



10th International Conference on Oxidative Stress in Skin Biology and Medicine,
15-18 September 2022, Andros, Greece



10th International Conference on Oxidative Stress in Skin Biology and Medicine

Andros, Greece
15-18 September 2022

SCIENTIFIC PROGRAM

Co-Chairmen

Aristidis Veves (USA)

Florian Gruber (Austria)

The conference was founded by our beloved Lester Packer



Co-organizers:



National and
Kapodistrian
University of
Athens



Oxygen Club of
California



Society for Free
Radical Research
-Europe



Andros Municipality

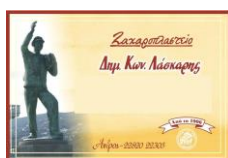




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Andros Province – Dimitrios Laskaris

Marigoula Chazapi

Enalion-Antonis & Maria Karatza

Flora, Asimina & Anastasia Manousou

Makis Moutsinas

Prof. Lydia Palaiokrassa

Antigoni, Aliko & Ioanna Polemis Family

Laskaro Stefanou

Steki tou Andrea



- ΕΡΕΥΝΑ**  **3** εργοστάσια - Υπερσύγχρονες εγκαταστάσεις - Βιοκλιματική εφαρμογή
- ΠΑΡΑΓΩΓΗ** - Τεχνολογία αιχμής
- ΚΑΙΝΟΤΟΜΙΑ**  **545** εργαζόμενοι
- ΕΡΕΥΝΑ & ΑΝΑΠΤΥΞΗ** - Συμμετοχή σε ερευνητικά προγράμματα
- ΑΝΑΠΤΥΞΗ**  Συνεργασία με Ερευνητικά Κέντρα & Ακαδημαϊκά Ιδρύματα
- ΕΠΕΝΔΥΣΕΙΣ**  Καινοτόμες λύσεις - Επανάστατικά επιτεύγματα
-  **40** βραβεία & διακρίσεις - **77** διπλώματα ευρεσιτεχνίας (εθνικά & διεθνή)
-  Εξαγωγές σε **64** χώρες
- ΕΤΑΙΡΙΚΗ ΚΟΙΝΩΝΙΚΗ ΕΥΘΥΝΗ** - Ηθική - Ακεραιότητα
-  Σεβασμός στο περιβάλλον  Αλληλεγγύη

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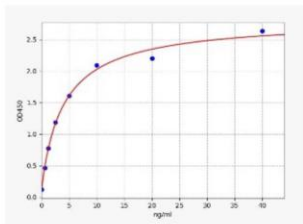


Lab Supplies Scientific

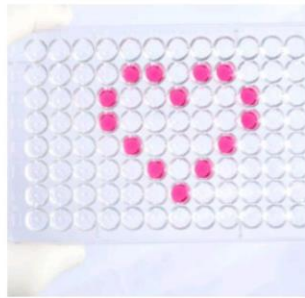
Laboratory Reagents – Equipment – Consumables

Η εταιρεία μας σε συνεργασία με καταξιωμένους οίκους του εξωτερικού διαθέτει ένα μεγάλο εύρος εξειδικευμένων προϊόντων και αντιδραστηρίων για την μελέτη του Oxidative stress.

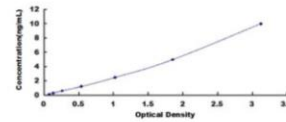
Ενδεικτικά προϊόντα



Human OSGIN2 / Oxidative stress-induced growth inhibitor 2 ELISA Kit



Human Oxidative stress-induced growth inhibitor 2 (OSGIN2) ELISA Kit



Human Oxidative Stress Induced Growth Inhibitor 1 (OSGIN1) ELISA Kit

DNA/RNA Oxidative Damage (Clone 7E6.9) ELISA Kit

Item No. 501130

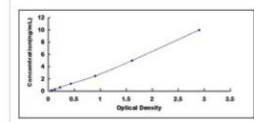
ELISA Kit for Oxidative Stress Responsive 1 (OXSR1)

SEL837Hu | Homo sapiens (Human)

OSR1; Serine/threonine-protein kinase OSR1

DNA/RNA Oxidative Damage (High Sensitivity) ELISA Kit

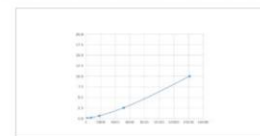
Item No. 589320



Magnetic Luminesx Assay Kit for Oxidative Stress Responsive 1 (OXSR1)

LML837Hu | Homo sapiens (Human)

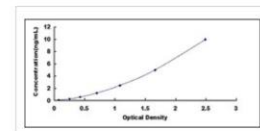
OSR1; Serine/threonine-protein kinase OSR1



ELISA Kit for Oxidative Stress Induced Growth Inhibitor 1 (OSGIN1)

SEG202Hu | Homo sapiens (Human)

BDGI; OKL38; Bone Marrow Stromal Cell-Derived Growth Inhibitor; Pregnancy Induced Growth Inhibitor; Ovary, kidney and liver protein 38





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SPECIAL SHAPE

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September 15, 2022

Thursday

09:00-10:00	Registration
10:00-10:30	Welcome
10:30-10:40	A. Fragkopoulou: Memorial of Lukas Margaritis
10:40-11:00	Treats

OPENING CONFERENCE LECTURE	
11:00-11:40	Chairperson: F. Gruber A. Veves: New therapeutic approaches for diabetic foot ulcers (virtual)

11:40-13:00	REDOX REGULATION AND EXPOSOMES		
	Chairpersons: T. Haarmann-Stemann, M. Sherratt		
11:40-12:00	G. Valacchi	MicroRNA Alterations Induced in Human Skin by Diesel Fumes, Ozone, and UV Radiation (<i>virtual</i>)	SESSION 1.1
12:00-12:20	G. Guerriero	Advances in endocrine disruption assessment using redox evaluation on frog skin biopsy of <i>Pelophylax bergeri</i> (<i>virtual</i>)	
12:20-12:40	M. Sherratt	Detecting protein damage in oxidative environment	
12:40-13:00	Fr. Ferrara	Ubiquitination as a key regulatory mechanism for O ₃ -induced cutaneous redox Inflammasome activation (<i>virtual</i>)	

13:00-13:30	POSTER SESSION 1		
	Chairpersons: E. Skaltsa, N. Aligiannis		
13:00-13:05	S. Geronikolou	GDF15 levels depend on leptin levels in bariatric humans	POSTER SESSION 1
13:05-13:10	E. Mylonas	Mathematical simulation of oxidative stress on amyloid protein and AGEs formation upon the interaction of Covid-19 and patients with cardiovascular diseases	
13:10-13:15	M. Koromvoki	Nanofibrous ulvan-based patches promote wound healing of skin trauma from cryosurgery of keloids	





13:15-13:20	D. Stagos	Antioxidant and anticancer activity of extracts from macroalgae species of Aegean Sea (<i>virtual</i>)
13:20-13:25	D. Stagos	Assessment of chemopreventive activity of extracts from Greek marine angiosperm species (<i>virtual</i>)
13:25-13:30	M. Trapali	Free radical scavenging activity of Greek plant extracts

13:30-14:30 Lunch

OXIDATIVE STRESS - ANTIOXIDANTS - DIET		
Chairpersons: J. Lademann, H. Black		
14:30-14:50	H. Black	Influence of oxidative stress in the pathogenesis of diabetes mellitus
14:50-15:10	J. Lademann	Influence of nutrition and stress on the antioxidants in human skin
15:10-15:30	C. Houée-Lévin	Methionine oxidation: to what extent is this amino acid antioxidant?
15:30-15:50	A. Jankovic	Browning – At the intersection of redox-metabolic homeostasis in white adipose tissue
		SESSION 1.2

15:50-16:20 Coffee break

REDOX BIOLOGY IN PIGMENTATION AND PIGMENT DISORDERS		
Chairpersons: M. Picardo, B. Bellei		
16:20-16:40	M. Picardo	Melanogenesis and Oxidative stress: a string link
16:40-17:00	C. Zhang	The role of oxidative stress in vitiligo, more than an initiator (<i>virtual</i>)
17:00-17:20	B. Bellei	Research update on oxidative stress and metabolic dysequilibrium in vitiligo pathogenes
17:20-17:40	G. Wondrak	GLO1/Thioredoxin/melanoma (<i>virtual</i>)
17:40-18:00	G. Truscott	COVID-19 and ethnicity – are there biological and photobiological links?
18:00-18:15	M. Benedousi	NRF2 and NF-kB crosstalk in melanoma progression: evidences from an in vitro study (<i>virtual</i>)

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18:15-18:30 Coffee break

18:30-20:00	ROUND TABLE 1: SCIENCE ETHICS Chairpersons: F. Gruber, E. Polychronopoulos	
18:30-19:00	G. Vasilopoulos	Influential fragments of Philosophical Currents in Health Care Sciences
19:00-19:30	A. Ntalianis	Compulsory medical therapies: Bioethical aspects
19:30-20:00	Discussion	





September 16, 2022

Friday

08:45-09:30	MORNING SCHOOL F. Gruber: moderator E. Tschachler <i>How to write a paper</i>
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09:30-11:10	CELLULAR SENESCENCE, AGING AND CANCER I Chairpersons: D. Kletsas, E. Polychronopoulos		SESSION 2.1
09:30-09:50	S. Werner	The bright and the dark sides of NRF2 activation in the skin (<i>virtual</i>)	
09:50-10:10	P. Martin	Reprogramming macrophages to make them more effective at killing cancer - studies in zebrafish and human cells (<i>virtual</i>)	
10:10-10:30	D. Kletsas	Effect of UVB on skin fibroblast homeostasis: from cell death to premature senescence	
10:30-10:50	E. Polychronopoulos	Medis Study Follow up'. Elderly Survival, Lonfevity in the Covid 19 ERA. Alleviation of Commorbidities, Underlying Cancer Burden, Implenetation and dissemination of European Code Against Cancer	

10:50-11:20	Coffee break
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11:20-11:50	LECTURE OF THE DAY Chairperson: J. Sastre F. Gruber: Adaptations in lipids and metabolites in stress and aging
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11:50-12:50	CELLULAR SENESCENCE, AGING AND CANCER II Chairpersons: I. Trougakos, V. Pekovic-Vaughan		SESSION 2.2
11:50-12:10	I. Trougakos	NRF2 in stress, aging and age related diseases	
12:10-12:30	V. Pekovic-Vaughan	NRF2 signalling in the skin at the crossroads between circadian clock and extracellular matrix regulation	
12:30-12:50	A. Kalezic	Respiration uncoupling: curious mechanism of redox-metabolic regulation in breast cancer	



15:25-15:30	A. Karagianni	Photophysical properties of nanohybrid materials based on “nitrogen, phosphorus co-doped carbon quantum dots-zinc phthalocyanine” (<i>virtual</i>)	
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15:30-16:30	OXIDATIVE STRESS AND SKIN: INFLAMMATION, DIABETES AND SKIN DISEASES		
	Chairpersons: A. Korac, E. Fischer-Fodor		

15:30-15:50	C. Demonakos	The biological function of multiprotein complexes is regulated by selective recruitment of redox responsive components in breast cancer	SESSION 2.4
15:50-16:10	E. Fischer-Fodor	Ferroptosis as druggable target in skin diseases	
16:10-16:30	A. Korac	Correlative collagen imaging in experimental diabetes	

16:30-17:00	Coffee break		
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17:00-19:20	WOUND HEALING		
	Chairpersons: A. Veves, E. Zouridaki		

17:00-17:20	K. Mumcuoglu	Maggot therapy in the treatment of intractable chronic wounds	SESSION 2.5
17:20-17:40	M. Mildner	A secretome based approach to improved wound healing and scar formation	
17:40-18:00	M. Ogrodnik	The p-rpS6-zone limits senescence in wounds and delineates the healing process	
18:00-18:20	H. Weavers	Leukocyte self-defence during development and tissue repair (<i>virtual</i>)	
18:20-18:40	I. Vlachos	The resolution revolution: studying cellular and transcriptional mechanisms in situ with spatial tissue profiling (<i>virtual</i>)	
18:40-19:00	M. Bei	Ion channels as modulators of skin wound healing process	
19:00-19:20	G. Theocharidis	Healing fibroblasts: a novel concept for accelerating diabetic wound repair (<i>virtual</i>)	

19:20-20:00	WOUND HEALING OPEN DISCUSSION		
	Chairpersons: A. Veves, E. Zouridaki		

21:00...24:00	Movie & Drinks		
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September 17, 2022

Saturday

08:45-09:30	MORNING SCHOOL <i>Scientific misconduct</i>
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09:30-09:50	SPECIAL LECTURE Chairperson: A. Tagka S. Geronikou: <i>The Precision era tools and challenges</i>
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09:50-10:50	THE EPILIPIDOME IN SKIN STRESS, AGING AND DISEASES Chairpersons: A. Nicolaou, F. Gruber	
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09:50-10:10	T. Haarmann-Stemmann	Exposure to airborne PAHs shapes cutaneous prostaglandin D2 metabolism: Impact for the pathogenesis of atopic dermatitis	SESSION 3.1
10:10-10:30	A. Nicolaou	The impact of ageing on the cutaneous lipidome - implications for barrier function (<i>virtual</i>)	
10:30-10:50	S. Letsiou	Plant and algae lipidomics in skin function (<i>virtual</i>)	

10:50-11:00	Coffee break
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11:00-11:30	LECTURE OF THE DAY Chairperson: B. Korac J. Sastre: <i>p53 and mitochondrial ROS drive necroptosis</i>
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11:30-13:00	RADIATION THERAPIES AND NANOPARTICLES Chairpersons: R. Gorodetsky, I. Baldea	
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11:30-11:50	R. Gorodetsky	Allogeneic human placental stromal cells injections as indirect therapy for the protection of the skin from severe damages following high dose irradiation	SESSION 3.2
11:50-12:10	L. Baciou	Could pre-irradiation be a way to boost immunity weakened by radiotherapy?(<i>virtual</i>)	





12:10-12:30	I. Baldea	Anticancer effects induced by magnetic hyperthermia using functionalised magnetic nanoclusters - in vitro study
12:30-12:45	A. Markouizou	The effect of irradiation on the skin upon breast cancer radiotherapy
12:45-13:00	A. Katopodi	Development of Solid Lipid Nanoparticles incorporating bioactive coumarin analogues as photosensitizing agents

SPECIAL LECTURE		
Chairperson: D. Kletsas		
13:00-13:30	K. Scharffetter-Kochanek: Update on cellular senescence and aging (virtual)	

13:30-14:30	Lunch	
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POSTER SESSION III			
Chairpersons: M. Mildner, A. Varvaresou			
14:30-15:00			POSTER SESSION III
14:30-14:35	A. Drolapas	Development of novel nanosystem for bio-imaging and photodynamic cancer therapy: The case of β -cyclodextrin inclusion complexes with a near-infrared cyanine-type photosensitizer (virtual)	
14:35-14:40	A. Georgiadi	Curcumin loaded Niosomes in Photodynamic Therapy of skin cancer (virtual)	
14:40-14:45	M. Anagnostou	Traditional uses and pharmacological properties of Stachys taxa	
14:45-14:50	P. Pavlou	Improvement of the efficacy of sunscreen products	
14:50-14:55	N. Stratidakis	A Comparative Clinical Trial to Evaluate wound healing of octenidine gel with dispase gel in Patients with Basal Cell Carcinoma after Cryosurgery treatment	
14:55-15:00	P. Gkagkari	Differential sensitization and irritation study based on non-invasive evaluation methods	

SPECIAL LECTURE		
Chairperson: A. Petri		
15:00-15:20	I. Dadeshidze: COST European Cooperation in Science and Technology and COST Actions: opportunities for biomedical networks and their impact	





SKIN PHOTOBIOLOGY			
Chairpersons: R. Sarkany, E. Alexandratou			
15:20-16:40			
15:20-15:40	R. Sarkany	Mechanisms of UV-induced damage in the skin and the challenge of photoprotection	SESSION 3.3
15:40-16:00	M. Darvin	Red and near-infrared excited autofluorescence as a sign of oxidation processes in skin exposed to cigarette smoke ex vivo and in vivo)	
16:00-16:20	S. Lohan	Development of an in vitro EPR-method for assessing the redox status in blood plasma (<i>virtual</i>)	
16:20-16:40	A. Petri	Latest developments concerning UV and visible radiation health effects and photobiological safety	

16:40-17:00 Coffee break

NATURAL PRODUCTS – ANTIOXIDANTS & DISEASES			
Chairpersons: M. Meinke, N. Chaiikovskaia			
17:00-19:20			
17:00-17:20	M. Meinke	Active natural compounds improve inflammation and barrier properties in vitro and reduces itching and inflammation in in vivo on AD patients	SESSION 3.4
17:20-17:40	N. Aligiannis	Ethnopharmacological approach to the discovery of bioactive natural products against skin disorders	
17:40-18:00	K. Burke	The truth about sunscreen efficacy and environmental safety (<i>virtual</i>)	
18:00-18:20	D. Hadjipavlou-Litina	Discovery and development of thiosemicarbazones as electrospun patches for the local treatment of skin diseases (<i>virtual</i>)	
18:20-18:40	J. C. Hubaud	Pro and anti-radical effects of organic UV filters utilised in solar protection cosmetic products (<i>virtual</i>)	
18:40-19:00	N. Chaiikovskaia	Possibility of organism condition estimation using oxidative stress parameters	
19:00-19:20	V. Raikou	Oxidative Stress and Modern Cosmetology	



<p>19:20-19:50</p>	<p align="center">SPECIAL LECTURE</p> <p align="center">Chairperson: G. Vasilopoulos</p> <p align="center">N.Konstantaras: <i>Theophilos Kairis and the limits of freedom</i></p>
<p>19:50-20:00</p>	<p align="center">CONCLUSIONS</p> <p align="center">Aristidis Veves - Florian Gruber</p>
<p>20:00...</p>	<p align="center">Dinner</p>





September 18, 2022
Sunday

10:00-12:30 **Visit to the museum and the archeological site of Paleopolis**
Guided tour by Prof. L. Paleokrassa

12:30-15:00 **Visit to Monastery of Panachrandos (10th Century) - Lunch**

15:00-... **Optional visits at Goulandrīs- Museum of Contemporary Art and**
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