
- 12:10-12:35** **E. Fischer-Fodor**
The metal-mediated cell death as therapeutic target in malignant melanoma
- 12:35-13:00** **M. Karabinis**
Exploring the Interplay between Oxidative Stress and Skin Cancer
- 13:00-13:25** **C. Demonakos**
Oxidative stress conveys differential effects in lung versus breast cancer cells via the endoplasmic reticulum molecular chaperone GRP78
- 13:25-13:50** **M. Krstic-Demonacos'**
Dynamic modelling for personalized cancer care



13:50-14:50	Lunch break
Chairperson: I.	Chairperson: J. Kanitakis, K. Thermos-Katerinopoulou
Special lectures	H. Black
14:50-15:25	<i>Oxidative Stress and ROS Linking Diabetes and Cancer</i>
15:25-15:45	G.Truscott
	<i>Astaxanthin: Photochemistry, Radical Scavenging and Skin Whitening</i>

CANCER PART B

Chairpersons: G. Vallacchi, C. Demonakos

15:45-16:10

M.C Rallis

Experimental Squamous Cell Carcinoma

16:10-16:35

B. Korac

Breast cancer and redox-metabolic reprogramming

The role of NRF2 in the cross-talk between the breast cancer and the skin

16:35-16:50

Coffee Break

16:50-17:15

E. Polychronopoulos

European Cancer Registries. The Greek Component. Cancer Prevention, Treatment Screening vs Palliative Care

17:15-17:40

T. Gimisis

A novel DNA lesion arising from oxidation of thymidine

17:40-18:20

Round Table

Skin Cancer: Prevention and Treatment

Chair H. Black

J. Kanitakis, C. Demonakos, B. Korac, G. Valacchi



18:20-19:30 Poster Session I

Chairpersons: Th. Theophanides, J. Anastassopoulou

18:20 – 18:25	Antioxidants in ancient pharmacopoeia	S. Geronikolou
18:25 – 18:30	Chloroaluminum phthalocyanine encapsulated in chitosan nanoparticles: synthesis, characterization and evaluation for photodynamic cancer therapy	I. Alagiannis
18:30 – 18:35	FTIR spectroscopy as a fast non-invasive technique for skin cancer differentiation	A. Markouizou
18:35 – 18:40	Continuous versus pulsed irradiation using curcumin in photodynamic therapy treatment of skin cancer	E. Oikonomou
18:40 – 18:45	Investigating the role of the subparafascicular thalamic nucleus in the processing of soft touch sensation in mice	K. Ioneskou
18:45 – 18:50	Development and efficacy of a face cream based on caffeine derivatives. Anti-aging effects with a split-face, randomized controlled trial	S. Pitsava
18:50 – 18:55	Nicotine transdermal transduction in patients suffering from chronic fatigue due to post-covid19 syndrome	E. Griva
18:55 – 19:00	Formulation of nicotinamide for topical administration and evaluation of <i>in vitro</i> permeation	C. Xyta
19:00 – 19:05	A study on the photodynamic activity of metal phthalocyanines and their hybrid materials with doped carbon quantum dots	D. Tsakiroglou
19:05 – 19:10	Preliminary results of the development and the establishment of efficacy of a topical skin formulation containing plant stem cells culture	V. Gardiki
19:10 – 19:15	Preliminary study on a nevus-induction model in mice	A.I. Papantonaki
19:15 – 19:20	<i>In vivo</i> study of dermatological effects following acute or chronic exposure to a home-use UVC mercury lamp for disinfection	C. Karampasi
19:20 – 19:25	Investigating the wound healing potential of low-power 661 nm laser light in a hairless murine model with melanin	D. Statha
19:25 – 19:30	Enhanced skin wound healing through repurposing valsartan and sacubitril: a preliminary study	D. Statha



September 13, 2024
Friday

8:00-9:00 Breakfast

RADIATION DIAGNOSIS, THERAPIES AND NANOPARTICLES

Chairpersons: E. Alexandratou, A. Petri

9:00-9:25

R. Catalano

A novel approach for in situ determination of ROS in cosmetics and evaluating the advantages of encapsulating photosensitive active ingredients

9:25-9:50

K. Rolfes

UVB radiation-induced skin carcinogenesis and the impact of low dose UVA irradiation

9:50-10:15

I. Baldea

Chemo-magnetic hyperthermia mediated by iron oxide nanoclusters linked with doxorubicin induces effective cell cycle arrest and apoptosis on breast cancer spheroids

10:15-10:40

A. Karagianni

Carbon dots and their interaction with zinc phthalocyanine derivative as photosensitizers against skin cancer

10:40-11:05

T. Ren Jie

Impact of therapeutic and synchrotron imaging X-ray exposure on collagen I and associated proteins

11:05-11:20

Coffee break

11:20-11:45

C. Houée-Lévin

Flash vs. Conventional irradiation for cancer therapies

11:45-12:10

R. Gorodetsky

Regeneration and repair of systemic and local radiation damages by the injection of expended allogeneic placental stromal cells



REDOX REGULATION AND EXPOSOMES

Chairpersons: B. Korac, D. Kletsas

12:10–12:35

G. Valacchi

Skin health from the inside out: Blueberries protection against UV damage

12:35-13:00

E. Esposito

Nanovesicles as Tools to Protect the Skin against Environmental Stressors

13:00-13:25

Fr. Ferrara

Cutaneous inflammasome involvement in outdoor stressors exposure

13:25-13:50

T. Haarmann-Stemann

Combustion-derived air pollutants induce oxidative and inflammatory stress in the skin: Mechanistic insights

13:50-14:15

S. Lohan

Two methods to show antipollution properties of cream formulations

14:15-15:15

Lunch break

Special lecture

Chairperson: A. Ntalianis

G. Vasilopoulos

15:15-16:00

Contemporary challenges in Bioethics

16:00-16:25

Chairperson: I. Baldea

K.E. Burke

Treatment of All Solid and Liquid Tumors: T-Cell Immunotherapy with Enhanced Specificity and Memory



WOUND HEALING

Chairpersons: A. Veves, E. Zouridaki

16:25–16:50

H. Weavers

Live-imaging of wound repair in flies reveals mechanisms underlying resilience to oxidative stress

16:50-17:15

A. Veves

Use of modified mRNA topical treatments and repurposed drugs for the management of diabetic foot ulceration.

17:15-17:40

M. Bei

Novel repurposed drugs: an innovative treatment for skin wound healing

17:40-18:05

A. Vitsos

Wound Healing Efficacy Of Gel-Based Dressings Containing Pycnogenol™ And Ceratothoa Oestroides Extracts: An In Vivo Study

18:05-18:30

P. Hiebert

Regulation of ecm by NRF2 during skin aging and tissue repair

18:30-18:55

V. Pekovic-Vaughan

NRF2 signalling in the skin at the crossroads between circadian clock and extracellular matrix regulation

18:55-19:10

Coffee Break

19:10-20:00

Poster Session II

**Chairpersons: P. Hiebert,
E. Polychronopoulos**

**11th International Conference
on Oxidative Stress in Skin Biology and Medicine**



19:10 – 19:15	Plants of Lamiaceae family: valuable source of natural antioxidants	H. E. Katerinopoulos
19:15 – 19:20	The phenolic content of Greek <i>Salvia</i> taxa and their antioxidant properties	M. Anagnostou
19:20 – 19:25	<i>In vitro</i> and <i>in vivo</i> study of plant extracts with ethnopharmacological interest: effect on a psoriasis model	Z. Kardasi
19:25 – 19:30	Bioactivities of seed extracts from a cretan <i>Ceratonia siliqua</i> cultivar: studies on phenolic compounds	M.Souma
19:30 – 19:35	Wound healing potential of herbal hydrogel formulations of <i>Cedrus brevifolia</i> extracts in mice	G. Lyggitsou
19:35 – 19:40	<i>Cedrus brevifolia</i> : <i>in vivo</i> investigation of wound healing properties of resin, bark and needle extracts	G. Lyggitsou
19:40 – 19:45	Therapeutic effects of <i>Dioscorea communis</i> paste on experimental gingivitis and dental caries	A.I. Papantonaki
19:45 – 19:50	Preventive effect of <i>Dioscorea communis</i> gel on experimental gingivitis and dental caries	A.I. Papantonaki
19:50 – 19:55	Green synthesis of nanocomposite hydrogels for application in photodynamic therapy (PDT)	F. Kalogeropoulou
19:50 – 19:55	Anti-inflammatory activity of Echinochrom A nanofibers in UV induced dermatitis	G. Svolianopoulos



September 14, 2024
Saturday

8:00-9:00 Breakfast

ARTIFICIAL INTELLIGENCE AND DISEASES

Chairpersons: A. Korac, A. Tagka

9:00-09.25 **E. Mylonas**

Antioxidant and anti-inflammatory role of statins on cardiovascular artery plaque formation and sclerosis: Mathematical model of statin prevention and concentration risk factors

09.25-09.50 **A. Kyritsi**

Machine Learning Algorithms Toward Unveiling Patterns of Contact Sensitization from Medicines and Excipients: Analyzing Data from a Prospective Study

09.50-10:15 **L. Baciou**

When AI needs to meet reality

CELLULAR SENESCENCE - AGING

Chairpersons: M. Meinke, L. Baciou

10:15-10:40 **I. Trougakos**

A systems biology approach to study the proteostatic, mitostatic and antioxidant responses machineries functional integration

10:40-11:05 **A. Pecorelli**

Cutaneous tight junctions responses to dietary oxysterols

11:05-11:30 **D. Kletsas**



11:30-11:45

Coffee break

Skin fibroblasts' responses to UVB: cell death, premature senescence or resistance?

11:45-12:10

S. Letsiou

In vitro skin models. Current status and future perspectives

12:10 -12:35

F. Gruber

Adaptations in lipids and metabolites in stress and aging

12:35-13:00

H. Pratsinis

Antioxidant and dermoprotective activities of extracts from Cretan Ceratonia siliqua cultivars

13:00-13:20

E. Cappuccio

Advanced Techniques for Detecting Senescent Cells in Dermatoporosis: A Non-Invasive Approach.

13:20-13:40

A. Stiegler

Transglutaminase 2 deficient sebocytes display disturbed autophagy and lipid secretion.

13:40-14:40

Lunch break

Special lecture

Chairperson: I. Anastassopoulou

I. Dadeshidze

14:40-15:00

COST European Cooperation in Science and Technology and COST Actions: opportunities for biomedical networks and their impact.

Chairperson: K. Mumcuoglu

15:00-15:20

A. Ntalianis

Bioethics in Artificial Intelligence



OXIDATIVE STRESS – DISEASES

Chairpersons: H. Katerinopoulos, R. Sarkany

15:20-15:45

K. Thermos- Katerinopoulou

NADPH Oxidase Inhibitors as Therapeutics of the Early Events of Diabetic Retinopathy

15:45-16:10

N. Chaikovskaia

Interval Hypoxic Hyperoxic training as a new approach in fighting oxidative stress

SKIN PHOTOBIOLOGY

Chairpersons: I. Trougakos, C. Houee-Levin

16:10-16:35

R. Sarkany

An overview of some mechanisms of UV-induced damage in the skin. The challenge of photoprotection.

16:35-17:00

M. Meinke

New insides about cutaneous sun damage - effects of age, skin type and melanin distribution

17:00-17:25

D. Markovitsi

Radicals generated in DNA upon direct absorption of Low-Energy UV radiation

17:25-17:40

Coffee break



NATURAL PRODUCTS – ANTIOXIDANTS & DISEASES

Chairpersons: H. Skaltsa, A. Catic-Dordevic

17:40-18:05

K. Mumcuoglu

Hirudotherapy in plastic surgery and the effect of leech extracts on oxidative stress

18:05-18:30

A. Catic-Dordevic

Some aspects of in vivo effects of Mullein flower oil cream on human skin

18:30-18:55

H. Skaltsa

The beneficial effects of pharmaceuticals Cannabis

18:55-19:15

M. Trapali

Development of a LC-MS method for antioxidant molecules-polyphenols.

19:15-19:35

V.S. Lagouri

Pomegranate's Gift to Skin: Unpacking the Anti-Aging and Anti-Inflammatory Power of Polyphenols

19:35-19:45

M.E Grafakou

From Skin to Brain: Exploring Hypericum

19:45-19:55

G.E. Tsotsou and P.E. Paraskevopoulou

A smartphone-based methodology for the extraction-free quantification of emulsion analytes

19:55- 20:05

C. Barda

Therapeutic Potential of Essential Oils

20:05- 20:15

J. Kanitakis

Conclusions

21:10...

Dinner



**September 15, 2024
Sunday**

Excursion

10.00 – 13:00	Community Service- Dermatological Cancer Screening for the Elderly
10.00 – 12:00	Goulandri's Museum of Modern Art
12:00 – 13:00	Guided visit to the town of Andros
13:00 – 15:00	Visit to Monastery of Panachrantos (10 th Century) - Lunch
15:00 – 17:00	Coffee in a Traditional Village
17:00-18:30	Walking Tour

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LA VIE EN ROSE

by DIMITRA KATSAFADOU

