



7th Joint Meeting of AFERP, ASP, GA, PSE & SIF

NATURAL PRODUCTS

**WITH PHARMACEUTICAL,
NUTRACEUTICAL, COSMETIC
AND AGROCHEMICAL INTEREST**

**Athenaeum Intercontinental
Athens Greece, 3-8 August 2008**

Final Programme

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Ministry of Rural Development and Food
Ministry of Health
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Scientific items

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Welcome from Prof. A.L. Skaltsounis and J. Boustie



Prof. Leandros A. Skaltsounis



Prof. Joël Boustie

Dear Participants

On behalf of AFERP, we are very pleased and honoured to welcome all of you in Athens. This event is the major world-wide rendezvous of Natural Products experts which takes place every 4 or 5 years with the support of their respective Scientific Societies. At this time we acknowledge the participation of the Italian Society of Pharmacognosy (SIF), which joined the American Society of Pharmacognosy (ASP), the Society for Medicinal Plant Research (GA), the Phytochemical Society of Europe (PSE) and AFERP for this meeting.

It is a great honour and opportunity for AFERP to be in charge of the main organisation. AFERP is no longer the French Society of Pharmacognosy since 2001, but the Pharmacognosy Society of French speaking persons. In this opening frame, we decided to organize this joint meeting in Greece for three reasons. The first is that Greece is considered to be at the basis of occidental civilisation and medicine. In the historical city of Athens during the classical period (500-300 B.C.) the Greek philosophers and physicians started to separate the discipline of Medicine from religion, believing and arguing that disease was not a punishment inflicted by the gods, but rather the product of environmental factors, diet and style of life. Four centuries later, a Greek physician, Dioscorides wrote his fundamental work “*ἡ ἐπιλογητικὴ κληρονομία*” *De materia medica* and put the basis of Pharmacognosy. The name of our discipline “Pharmacognosy” derives from two Greek words, “*pharmakon*” meaning drug and “*gnosis*” meaning knowledge. Secondly, as a link between Europe and other Mediterranean countries, Athens is the most suitable city as a world-wide checkpoint to bring together African, American, Asian, Australian and European scientists. Thus, about 1100 participants from 70 countries from all over the world are coming to this congress to attend lectures, debate and initiate fruitful collaborations issuing from the scientific presentations or from the social program. The third reason that led to the choice of Athens as a venue for this congress is the strong historical relationship that exists between the French natural products’ scientific community and the School of Pharmacy of the University of Athens, which dates back over 70 years.

The scientific program deals with all the possible applications of natural products as pharmaceutical, nutraceutical, cosmetic and agrochemical agents. A variety of topics, focused on phytochemistry, bioactivity, new drug sources and drug discovery, traditional medicines, new trends in extraction, separation and structural elucidation processes, biosynthesis and synthesis, will be discussed during the meeting.

Many colleagues from the five scientific societies have contributed to the preparation and organisation of this joint meeting. We specially want to thank the organising and scientific committees and the BoD of the other four Scientific Societies for their constant and active participation in the preparation of this joint meeting. We also want to thank Thieme Publishers for printing the major part of the abstracts in *Planta Medica* and all the sponsors for their generous contributions. Last but not least, the full involvement and commitment of the staff of the department of Pharmacognosy and Natural product Chemistry of the University of Athens to this event is particularly acknowledged.

We wish you all to enjoy a fruitful and stimulating meeting.

Prof. Leandros A. Skaltsounis
University of Athens

Chairman of the Congress

Prof. Joël Boustie
University of Rennes

Co-chairman and AFERP President

By protecting plants,
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PREFACE

Message from the Minister of Health and Social Solidarity of the Hellenic Republic, Mr. Dimitris L. Avramopoulos



Dimitris L. Avramopoulos

Greece is universally known as the birthplace of distinguished doctors, the fathers of modern medical sciences. Ancient Greek scientists like Hippocrates, Dioscorides and Theophrastos offered an invaluable contribution to Medicine, Pharmacy and Pharmacognosy.

The Country's long tradition in the study of natural sources for the discovery of compounds with pharmaceutical interest is honored by the Faculties of Pharmacy at Greek Universities. The Department of Pharmacognosy at the University of Athens took the important initiative to organize the 7th Joint Meeting of the Association Francophone pour l' Enseignement et la Recherche en Pharmacognosie (AFERP), of the American Society of Pharmacognosy (ASP), of the Society for Medicinal Plant Research - Gesellschaft für Arzneipflanzenforschung e.V. (GA), of the Phytochemical Society of Europe (PSE) and of the Società Italiana di Fitochimica (SIF).

A large number of scientists are gathered in Athens to present their papers and to describe current scientific trends in natural products with pharmaceutical, nutraceutical, cosmetic and agrochemical interest, providing opportunities for extensive discussions, exchange of knowledge and ideas and collaboration in the field of research and development.

The Ministry of Health and Social Solidarity supports all efforts that promote scientific research and projects in the vital area of pharmacognosy, pharmacology and related fields.

I wish to all participants a productive and successful organization. The conclusions of the Congress are expected with great interest.

With my warmest regards,
Dimitris L. Avramopoulos
Minister of Health and Social Solidarity

UpSettype

We don't know yet the name of the medicine of the future.
We only know the name of the company.



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PREFACE

Greeting of Mr. Konstantinos Kiltidis, Deputy Minister of Rural Development and Food



Konstantinos Kiltidis

The **7th Joint Meeting of AFERP, ASP, GA, PSE & SIF** is an outstanding world congress and the most important event in the field of natural products. The Greek Ministry of Rural Development and Food expresses the Government's intention to support the research and its outcome on this scientific field.

This congress offers to the international scientific audience a closer look on Greek medicinal plants and traditional agricultural products like olive oil, wine, mastic, and crocus. In addition, Greece is a biodiversity hotspot with a flora of more than 6000 plant species including more than 1000 endemic ones. The preservation of biodiversity combined with the research on aromatic and medicinal plants can lead to new opportunities for the development of high added value products.

The balanced development of local societies, the protection of the environment and the ecosystem, the quality of the products produced, the multi-functioning and the creation of supplementary incomes constitute the principal political directions to be followed in the forthcoming years.

It is a great honor for our country and especially for the University of Athens to host distinguished experts from all over the world and give them the opportunity to present their research work and describe the current scientific mainstream in natural products with pharmaceutical, nutraceutical, cosmetic and agrochemical interest.

As Greeks that honour the hospitality from ancient years, we feel the need to treat a foreigner as a guest. We look forward to welcoming you in Athens, in hope that the 7th Joint Meeting of AFERP, ASP, GA, PSE & SIF, will be a memorable experience.

Konstantinos Kiltidis

Deputy Minister of Rural Development and Food



PREFACE

Message from the Vice-Rector of the National and Kapodistrian University of Athens



D. Assimakopoulos

The National and Kapodistrian University of Athens, founded in 1837, was the first University not only in the Greek State but in all the Balkans and the Eastern Mediterranean in general. Today, the National and Kapodistrian University of Athens is the largest state institution of higher learning in Greece, and one of the largest universities in Europe.

The University of Athens aims at excellence in both teaching and research in a significantly varied range of disciplines and in this frame it is a great honor for our university to organize an outstanding congress like the **7th Joint Meeting of AFERP, ASP, GA, PSE & SIF.**

The Faculty of Pharmacy of our University and especially the Department of Pharmacognosy and Natural Products Chemistry has a long tradition in the study of natural products for the discovery of compounds with pharmaceutical interest and today is one of the most active faculties of our university.

Natural products are an important source of new drugs and an exciting research field.

Our university supports all the activities promoting the research and the knowledge exchange.

I would like to welcome the numerous scientists from all over the world that will be gathered in Athens to present their researches in natural products with pharmaceutical, nutraceutical, cosmetic and agrochemical interest.

I wish to all organizers and participants a successful meeting

D. Assimakopoulos

Vice Rector for Financial Affairs and Development
of the National and Kapodistrian University of Athens

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PREFACE

Message de bienvenue de Son Excellence Monsieur l'Ambassadeur de France à Athènes,



Christophe Farnaud

C'est avec grand plaisir que je salue l'organisation à Athènes, cette année 2008, par les sociétés américaine et européennes de pharmacognosie et de chimie des substances naturelles, de leur congrès international placé cette année sous l'égide de l'Association Francophone pour l'Enseignement et la Recherche en Pharmacognosie (AFERP), coordonnatrice de la manifestation.

L'emploi des substances d'origine naturelle s'inscrit dans une tradition très ancienne. Transmis de génération en génération, les savoir-faire traditionnels peuvent maintenant être étudiés et exploités de manière rationnelle grâce aux avancées des sciences : ces produits à valeur culturelle forte représentent aujourd'hui un marché en croissance exponentielle qui allie la notion de patrimoine à l'innovation technologique.

Hier constitutives d'un socle de valeurs culturelles, "les saveurs, les senteurs et la médecine par les plantes" ont fondé les échanges commerciaux, ont inspiré les poètes et légitimé le développement des sciences.

Aujourd'hui, ces végétaux récoltés ou cultivés depuis si longtemps par l'homme constituent les matières premières d'une industrie sophistiquée en termes de compétences, de technologies employées et d'excellence sanitaire requise. Il s'y joint une recherche en phase avec l'époque contemporaine où l'homme prend conscience de la nécessité d'entretenir dans sa vie, un équilibre subtil, - social, environnemental et économique -, avec son écosystème. En un mot, une industrie au développement durable si tant est que la biodiversité est bien protégée!

Je pense que la remarquable audience de votre colloque permettra d'excellents travaux, fertiles et féconds.

Je remercie les organisateurs et les participants de cette manifestation et souhaite à tous de fructueux échanges scientifiques ainsi qu'un excellent séjour chez nos amis en Grèce.

Welcoming message by his Excellency the Ambassador of France in Athens, Mr Christophe FARNAUD

It is a great pleasure for me to greet the organization in Athens of the joint meeting of the American and European societies of pharmacognosy and natural products chemistry. This congress is held under the auspices of the French "Association Francophone pour l'Enseignement et la Recherche en Pharmacognosie" (AFERP), which is responsible for the organization for the year 2008.

Historically, the use of natural products relies on very old traditions, which were transmitted at first orally and later in a written form. The knowledge compiled by folk medicine and ancient civilisations can now be rationally explored and exploited, thanks to the continuous progress of science. Consequently, these products of high cultural value also currently represent a market of increasing value, which associates both cultural heritage and innovating technologies.

Naturally occurring drugs of vegetal origin, collected by Humans since the very beginning of history, are now the starting materials used to obtain products which quality, safety and efficiency constantly improved because of sophisticated industrial processes and methodologies. These products being one of the most important links between man and Nature, they stand as additional evidence for the urgent need of a strong protection of the biodiversity.

I do hope that this meeting, which brings together eminent experts and scientists in the field of natural products, will be a unique opportunity to develop fruitful collaborations and give stimulating ideas for future research.

I should thank the organizers and the audience for this wonderful meeting and wish you a very agreeable stay with our friends in Greece.

Christophe Farnaud
Ambassador of France in Athens

Effective And Natural Care: Certified Organic Sun Care Products By APIVITA.



Athens-based APIVITA, since 1979, is inspired by the bee, Greek flora and Hippocrates' holistic view on health and beauty to create **natural and effective** products for hair, skin and body.

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- More than **30 years proven experience** and knowledge of traditional recipes, using unique combinations of natural active ingredients and bee products to holistically approach health and beauty.
- **Flexible R&D team** with solid experience resulting in more than 100 new products annually.
- New developments leading to **increased level of naturalness in products** such as innovative preservation systems, emulsifying systems and active ingredients.
- Extensive ingredient testing and deep understanding of extracts and essential oils: **More than 5.000 ingredients have been tested** in APIVITA's laboratories and more than 1500 ingredients have been used in products.
- **In-house development** of plant extracts and oils. More than 60 plants have been studied and more than 100 extracts have been developed since 1979.

The EU and Greek government have assigned seven research programs on Greek plant ingredients to APIVITA in collaboration with the University of Athens (1995-2006), which resulted in scientific publications and innovative applications.

APIVITA stays away from synthetic ingredients such as propylene glycol, parabens, and silicones. In most formulas, water has been replaced by infusions of rosemary, green tea, hamamelis and calendula, adding their essential properties into the base of the products.

APIVITA, in an effort to protect the environment and support sustainable development, uses more readily extracts and essential oils from certified organic plants. Recently, the company launched two organic sun care products, certified by ICEA/AIAB (Italy). In April, it was named as one of the thirteen "natural beauty pioneers still leading the way" by Global Cosmetic Industry magazine (GCI).

Today, more than 250 APIVITA products are available in 4000 pharmacies in Greece and in 19 countries worldwide.



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VENUES, REGISTRATION AND INSTRUCTIONS

Congress Venue

Athenaeum Intercontinental Hotel
89-93 Syngrou Avenue
117 45 Athens, Greece
<http://www.athens.intercontinental.com>

University of Athens
Central Building
30 Panepistimiou str.
Athens, Greece

Registration and information desk opening hours:

Sunday,	August 3, 2008	15h00-20h00 Intercontinental
Monday,	August 4, 2008	07h45-19h30 Intercontinental
Tuesday,	August 5, 2008	08h00-19h30 Intercontinental
Wednesday,	August 6, 2008	08h00-19h30 Intercontinental
Thursday,	August 7, 2008	08h00-19h30 Intercontinental

Instructions fororal contributions

The duration of a lecture is 35 min, and of a short lecture 10 min. All oral presentations at the end will have 5 min for discussion. In the interest of smooth functioning of scientific meetings, it is very important to keep to the allotted speaking times. Chairpersons are kindly requested to secure that time limits allotted to each speaker are kept.

For oral presentations basic audiovisual equipment, such as PC, Video data projector will be available. Please bring the ppt-file of your presentation (preferably in Windows XP format for PC use) the latest at the morning of the day you have to give your lecture. You will not allowed to use your own laptop for your presentation. If you require a slide projector or overhead projector, please contact the Congress Secretariat as soon as possible.

...poster contributions

The size of the posters should be 0.84m (33 inch) x 1.20m (47 inch) (width x height), equivalent to A0size. Posters presenters are kindly requested to follow the below instructions:

- All posters ending in an odd number e.g. PA1, PA3, PA5... will be presented on Monday 4th and Tuesday 5th of August . The posters should be mounted on Monday morning and dismounted on Tuesday after the end of the poster session I. You are requested to be present next to your poster during the poster session Tuesday 5th of August from 17h10 to 18h45
- Subsequently, all posters ending in an even number e.g. PA2, PA4, PA6... will be presented on Wednesday 6th and Thursday 7th of August. The posters should be mounted on Wednesday morning and dismounted on Thursday after the end of the poster session II. You are requested to be present next to your poster during the poster session Thursday 7th of August from 14h30 to 16h00.
- Authors are kindly requested to affix their posters on the predetermined poster board which will be numbered according to the code number of their abstract.
- The code number of each abstract will have been placed on each poster board by the Organizer.
- All material needed for the poster affixing will be provided to authors by the Congress Secretariat which will be operating at the Congress Venue.
- Poster area is Omikron, VIP-Lambda-Omega and Theta-Sigma-Delta Meeting Rooms (refer to floor plan given in pages 36-37)

SCIENTIFIC PROGRAMME

Sunday, August 3rd, 2008			
12h00 - 14h00	Registration for Workshops Participants		University central building
15h00-20h00	REGISTRATION		INTERCONTINENTAL Hotel
13h00 - 17h00	WS 1: Workshop on Regulatory Affairs on Herbal Medicinal Products (HMPs) "Medicinal Herbs: drugs or dietary supplements? What are the legal consequences in terms of quality, safety and efficacy of each option?"	Panelists: Vlietinck A, Knöss W, Sievers H, Frankos V, McGuffin M	University central building
13h00 - 17h00	Workshop for young researchers	Chair: Bilia AR	University central building
20h00-23h00	WELCOME PARTY		Roof Garden of "ETHNIKI ASFALISTIKI" Conference Center

Monday, August 4th, 2008			
7h45-19h30	Registration		INTERCONTINENTAL Hotel
08h30 - 19h30	Exhibits open		INTERCONTINENTAL Hotel
08h30 - 9h10	Opening ceremony Chair: Skaltsounis L, Boustie J	Personalities Presidents of Associations	INTERCONTINENTAL Hotel BALLROOM I-II-III
09h10-10h30	Award Session Chair: Baker B, Tillequin F.		BALLROOM I-II-III
09h10	ASP Research achievement AWARD: Discovery of Inspirational Marine Natural Products: Some Effective Paradigms and Significant Outcomes	Crews P	AWL2'
09h50	AFERP Joseph Pelletier AWARD: Diversity of plant nitrogenous compounds: recent results from biodiversity	Bodo B	AWL3
10h30 - 11h00	COFFEE BREAK (SETTING Posters ODD numbers)		
11h00 - 13h00	Award Session Chair Kopp B, Kruger R, Pieters L, Roussis V		BALLROOM I-II-III
11h00	PSE AWARD Silver medal: New frontiers in the quality of herbal medicinal products (HMPs)	Vlietinck A	AWL1
11h40	GA Honory membership		
11h50	AWARD ESA Gold		
12h05	Travel Grants Announcement		
12h10	AWARD ESA Bronze		
12h20	Willmar Schwabe AWARD		
13h00 - 14h30	LUNCH		
13h00-14h30	JNP Meeting		KAPPA

*AWL: Award lecture, L: lecture, SL: Short lecture

SCIENTIFIC PROGRAMME

14h30 - 16h30	<i>Opening Lectures Health improvement through dietary phytochemicals Cell cycle and natural products Biosynthesis and biomimetic synthesis of natural products Chair: Molinski T, Pieters L</i>			BALLROOM 1-2-3
14h30	Plant derived ligands of nuclear receptors and their biological effects	Gustafsson JA	L1	
15h10	Cyclin-Dependent Kinases (CDKs) in human disease: the therapeutic potential of pharmacological inhibitors	Meijer L	L2	
15h50	The isolation, structural assignment, and biological properties of (-)- oleocanthal: a natural NSAID found in extra virgin olive oil	Smith AB III	L30	
16h30 - 17h00	COFFEE BREAK			
17h00- 19h45	PARALLEL SESSION 1 <i>Chair: David B, Wang Y From the field collections to clinical trials: Industrial and academic approaches. Examples of Drug Discovery from screening and bioguided approaches.</i>			BALLROOM II
17h00	Natural product sources and the biodiversity convention	David B	L3	
17h20	Alkaloid semisynthesis: searching for anticancer drugs	Fahy J	L4	
17h40	Sustainable development of natural product research in drug discovery	Wang Y	L5	
18h00	Phylogeny and Chemography	Backlund A	SL64	
18h15	Screening of a natural compound library for potential protein kinase inhibitors	Issinger OG	SL1	
18h30	Discovery of new secondary metabolites mediating insect-microorganism symbioses	Oh DC	SL2	
18h45	Automated natural product extract screening using ¹H NMR	Colson KL	SL3	
19h00	Bioactivity-guided isolation of cytotoxic constituents of <i>Brucea javanica</i> collected in Vietnam	Kingham AD	SL4	
19h15	Anticancer drug discovery from filamentous fungi	Oberlies NH	SL5	
19h30	The island Madagascar a megadiversity area, kingdom of novel leads for drug development	Andriantsiferana M	SL15	
17h00-19h45	PARALLEL SESSION 2 <i>Traditional medicine, ethnopharmacology, Pharmacology of natural products Chair: Houghton P, Pizza C</i>			BALLROOM I
17h00	The World Traditional Medicine Patent Database	Liu Y	SL7	
17h15	TCM collaborative R&D of Traditional Chinese Medicine Program for international cooperation in science and technology - Herbalome Project	Liang X	SL8	
17h30	Ethnomedical investigation of plants from Central America for women's health	Mahady GB	SL9	
17h45	The genetic basis for bioactivity in the traditional medicine plants of Australia	Ingrey SD	SL11	

SCIENTIFIC PROGRAMME

18h00	Examination of adaptogenic effect of infusions of <i>Bergenia crassifolia</i> black and fermented leaves in the forced swimming test	Shikov AN	SL12	
18h15	Triterpenoid saponins from the cytotoxic root extract of <i>Sideroxylon foetidissimum</i>, an endemic Yucatecan medicinal plant	Sánchez-Medina A	SL13	
18h30	Andhira: from biodiversity to chemo diversity – the database of Sardinian endemic plants and their molecules	Floris M	SL14	
18h45	Early antiviral activity of CYSTUS052 against H5N1 influenza virus is more efficient compared to oseltamivir	Planz O	SL108	
19h00	Study of antihypertensive activity of <i>Elaeocarpus ganitrus</i> water extract in renal artery-occluded hypertensive rats	Juvekar MR	SL28	
19h15	Analysis of medicinal potions currently used in the Mayan traditional medicine	Vera-Ku M	SL10	
19h30	Free radical scavenging activity of two medicinal plants used by diabetic patients in Botswana	Motlhanka DM	SL084	
17h00-19h45	PARALLEL SESSION 3 <i>Pharmacology of natural products and herbal drugs Chair Alexis M, Blaschek W</i>			BALLROOM III
17h00	Molecular basis of Tocotrienols activity in modulating the growth and proliferation of breast cancer cells	Virgili F	L7	
17h20	Phytochemicals as modulators of hormone physiology	Vollmer G	L8	
17h40	Indirubin derivatives inhibit SFKs/Stat signalling with apoptosis in human cancer cells	Nam S	L10	
18h00	Pro-apoptotic properties of vitamin E isomers and novel derivatives in prostate cancer	Constantinou C	L9	
18h15	Hedgehog signalling inhibitors isolated from myxomycetes and a Solanaceae plant	Ishibashi M	SL16	
18h30	Modulation of innate immune cell activation and function by Polysaccharide Krestin (PSK)	Wenner CA	SL17	
18h45	Quercetin suppresses pro-inflammatory cytokine release in human respiratory cells infected with rhinovirus and morbidity and mortality in mice infected with influenza virus	Gangemi JD	SL18	
19h00	Molecular Interactions of Artemisinin with DNA and Specific Target Proteins in Cancer Cells	Efferth T	SL19	
19h15	Discovery of a novel cannabinoid in food	Gertsch J	SL20	
19h30	The impact of sesquiterpene lactones on the expression of NF-κB1 and inflammatory genes controlled by NF-κB	Gusenleitner S	SL114	
20h30 - 23h15	SOCIAL EVENT	DORA STRATOU Theater		

Tuesday, August 5th, 2008				
08h00-19h30	Registration			INTERCONTINENTAL Hotel
08h30 - 19h30	Exhibits open			INTERCONTINENTAL Hotel

SCIENTIFIC PROGRAMME

08h30 - 10h30	<i>New sources of bioactive natural products / Marine Pharmacognosy</i> Chair: Munro M, Blunt J			BALLROOM I-II-III
08h30	New antibiotics and antitumor agents from the deep oceans	Fenical W	L31 (BA)	
09h10	Wars in the sea: chemical weapons from microalgae, macroalgae and seagrasses	Cimino G	L11	
09h50	Chemistry and biology of bioactive natural products from marine and other sources	Kobayashi J	L12	
10h30-11h00	COFFEE BREAK			
	<i>Drug discovery from natural sources</i> Chair: Kinghorn AD			BALLROOM I-II-III
11h00	Marchantiophyta and inedible mushrooms: marvellous sources of bioactive molecules	Asakawa Y	L13	
11h40	HPLC-based profiling for natural products leads – GABA_A receptor modulators and PI3 kinase inhibitors	Hamburger M	L14	
	<i>Quality of Herbal Drugs</i> Chair: Quetin-Leclercq J			BALLROOM I-II-III
12h20	Methodologies for the quality assessment of medicinal plants and phytopharmaceuticals	Hostettmann K	L15	
13h00 - 14h30	LUNCH			
14h30 - 17h10	PARALLEL SESSION 1			BALLROOM I
	<i>Natural products with agrochemical interest</i> Chair: Wolfender JL			BALLROOM I
14h30	Phytochemicals for pest management	Duke SO	L16	
	<i>Natural products with cosmetic interest</i> Chair: Martin R			BALLROOM I
15h10	A multifactorial anti-acne extract for a multifactorial pathogenesis	Mandeu A	SL21	
15h25	Research for plant active ingredients of cosmetic interest: Innovation process for a cosmetic company	Milesi S	SL22	
15h40	The effect of a highly purified betulin-based triterpene extract on human keratinocytes and epidermal Langerhans cells ex vivo and in vivo	Wölflé U	SL23	
	<i>Pharmacology of Natural Products and Herbal drugs</i> Chair: Bilia AR, Butterweck V			BALLROOM I
15h55	New options for the treatment of functional gastrointestinal diseases with the phytomedicine STW 5	Kelber O	SL24	
16h10	Herbal medicine in bowel diseases: Mechanisms of action of STW 5 in colonic inflammation	Abdel-Aziz H	SL25	
16h25	The aqueous willow bark extract STW 33-I has anti-cancer and anti-inflammatory properties comparable to Aspirin and diclofenac	Metz J	SL26	

*BA: Book of abstracts (Not published in Planta Medica)

SCIENTIFIC PROGRAMME

16h40	Spasmolytic effects of STW 5 and its components on ileal contractions induced by acetylcholine, prostaglandin F2α and substance P	Wald K	SL27	
16h55	Clean recovery of flavonoids from citrus peel: studying lipid-flavonoid interactions as a tool for understanding the antioxidant activity	Londoño J	SL83	
14h30 - 17h10	PARALLEL SESSION 2 <i>Drug discovery from Natural sources</i> Chair: Heinrich M, Oberlies N			BALLROOM II
14h30	Antibacterials from plants – new templates to counter bacterial resistance	Gibbons S	L17	
15h10	A role for non-alkaloidal constituents in the antibacterial activity of Hydrastis canadensis	Cech NB	SL29	
15h25	Chemistry, ecological and biological activity of geranylinalool diterpene glycosides	Jassbi AR	SL121 (BA)	
15h40	Anti-infective compounds from South African plants	Van Heerden FR	SL31	
15h55	Use of Efflux Pump Inhibitors (EPIs) to overcome bacterial Multi-Drug Resistance (MDR): plants as a source of chemodiversity and their adaptive response toward bacterial stress	Michalet S	SL68	
16h10	Phytochemistry and chemotaxonomy of the Madagascan <i>Cedrelopsis</i>	Mulholland DA	SL33	
16h25	New anticancer drugs derived from plant hormones	Strnad M	SL34	
16h40	Further study on the chemistry and standardization of Noto Ginseng	Yang CR	SL75	
16h55	Studies on standardized extracts of Schisandra chinensis	Yin J	SL104	
14h30 - 17h05	PARALLEL SESSION 3 <i>New trends in extraction, separation processes and structure elucidation</i> Chair: Bolzani VS, Mikros E			BALLROOM III
14h30	Identification of an apple juice compound directly in the ¹H-spectrum of the mixture with hyphenated techniques and push button NMR: example fruit juice screening	Humpfer E	L18	
14h50	Development of quantitative ³¹P NMR methods for the trapping of phenoxy & ketyl free radicals	Argyropoulos DS	SL35	
15h05	Isolation and characterization of complex oligomeric type-A proanthocyanidins from Cinnamon: Applications of high field multidimensional NMR.	Tempesta MS	SL122 (BA)	
15h20	Isolation and characterization of complex oligomeric proanthocyanidins from grape: applications of CCC and high field multidimensional NMR methods.	Killday KB	SL36	
15h35	¹H nuclear magnetic resonance fingerprinting of the responses of <i>Lemna minor</i> L. to xenobiotics	Aliferis KA	SL37	
15h50	Simultaneous monitored fractionation and structural identification of bioactive molecules from crude plant extracts using on-line preparative liquid chromatography coupled to mass spectrometry	Toribio A	SL123 (BA)	
16h05	Advanced Analytical Technology as Applied to Natural Products for Drug Discovery: Segment Deux	O'Neil-Johnson M	SL38	

SCIENTIFIC PROGRAMME

16h20	Quantification of Activin® grape seed extracts for procyanidin composition with reverse phase and normal phase HPLC	Glinski JA	SL39	
16h35	Pharmacoproteomic and toxicoproteomic study of the natural product Ebenfuran III in DU-145 prostate cancer cells using iTRAQ with 2D LC and tandem mass spectrometry	Garbis DS	SL40	
16h50	Comparison of gene- and protein expression profiles of a standardized willow bark extract with Quercetin and non-steroidal antiinflammatory drugs in human chondrocytes	Ulrich-Merzenich G	SL41	
17h10	COFFEE BREAK			
17h15 - 18h45	POSTER SESSION 1 (ODD NUMBERS)			
18h45 - 20h15	AFERP MEETING			BALLROOM I
18h45 - 20h15	GA MEETING			BALLROOM II
18h45 - 20h15	SIF MEETING			BALLROOM III

Wednesday, August 6th, 2008

08h00 - 19h30	Registration			INTERCONTINENTAL Hotel
08h30 - 19h30	Exhibits open			INTERCONTINENTAL Hotel
	<i>New sources of bioactive natural products: from biodiversity to chemodiversity</i> Chair: Issinger OG, Michel S			BALLROOM I-II-III
08h30	Chemical and biological diversity from the rain forest	Kingston DGI	L19	
09h10	Bioactive natural products from plant origin: 1) biological screening 2) rational design of antitubulin agents	Guéritte F	L21	
09h50	In the footsteps of Linnaeus – an integrated view on Pharmacognosy	Bohlin L	L23	
10h30 - 11h00	COFFEE BREAK (SETTING POSTERS EVEN NUMBERS)			
	<i>Modern approaches to traditional medicines</i> Chair: Bauer R			BALLROOM I-II-III
11h00	Modern research of traditional chinese medicine-case studies of Salvia and Ganoderma	Guo De-an	L32 (BA)	
11h40	Mexican copalchis (Rubiaceae): One hundred years of research of a medicinal plant complex	Mata R	L20	
	<i>Health improvement through dietary phytochemicals</i> Chair: Virgili F			BALLROOM I-II-III
12h20	Translational investigations of turmeric supplements for arthritis treatment: A review of lessons learned	Timmermann BN	L22	
13h00 - 14h30	LUNCH			
14h30 - 16h40	PARALLEL SESSION 1 <i>New trends in extraction, separation processes</i> Chair: Marston A, Tempesta M			BALLROOM I
14h30	New trends in extraction and separation processes	Bombardelli E	L24	

SCIENTIFIC PROGRAMME

15h10	Reversible adsorption of natural extract on polymeric resin	Joron L	SL43	
15h25	A supercritical licorice (<i>Glycyrrhiza uralensis</i>) extract inhibits growth of oral pathogens and reduces LPS-induced cytokine secretion by macrophages and whole blood	Gafner S	SL44	
15h40	Supercritical carbon dioxide extraction of bioactive flavonoids from <i>Strobilanthes crispus</i>	Md Salleh L	SL45	
15h55	Microwave-assisted extraction of volatile substances from natural sources	Bergamelli F	SL47	
16h10	Effect of the extraction method on the lignan yield from different plant materials	Willför S	SL48	
16h25	Microwave-assisted extraction of glucosinolates from <i>Eruca sativa</i> seeds and soil	Omirou M	SL124 (BA)	
14h30 - 16h40	PARALLEL SESSION 2 <i>Biosynthesis and biomimetic synthesis of natural products</i> Chair: Haroutounian SA, Walker L			BALLROOM II
14h30	Natural products: lessons from total synthesis	Theodorakis EA	L33 (BA)	
15h10	Natural product modulators of neurodegenerative disease provide insights into mechanisms of neuroprotection	Graziani E I	SL125 (BA)	
15h25	Towards the biomimetic total synthesis of Meioigynine	Fomekong Fotsop D	SL49	
15h40	Topical anti-inflammatory activity of boropinic acid and of its natural and semi-synthetic derivatives	Epifano F	SL51	
15h55	NMR Studies, Solid Phase Synthesis and MD/SA Simulation as a Tool for Structural Elucidation of New bioactive Peptides from the Latex of <i>Jatropha curcas</i> L.	Altei WF	SL65	
16h10	Synthesis of the ¹³ C labelled tryptophan catabolites kynurenine, N'-formylkynurenine and 3-hydroxykynurenine	Maschek JA	SL126 (BA)	
16h25	Rationally designed Tocotrienol analogues in order to enhance their antiproliferative activity	Orabi A	SL50	
14h30 - 16h30	PARALLEL SESSION 3 Chair: Roth-Ehrang R			BALLROOM III
14h30 - 15h55	<i>WS2: Innovation by cooperation</i> <i>Innovation by cooperation: An example for the development of a refined Valerian extract with a new field of application</i>	Panelists: Feistel B, Hattesoehl M, Kennedy DO		
	<i>Development of new phytopharmaceuticals</i> Chair: Lacaille-Dubois MA			
15h55	A rapid HPTLC method for detecting 5% of adulteration of <i>Cimicifuga racemosa</i> (A. racemosa) with <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. dahurica</i> , or <i>C. americana</i>	Ankli A	SL42	
16h10	Development of new phytopharmaceuticals – Bioassay guided medicinal plant breeding and extract development as a tool for quality improvement	Berger Bueter K	SL120 (BA)	
16h25	Phytoequivalence in the global marketplace for botanical products: chemical and biological characterization of <i>Equisetum arvense</i> extracts from America, Asia, and Europe	Lee S	SL62	
16h40 - 17h00	COFFEE BREAK			
17h00 - 19h45	PARALLEL SESSION 1 <i>New trends in extraction, separation processes and structure elucidation</i> Chair: Tsarbopoulos A, Wright A			BALLROOM I

SCIENTIFIC PROGRAMME

17h00	Structure elucidation of small molecules with subsequent MS ⁿ and accurate mass	Katzlinger H	SL128 (BA)	
17h15	Advanced mass spectrometry techniques for identification, characterisation and structural elucidation of natural products	Volmer DA	SL53	
17h30	UPLC-TOF-MS for high resolution plant metabolite profiling and metabolomics	Wolfender JL	SL54	
17h45	Role of LC/UV/MS ² in the search for antiplasmodial Polycyclic Polyprenylated Acylphloroglucinols	Marti G	SL55	
18h00	Screening potential inhibitors against Alzheimer's amyloidosis using electrospray ionization mass spectrometry	Bazoti FN	SL56	
18h15	Negative ion 'chip-based' nanospray tandem mass spectrometry for the analysis of flavonoids in glandular trichomes of <i>Lychnophora ericoides</i> Mart.	Lopes NP	SL57	
18h30	Novel LC-MS/MS approaches for metabolite identification of natural compounds, such as curcumin and analogues, with anticancer activity	Tamvakopoulos C	SL58	
18h45	Bioavailability of Echinacea alkaloids in human breast milk	Matthias A	SL59	
19h00	Metabolism of Echinacea alkaloids by human recombinant P450 enzymes	Toselli F	SL60	
19h15	Chemotypic variations of the essential oils of <i>Mentha taxa</i> collected in the Marmara region of Turkey	Baser KHC	SL61	
19h30	Target fishing for constituents from <i>Ruta graveolens</i> using a virtual parallel screening approach	Rollinger JM	SL63	
17h00-19h45	PARALLEL SESSION 2 <i>Biosynthesis and biomimetic synthesis of natural products</i> Chair: Marakos P, Poupon E			BALLROOM II
17h00	Eco-compatible syntheses of pharmaceutical and natural molecules via microwave-assisted chemistry	Besson T	SL52	
17h15	Semi-synthetic optimization of cinnabaramide-type proteasome inhibitors	Bitzer J	SL127 (BA)	
17h30	Degradation and partial reconstruction (C3-C14) of cytotoxic macrolide palmerolide A	Lebar M	SL67	
17h45	The first enantiomeric discorhabdin alkaloids and determination of absolute configuration using TDDFT calculations of electronic circular dichroism data	Copp BR	SL32	
18h00	Configuration of natural products: Liposomal circular dichroism (LCD) for acyclic stereocenters	Molinski TF	SL69	
18h15	Microbial transformation of nerylacetone by fungal strains	Gliszczynska A	SL70	
18h30	Stereochemistry in lignan biosynthesis	Fuss E	SL71	
18h45	Biosynthesis of Antimalarial Aryltetralone Lignans from <i>Holostylis reniformis</i>	Lopes LMX	SL72	
19h00	Pyrrolylpolyenes from Fungi: Biosynthesis and Analogue Production	Clark BR	SL73	
19h15	Bioconversion of deoxydopodophyllotoxin into epidopodophyllotoxin in <i>E. coli</i> using human cytochrome P450 3A4	Kayser O	SL74	
19h30	Analysis of expressed sequence tags (EST) from <i>Panax quinquefolium</i> root	Chen S	SL129 (BA)	

SCIENTIFIC PROGRAMME

17h00-19h40	PARALLEL SESSION 3 <i>Pharmacology of natural products and herbal drugs</i> Chair: Bucar F, Khan IA			BALLROOM III
17h00	Natural product based urease inhibitors for the treatment of ulcers	Choudhary MI	L25	
17h40	Effects of Hop (<i>Humulus lupulus</i> L.) and Sesame (<i>Sesamum indicum</i> L.) enriched diet on xenobiotic-metabolizing enzymes in female rat livers	Girard C	SL76	
17h55	A pilot randomized placebo controlled trial of 2 Aloe vera supplements in patients with pre-diabetes/metabolic syndrome	Devaraj S	SL77	
18h10	Plants for diabetes: Identification of plant extracts and metabolites as partial PPAR γ agonists with potential anti-diabetic effects	Christensen KB	SL79	
18h25	In vivo antioxidative activity of a <i>Pueraria lobata</i> root extract in a diabetic rat model	Pieters L	SL80	
18h40	Uterine effects of the phytoestrogens 8-prenylnaringenin and 6-dimethylallylnaringenin in vivo	Zierau O	SL81	
18h55	Analysis of 1,3-cyclopentadienes from hops and proanthocyanidins from <i>Acacia nilotica</i> and their combined efficacy in treating metabolic syndrome and hypercholesterolemia	Carroll BJ	SL82	
19h10	A novel standardized chromone extract (UP780) from Aloe regulated adiponectin production and improved insulin resistance	Yimam M	SL78	
19h25	New Cucurbitane triterpenoids from bitter melon with potent antidiabetic properties associated with activation of AMPK	Ye Y	SL30	
19h45-21h15	ASP MEETING			BALLROOM II

Thursday, August 7th, 2008

08h00-19h30	Registration			INTERCONTINENTAL Hotel
08h30-18h30	Exhibits open			INTERCONTINENTAL
08h30-11h15	PARALLEL SESSION 1 <i>Health improvement through dietary phytochemicals</i> Chair: Wenner C, Zierau O			BALLROOM I
08h30	A review: Nutraceuticals as adjunctive therapy for the management of obesity	Bhatti WH	SL85	
08h45	Improvement of menopausal symptoms by soy isoflavones: a randomized double-blind study	Schmidt M	SL86	
09h00	Clinical effect of phytosterol containing milk on serum cholesterol	Wang CK	SL87	
09h15	Mechanistic studies on anticancer benzophenones from Clusiaceae fruits	Kennelly EJ	SL88	
09h30	Cyanobacteria used as a dietary item in highland Peru produce the non-protein amino acid BMAA	Johnson HE	SL90	
09h45	Improved cognitive performance and mood in healthy adults following acute consumption of a cocoa flavanol-rich drink	Haskell CF	SL91	
10h00	Antioxidant activities of phytochemicals from five flavonoid groups in a heme-amyloid β -enhanced oxidation reaction	Vieira A	SL92	

SCIENTIFIC PROGRAMME

10h15	Inhibition of the L-type calcium channel by a standardised <i>Olea europaea</i> leaf extract: A phytochemical and electrophysiological examination	Rauwald HW	SL93	
10h30	Nutraceutical interest of phytoecdysteroid in <i>Microsorium</i> species of French Polynesia	Raharivelomanana P	SL94	
10h45	Determination of aneugenic 2,4-Dihydroxy-7-methoxy-1,4-benzoxazin-3-one (DIMBOA) and 2,4-dihydroxy-1,4-benzoxazin-3-one (DIBOA) contents in sprouts of various <i>Triticum</i> species	Prinz S	SL95	
11h00	Organic and herbal ingredient trends in North America	Pontiakos G	SL131 (BA)	
08h30-11h15	PARALLEL SESSION 2 (Marine & Fungi Compounds) <i>New sources of bioactive natural products</i> Chair: Capon R, Ireland C			BALLROOM II
08h30	Australian marine biodiscovery	Capon RJ	SL96	
08h45	Bioactive natural products from marine cyanobacteria: new structures and modes of action	Luesch H	SL97	
09h00	Potential ecological role, chemistry and molecular modelling studies of secondary metabolites isolated from the tropical marine sponge <i>Cymbastela hooperi</i>	Wright A	SL98	
09h15	Marine-derived <i>Penicillium</i> sp.: fungal diversity as a promising source of bioactive compounds	Grovel O	SL99	
09h30	Cytotoxic macrolides from benthic <i>Amphidinium</i> dinoflagellate	Tsuda M	SL100	
09h45	Salarins and Tularins; new cytotoxic sponge derived nitrogenous macrolides	Kashman Y	SL101	
10h00	Biologically active cyanobacteria metabolites – Ecological and biomedical perspectives	Carmeli S	SL102	
10h15	Bioprospection of cytotoxic compounds in the Brazilian endemic tunicate <i>Eudistoma vancouveri</i>	Jimenez PC	SL103	
10h30	Investigations into the cytotoxic effects of Australian indigenous mushrooms	Tiralongo E	SL105	
10h45	Bioactive secondary metabolites from an Endolichenic Fungus, <i>Corynespora</i> sp. inhabiting the Cavem beard Lichen, <i>Usnea cavemosa</i>	Paranagama PA	SL106	
11h00	Novel unusual alkaloids from the rare mushroom <i>Pseudobaeospora pyrifer</i> (Agaricales)	Quang DN	SL132 (BA)	
08h30-11h15	PARALLEL SESSION 3 <i>Pharmacology of Natural Products and Herbal drugs</i> Chair: Gafner S, Ishibasi M			BALLROOM III
08h30	Cholinesterase inhibiting Bisbenzylisoquinoline alkaloids from <i>Cocculus pendulus</i>	Atia-tul-Wahab	SL107	
08h45	A herbal preparation Imupret® inhibits LPS and IL-1β-induced release of IL-8 and human β-defensin 2 in lung epithelial A549 cells	Hostanska K	SL109	
09h00	Potential of St. John's wort as antistress medication	Butterweck V	SL110	
09h15	Boswellic acids from the anti-inflammatory remedy frankincense: Identification and functional analysis of novel molecular targets within the arachidonic acid cascade	Siemoneit U	SL111	
09h30	Pharmacological and toxicological studies on anticancer properties of piplartine	Costa-Lotufo LV	SL112	

SCIENTIFIC PROGRAMME

09h45	Nitric oxide production by several cytotoxic sterols and triterpenes	Martinez-Vazquez M	SL113	
10h00	Chemical evaluation of cimicifugic acids and serotonergic activity of <i>Cimicifuga racemosa</i> roots	Goedecke T	SL115	
10h15	Tyrosinase inhibition by extracts and constituents of stem bark of <i>Sideroxylon inerme</i> L.	Houghton PJ	SL116	
10h30	Atypical parkinsonism induced by Annonaceae: Where are we yet?	Champy P	SL117	
10h45	Salvia phytomedicines: from the "salväre" properties to demonstration of some pharmacological effects	Fernandes-Ferreira M	SL118	
11h00	Assessment of antioxidant activity of plant extracts by a combination of molecular methods	Kouretas D	SL130 (BA)	
11h15-11h45	COFFEE BREAK			
11h45-13h05	<i>Biosynthesis and biomimetic synthesis of natural products.</i> Chair: Verpoorte R			BALLROOM I-II-III
11h45	Unravelling polymeric proanthocyanidin structure via synthesis	Ferreira D	L28	
12h25	The methylerythritol phosphate pathway, a novel metabolic route towards the isoprene units in bacteria and plant plastids	Rohmer M	L29	
13h05-14h30	LUNCH			
14h30-16h00	POSTER SESSION 2 (EVEN NUMBERS) <i>Drug discovery from natural products</i> Chair: Curini M			BALLROOM I-II-III
16h00	Molecular targets of natural drug substances	Imming P	L26	
16h40	Innovative strategies for the discovery of lead structures from nature	Stuppner H	L27	
17h20-18h20	<i>Award session</i> Chair: Baker B, Kopp B, Roussis V			
17h20	ASP Matt Suffness Young Investigator Award Discovery and development of novel agents to treat drug abuse	Prisinzano TE	AWL4	
17h40	PSE Apivita AWARD- Cyclotides – Circular plant peptides for protein engineering	Göransson U	AWL5	
18h00	GA award ESA Bronze			
18h20	Closing ceremony-Concluding remarks Chair: Skaltsounis L, Boustie J	Presidents of Associations		
20h15 departure	GALA DINNER			ISLAND club

Friday, August 8th, 2008

Departure from Piraeus port	ONE DAY CRUISE TO HYDRA, POROS, AEGINA			
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WORKSHOPS

Young Researcher and Regulatory Affairs on Herbal Medicinal Products workshops will be organized on 3rd August 2008 in the central University building (30 Panepistimiou str., metro station: Panepistimio).

Young Scientists Workshop

Chairman: A.R.Bilia

This special workshop for young researchers is organized as a pre-symposium on Sunday 3rd of August, 2008.

Registration for this workshop is necessary for all participants. The workshop is restricted to diploma and Phd students and serves as an opportunity for them to give an oral presentation and to discuss special issues, problems and unclear results related to their work. The presentations (15 min) will be commented upon by experienced panellists and time for general discussion will be provided. The workshop will serve as a forum to share methodologies and knowledge of instruments, as well as means of expanding personal knowledge and to expand their studies by acquiring ideas in a constructive and divers environment. The best oral presentation will be selected and awarded. A young researcher will also be selected and awarded for the most valuable involvement in the discussion.

Workshop on Regulatory Affairs on Herbal Medicinal Products (HMPCs)

“Medicinal Herbs: drugs or dietary supplements? What are the legal consequences in terms of quality, safety and efficacy of each option?”

Chair: S. Alban

Panelists: A. Vlietinck, W. Knöss, H. Sievers, V. Frankos, M. McGuffin.

Programme

13:00	Introduction (S. Alban)
13:05	A. Vlietinck, Member of the Committee of Herbal Medicinal Products (HMPC), European Medicines Agency (EMA) - Viewpoint of the European Regulatory Authorities
13:30	W. Knöss, Federal Institute for Drugs and Medical Devices (BfArM), Germany - Viewpoint of the German Regulatory Authorities
13:55	H. Sievers, Phytolab GmbH & Co, KG, Germany - Viewpoints of the Pharmaceutical Industry in Europe
14:20	Coffee break
14:50	V. Frankos, Director, Division of Dietary Supplement Programs, USA - Viewpoint of the US Regulatory Authorities
15:15	M. McGuffin, President of the American Herbal Products Association (AHPA), USA - Viewpoint of the US Industry
15:40	Panel discussion
16:50	Conclusions (S. Alban, A. Vlietinck). Registration for this workshop is necessary for all participants

SOCIAL PROGRAMME

WELCOME PARTY-Sunday August 3, 2008, 20h00-23h00

The welcome party takes place in the Roof Garden of “ETHNIKI ASFALISTIKI” Conference Center (just 5 min walk from Athenaeum Intercontinental Hotel) which is the last work of the famous architect Mario Botta. The Roof Garden offers a magnificent view to Acropolis. Finger food and drinks will be served with the companion of a musical duet.

Traditional Greek dance show (dinner included) – Monday August 4, 2008, 20h30-23h30

The traditional Greek dance show takes place in the DORA STRATOUE Theater. The show includes folklore dances and music from several Greek regions. A famous dance group with impressive dresses will perform a unique programme.

The theatre is located in a 20 min walk distance from the metro station “Acropolis” and is highly recommended to take a walk.

When you get out of the metro station “Acropolis” turn left and follow the pedestrian road “Dionysiou Areopagitou” that leads to Acropolis (10-12 min). In that route you can enjoy Greek neoclassical architecture and some famous houses like the one of the music composer “Vangelis” and the ancient theatre of “Herodion”. When you arrive close to the entrance of Acropolis turn left uphill to “Filopapou hill” and follow the signs to “Dora Stratou” theatre (5-7 min). Transportation will be provided. Relevant information on the transportation plan will be announced at the Congress Secretariat announcement board.

Upon arrival Greek food will be served in a beautiful surrounding at 20.30-21.30.

The traditional Greek dance show will start at 21.45

Tickets will be given to each participant upon registration

Congress Dinner – Thursday August 7, 2008, 20h15

The congress dinner is organized at the seaside club “ISLAND”, a club with a magnificent view to the Saronic Gulf.

The place has a unique Greek style architecture and decoration. The menu will be mainly Mediterranean cuisine.

A DJ with a selection of music promises to make this dinner unforgettable.

Access only with the special buses departing from Athenaeum Intercontinental Hotel or by taxi (around 45 min ride).

Vouchers to participants who have already paid will be given upon registration

Departure: 20h15 Intercontinental hotel

Return: 23h30-24h00

EXCURSION on 8 August, 2008

One day cruise to Hydra, Poros, Aegina

In the morning the ship sails for the three beautiful islands of the Saronic Gulf.

The order in which we shall visit the islands is either Poros – Hydra – Aegina or Aegina – Poros – Hydra which does not change the duration of stay on any of the islands. Within 2 hours, we will arrive to the island of Poros, the smallest of the three islands, separated from the Peloponnese by a narrow strait and offering a most enchanting view of Poros Town. Your leisure time in Poros will be about 50 minutes. An hour and 15 minutes later, we enter the port of Hydra, whose amphitheater shape once served as a safe shelter for Saronic Pirates. From the decks, you will be able to admire the very special architecture and dramatic landscapes of this island, whose old traditional stone houses and mansions silently stand witness to a long and turbulent history. You will have about 1 hour and 30 minutes at leisure to enjoy the unique charms of Hydra and while returning back on board you will receive a homecoming welcome. After a two hour trip we shall arrive to our last port of call, the island of Aegina. AEGINA is the largest of the three islands. Apart from its harbor there are numerous interesting sites to discover on the island. After such a full and enjoying day, the ship will depart for the port of Piraeus.

Participants who are already booked to the cruise will receive their vouchers at the Congress Secretariat.

Participants who wish to join us to the cruise are kindly requested to proceed to the Congress Secretariat.

OTHER EXCURSIONS

- **Athens sightseeing (daily in the morning)**

This tour gives you an opportunity to observe the striking contrasts that make Athens such a fascinating city. Our expert guides take you to see the center of the city, Constitution Square (Syntagma), the House of Parliament, the Memorial to the Unknown Soldier and the National Library. Driving down Herod Atticus street, you will see the Evzones in their picturesque uniform and the Presidential Palace. On your way to the acropolis you will see the Hadrian's Arch, visit the Temple of Olympian Zeus and you will make a short stop at the Panathenaic Stadium where the first Olympic Games of the modern era were held in 1896. On the Acropolis visit the architectural masterpieces of the Golden Age of Athens: the Propylaea, the Temple of Athena Nike, the Erechtheion, and finally "the harmony between material and spirit", the monument that "puts order in the mind", the Parthenon. You complete the visit with the Museum of Acropolis.

- **Athens by night (daily in the evening)**

The tour starts with a visit to the main Greek port of Piraeus, passing by the most important points of the city (City Hall, picturesque yacht's harbour of Microlimano etc). Following the principal avenues and passing by the Temple of Olympian Zeus, National Garden, Parliament, Tomb of the Unknown Soldier, Catholic Cathedral, Academy, University, National Library, Old Parliament we arrive at Plaka. Short pleasant walk through the old unique Athens city to one of the popular taverns for dinner with live bouzouki music and Greek folk dances.

- **Wine tasting and Ancient Corinth (open only on Friday)**

Driving along the coastal road, we reach Corinth canal (short stop). Drive to the Ancient Corinth where St. Paul lived and preached. Ancient Corinth was one of the most important cities of ancient Greece. We will visit the Agora and One of the most outstanding monuments of pre-Roman period, the temple of Apollo. Then we will continue to visit one of the most famous winery of NEMEA. Greece may well possess first place in the hierarchy of countries known for their tradition in viticulture. Not only is this due to Greeks producing wine since the Neolithic Age - 4000 B.C. - but also to the fact that wine has long been adored, praised and chanted in the name of god Dionysos.

Nowadays, Greek wine production, abiding by tradition but invigorated by modern technology, offers a wide variety of fine wines. NEMEA is one of the most popular vineyards in Greece. We will visit the state of the art winery facilities. We will learn everything for the production of Greek quality red wine and then we will proceed to the underground cellars with more than 1000 French oak barriques. Finally we will taste some of the best wines of the domain.

- **One day excursion to Delphi**

Drive through the fertile plain of Boeotia, crossing the towns of Thebes connected with the tragedy of King Oedipus - Levadia and Arachova (short stop on the way back). Arrive at Delphi, the center of Ancient World - the "Omphalos" ("Navel of Earth) - whose prestige extended far beyond the boundaries of the Hellenic World. On the slopes of Mount Parnassus, in a landscape of unparalleled beauty and majesty, lie the ruins of the Sanctuary of Apollo Pythios. Visit the Treasury of the Athenians, the Temple of Apollo and the Museum containing such masterpieces of Ancient Greek sculpture as the bronze Charioteer and the famous athlete Aghias. Lunch in the modern village of Delphi, return to Athens by the same route.

- **One day excursion to Argolis**

Leave by the coastal road along the Saronic Gulf to the Corinth Canal, which connects the Aegean Sea with the Ionian Sea, (short stop). Drive to Mycenae, the Homeric city of Atreides - the city "rich in gold" of the ancient's poets. Visit the Lion's Gate, the Cyclopean Walls, and the Royal Tombs e.t.c. Depart for Nauplion through the fertile plain of Argolis, the picturesque town nestling at the foot of a cliff crowned by the mighty ramparts of the Palamidi Fortress. Afternoon, leave for Epidaurus to visit the Theatre (4th century B. C.) famous for its astonishing acoustics. Return to Athens by the National road connecting Epidaurus with Corinth. Lunch in Mycenae or in Nauplion.

NOTE: All excursions include English speaking guide, bus transfer, entrance tickets (where applicable). At "Athens by night" excursion drinks are not included.

Participants who have already submitted participation to the above mentioned excursions are kindly requested to proceed to the Social Events Desk in order to submit their preferable date for the excursion. Participants who wish to book one of the above excursions are kindly requested to proceed to the Social Event Desks.

GENERAL INFORMATION

THE CITY OF ATHENS

The city of Athens is an exciting and vibrant city of the 21st century, which along with the treasures of art, history and architecture represents more than 3000 years of Hellenic and Byzantine culture, a city where a world of antiquity, myth and legends blends harmoniously with the modern way of life, is the ideal setting for such an important event. Athens is a city, which combines a rich archeological past, and the modern infrastructure. Athens hosted the *Olympic Games* in 2004 and major projects have radically transformed the city into an ultra modern capital of southeast Europe.

THE VENUE

No wonder the Athenaeum InterContinental has been named Greece's leading hotel time and again. Athens' largest guest rooms, fine dining venues and a central location appeal to business and leisure travellers alike. Within a few kilometres are the Acropolis, the Parthenon, the Temple of Apollo and the Plaka. Metro and tram stations are also nearby. The Athenaeum InterContinental is renowned as a top business hotel in Greece. Within the city of Athens it boasts the best conference facilities, the largest ballroom accommodating up to 1.800 persons, the most spacious guest rooms plus Club InterContinental floors providing the best Club product in the city with exclusive complimentary services. With its 543 rooms the Athenaeum InterContinental can satisfy the most demanding conference organisers and delegates. The award winning Premiere is the hotel's fine dining roof top restaurant with stunning views of the Acropolis. Cafezoe, designed by the renowned architect Tony Chi, offers all day dining. Adjacent to Cafezoe, is the outdoor pool which operates from May - September, weather permitting. The ToBar is a contemporary and fashionably furnished bar. WiFi wireless internet connection is accessible throughout the hotel.

OFFICIAL LANGUAGE

The official language of the Congress will be English. There will be no provision for translation in other languages.

INTERNET

Computers with internet access will be provided at the Internet corner next to Congress Secretariat (-1 level)

SPEAKERS READY DESK

Speakers Ready Desk will be located outside Ballroom Meeting room. Speakers and kindly requested to proceed to the Speakers Ready Desk in order to test their presentations and give them to the appointed staff. Please do not forget to mention to the designated staff the time of your presentation and the name of the meeting room as well.

BADGES

Badges will be given to all registered participants upon registration at the Congress Secretariat. Please bear always visible your badge in order to gain access to the Conference and other events.

CERTIFICATE OF ATTENDANCE

A Certificate of Attendance will be given to each registered participant at the last day of the conference.

BANKS

Banks in Greece operate daily except from Saturday and Sunday. The opening hours are as follows:

Monday - Thursday	08.30h - 14.30h
Friday	08.30h - 13.30h

ELECTRICITY

Electricity current in Greece is 220/240 AC/50Hz. The plugs have 2 or 3 round pins similar to those in many European countries.

GETTING TO ATHENS

Arrival by air

Athens is connected by air directly with most European Countries. Direct flights are also available from New York on OA, DL and CO and from Philadelphia on US. From the other States of USA and from other continents you can reach Athens on connection flights through most European countries.

Athens Airport

The Athens International Airport "Eleftherios Venizelos" is located in Spata (appr. 45 min drive from Athen's city center)

GENERAL INFORMATION

From Airport to Athens City Center

- By bus:** Three express lines serve the Athens International Airport to Athens City Center and the port of Piraeus on 24 hour basis. The ticket costs **3.20€**. The bus line E95 (Direction Syntagma) serve Athens City Center (Syntagma Square). An average journey by taxi from Athens International Airport to Intercontinental Hotel or Syntagma Square should cost approximately **30 to 35 €** per way.
- By metro:** You can reach the Athens City Center by metro. The ticket cost **6€**.

Transport to the venue

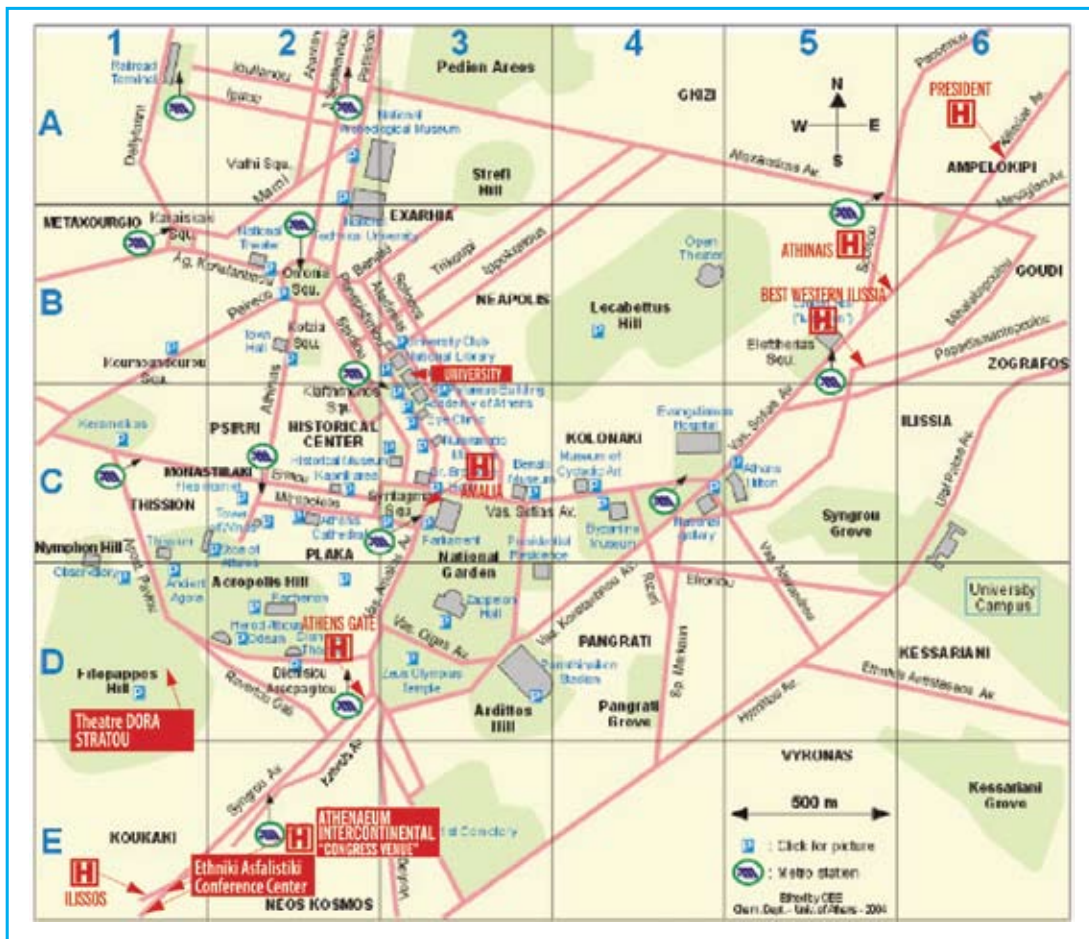
You can get to Athenaeum Intercontinental Hotel:

- By metro:**
Station Name: SYNGROU FIX, Distance 1km South to Hotel
Direction: Follow Syngrou Avenue towards Piraeus (10 min walk)
- By tram:**
Station name: KASOMOULI
Direction: station is just one block away from Hotel entrance (300m)
- By Bus:**
Station name: PANTEIOS (just opposite to the hotel)
Buses: 040 Piraeus - Syntagma / 550 P. Faliro - Kifissia

Athens public Transport

Athens greater area is covered by a vast network of transportation of all kind. The cost of the ticket is **0.80€** and it is valid for all public transport (bus, metro, tram except the lines connecting Athens city and the airport) for 1,5hour. Day ticket for all transport costs **3€** (except airport buses) Weekly ticket costs **10€**
 Night buses are: 500 Piraeus – Kifisia, X14 Kifisia - Syntagma Square, 040 Piraeus - Syntagma Square. From Friday to Sunday the tramway is operating a night service from Glyfada - Syntagma and Syntagma - Peace and Friendship Stadium.

LOCAL MAP-VENUE MAP



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FUNCTIONAL FOODS and

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Over the last several years, an increased number of people have adopted a **healthy way of life in order to prevent diseases**. In the frame of this trend, the demand of dietary products, has increased.

The **functional foods** are similar in appearance with the common foods or may be conventional foods which are consumed as part of the usual diet, but apart from their dietary usefulness they help the physiological functions of the human body and/or reduce the incidence of chronic illness.

The **Kaplanidis group** launched new products based on flour enriched in isolated functional plant extracts rich in bioactive substances proved to be active as strong antioxidants and cardioprotectors.

The **Kaplanidis group** is collaborating with established research groups (Prof. D. Kouretas, Dept. Biochemistry-Biotechnology, University of Thessaly, Greece and is participating in research projects funded by EU*

* 1. Stagos D, Kazantzoglou G, Theofanidou D, Kakalopoulou G, Magiatis P, Mitaku S, Kouretas D. Activity of grape extracts from Greek varieties of *Vitis vinifera* against mutagenicity induced by bleomycin and hydrogen peroxide in *Salmonella typhimurium* TA102. *Mut Res* 2006, 609:165-175.

2. Stagos D, Spanou C, Margariti M, Stathopoulos C, Mamuris Z, Kazantzoglou G, Magiatis P, Kouretas D. Cytogenetic effects of grape extracts (*Vitis vinifera*) and polyphenols on mitomycin C-induced SCEs in human blood lymphocytes*. *J Agr Food Chem* 2007, 55: 5246-5252.



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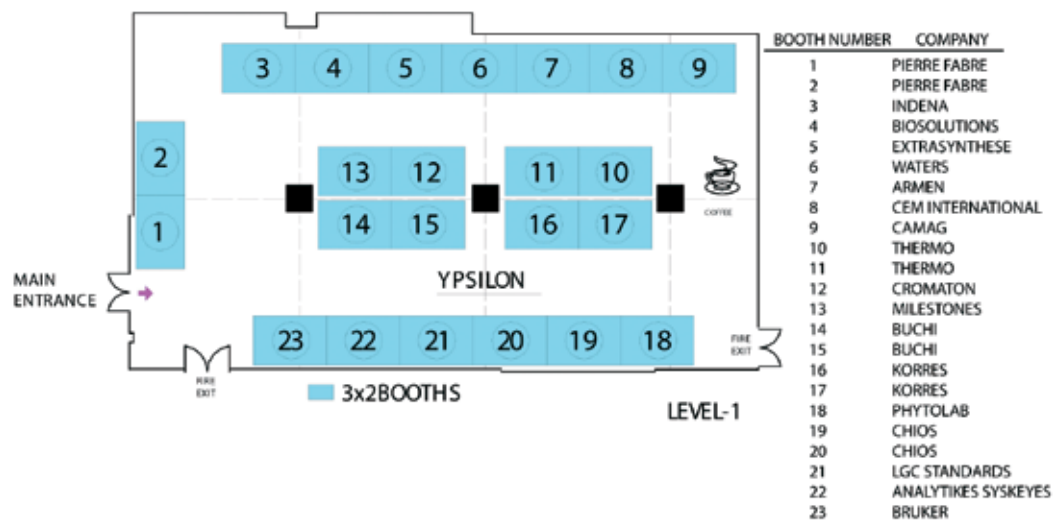
AGROCERT is the Designated Authority for:

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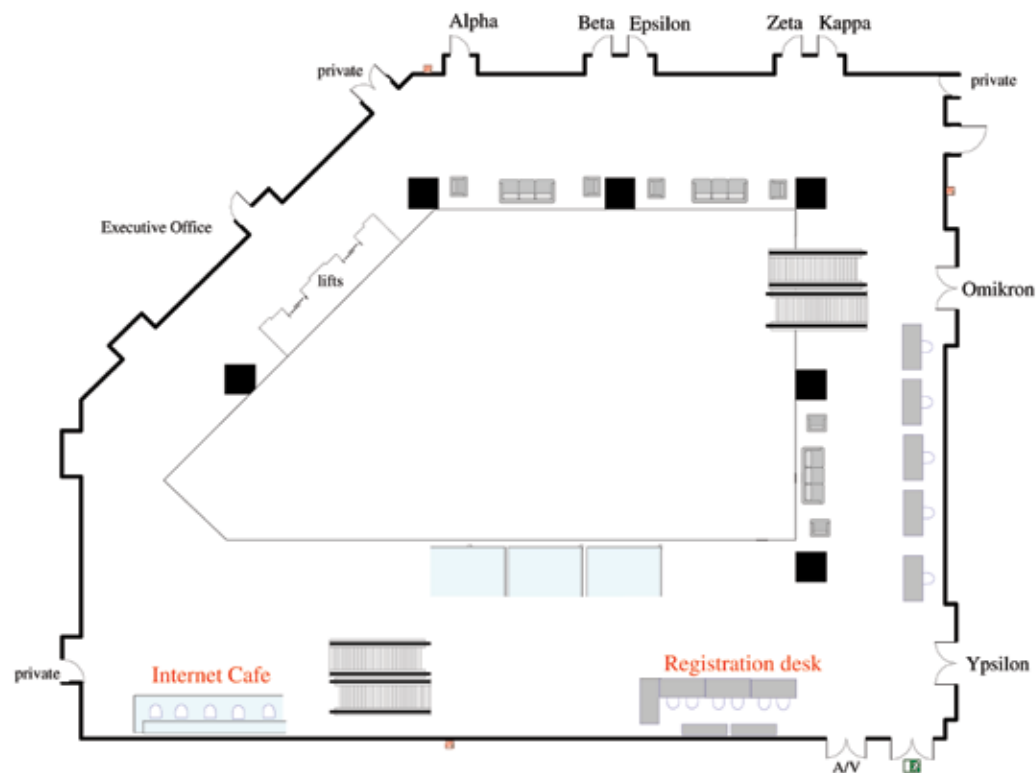
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MEETING AND EXHIBITORS AREAS

Level -1 Ypsilon Room

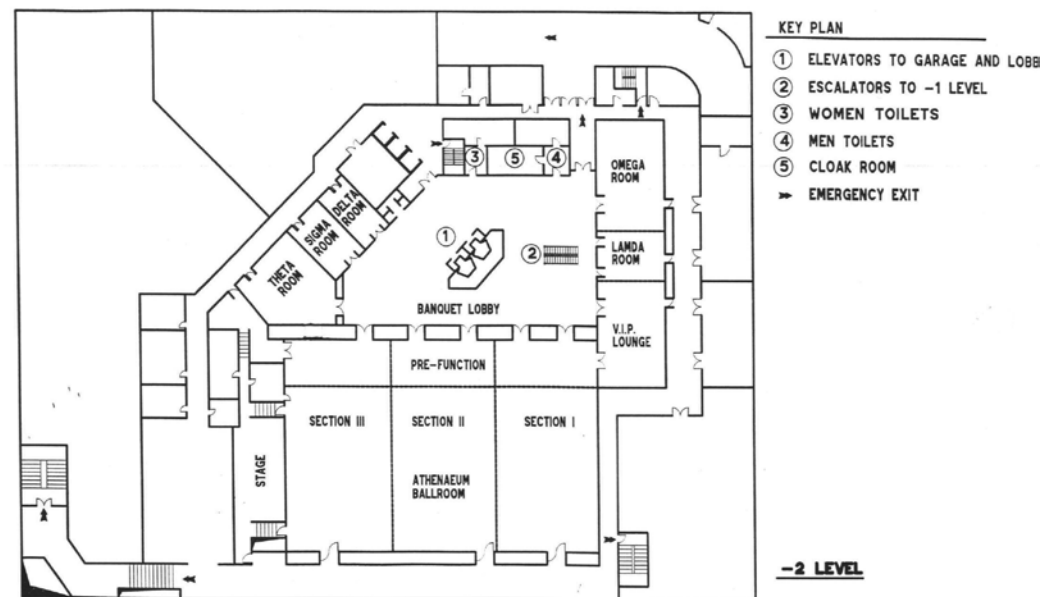


Level -1

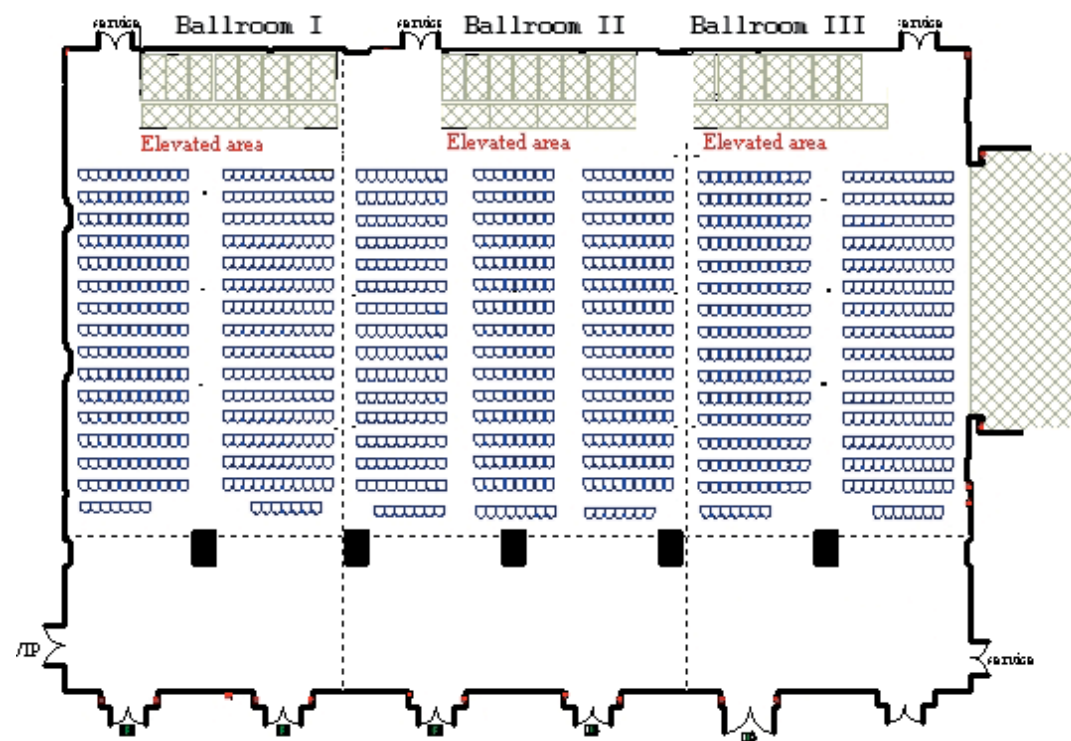


MEETING AND EXHIBITORS AREAS

Level -2



Level -2 Athenaeum Ballroom



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- PA2.** *In vitro* antischistosomal activity of the pimaradienoic acid against *Schistosoma mansoni*
Da Silva Filho AA, Magalhães LG, Ambrósio SR, Simão MR, Severiano ME, Gonçalves UO, Moraes ACG, Rodrigues V, Da Costa FB, Cunha WR, Silva MLA
- PA3.** Antimicrobial activities of *Trichilia heudelotii* (Meliaceae) Planch, a Nigerian medicinal plant
Adeniyi CBA, Moody JO, Adagbasa OO, Ayelaagbe OO, Idowu PA, Idowu O
- PA4.** Powergrape®, a whole grape extract, increases the antioxidant capacity in professional sportsmen during a competition period.
Nardon K, Lafay S
- PA5.** Free radical scavenging activity of two *Hylocereus* species (Cactaceae) and their effect on the proliferation of HeLa and MDA-MB-231 cancer cell lines
Asmah R, Nor Laili M, Mohd Fadzelly AB
- PA6.** Cytopiloyne, a polyacetylenic glucoside from *Bidens pilosa*, modulates T cell differentiation through suppression of IL-12 expression in human dendritic cells
Wei WC, Staniforth V, Yang WC, Sheu JH, Shyur LF, Yang NS
- PA7.** The effects of Siberian pine (*Pinus sibirica* Du Tour) extract on cell viability and its antioxidant activity
Lantto JA, Dorman HJD, Shikov AN, Pozharitskaya ON, Makarov VG, Tikhonov VP, Hiltunen R, Raasmaja A
- PA8.** cancelled
- PA9.** Shikonin can enhance the efficiency of DNA vaccine via induction of Rantes and recruitment of dendritic cells
Chen HM, Yang NS
- PA10.** Antioxidant properties of some Turkish medicinal plants
Tatli II, Sahpaz S, Martin-Nizard F, Sezgin A, Ansan O, Gressier B, Bailleul F, Ezer N
- PA11.** *Ajuga iva* treatment is more effective to improve the antioxidant capacity of red blood cells than that of tissues in hypercholesterolemic rats
Bouderbala S, Lamri-Senhadjji M, Prost J, Lacaille-Dubois MA, Bouchenak M
- PA12.** Leaf and cortex extracts of *Mikania scandens* (Asteraceae) exhibit cytotoxic effects against *Spiroplasma meleagridis* trophozoites from turkey-cock and antibacterial properties
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- PA13.** Inhibition of HIV-1 protease and RNase H of HIV-1 reverse transcriptase activities by long chain phenols from the Sarcotestas of *Ginkgo biloba*
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- PA14.** The anti-staphylococcal activity of new diterpenes from *Pycnostachys urticifolia*
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- PA15.** Cardiovascular action of *Piper longum*
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- PA16.** cancelled
- PA17.** Pharmacology study of *Kalanchoe crenata* (Andr) Haw. (Crassulaceae)
Yimta F, Nguimatsia F, Mbenkum T, Penge A
- PA18.** Chemopreventive effect of *Lawsonia inermis* L. powder in the Epstein-Barr virus early antigen activation assay and the mouse skin two-stage carcinogenesis
Kapadia GJ, Azuine MA, Takayasu M, Konoshima T, Takayasu J, Tokuda H.
- PA19.** Induction of apoptosis and inhibition of proliferation in colon cancer cells by *Salvia fruticosa*, *Salvia officinalis* and rosmarinic acid
Xavier CPR, Lima CF, Fernandes-Ferreira M, Pereira-Wilson C
- PA20.** Antioxidant activity of some Mexican medicinal plants extracts
Bazaldúa GS, Goytia PS, Mendoza DS, Bonilla-Barbosa JR, Hernández-De Jesús ML, Rodríguez-López V
- PA21.** Phytochemical screening, antioxidant and antimicrobial activities of *Berkheya bergiana* leaves
Odeleye OM, Oyedeji AO, Opoku AR
- PA22.** *In vivo* antiplasmodial activity of a crude ethanolic stem bark extract of *Nauclea pobeguini*
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- PA23.** Antimicrobial activity of *Jatropha curcas* L. and *Jatropha multifida* L. against bacteria and fungi s.t.d. organisms
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- PA35.** Usefulness of algal polysaccharides for viral infectious diseases
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- PA37.** Analgesic activity of secondary metabolites from two *Centaurea* species
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- PA38.** Adaptogenic and stamina improving activities of *Rubia peregrina* and *Asparagus acutifolius* in mice
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- PA39.** Suppression of testicular 17 β -HSD3 and hepatic CYP1A2 by a bovine testes extract
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- PA48.** Antiproliferative and apoptotic activities of extracts from carob tree (*Ceratonia siliqua* L.) in MDA-MB-231 human breast cancer cells
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- PA49.** Evaluation of the antimalarial activity of extracts of carob tree (*Ceratonia siliqua* L.)
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- PA52.** Antioxidant activity of ethanolic extracts of *Lavandula* species cultivated in Croatia
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- PA53.** Protective effect of ferulic acid against carbon tetrachloride-induced hepatotoxicity in mice
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- PA78.** Anti-inflammatory and antioxidant activities of *Haplopappus taeda* extracts.
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- PA82.** Evaluation of hypoglycaemic and histopathological effects of "Diabetes 5" in rats
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