

FIRST INTEGRATED SYMPOSIUM ON THE PHYSIOLOGY AND PHARMACOLOGY OF THERMAL BIOLOGY AND TEMPERATURE REGULATION

Hilton Rhodes, Greece, October 10-15, 2004

Second Announcement and Tentative Program

WELCOME

The IUPS Commission on Thermal Physiology decided in its meeting in 1999 in Seville, Spain, that future meetings on Thermal Physiology (initiated in 1968) will be integrated with the Symposia on Pharmacology of Thermoregulation (initiated in 1972). This decision was made as a consequence of the marked changes and advances occurring in biological sciences over the last decades. With the massive research at sub-cellular levels and the penetration of thermal physiology into molecular levels of control mechanisms, the former distinctions in scientific interests have been narrowed. Thus, the proposed synergy ensures promotion of both fields.

SCOPE

To discuss updated issues in temperature control and thermoregulation from the molecular level to the integrative response. Emerging new issues in genomics and proteomics in thermal adaptation, comparative genomics and pharmacogenetics, as well as thermal modeling and applied thermal physiology and pharmacology will be highlighted. The meeting will promote active involvement of all participants in debates and discussions. Specific sessions for graduate/post graduate students will be organized.

Organizing Committee:

Chair, Organizing Committee	Prof. Y. Shapiro	syair@assuta.com
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Symposium Secretariat

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LIST OF CONFIRMED SYMPOSIA

EVOLUTIONARY VS. PHENOTYPIC ADAPTATION TO THERMAL ENVIRONMENTS – GENOMIC AND PROTEOMIC PERSPECTIVES

Organizer: Martin Feder, USA

POST-GENOMIC AND REVERSE GENETICS APPROACHES TO THE MECHANISMS OF
ACQUIRED THERMAL TOLERANCE (*Keynote*)

Andrew R. Cossins, *UK*

ENVIRONMENTAL STRESS RESISTANCE: FROM POPULATION STUDIES OVER CANDIDATE
GENES, QTL TO MICROARRAYS: STUDIES OF SELECTION LINES AND NATURAL
POPULATIONS OF DROSOPHILA

Volker Loeschcke, *Denmark*

A PROTEOMIC APPROACH TO IDENTIFYING THE PROTEINS THAT SET ORGANISMS'
THERMAL LIMITS

Martin Feder, *USA*

A FUNCTIONAL PROTEOMICS APPROACH FOR ASSESSING RESISTANCE MECHANISMS
AGAINST HEPATIC COLD STORAGE INJURY USING MAMMALIAN HIBERNATORS

Hannah V. Carey, *USA*

EVOLUTIONARY ANALYSES OF THERMAL ADAPTATION USING MICROARRAY DATA TO
QUANTIFY GENE EXPRESSION

Douglas L. Crawford, *USA*

FEVER SYMPOSIUM (Part I & II)

Organizer: Clark M. Blatteis, USA

THE CYTOKINE-PROSTAGLANDIN CASCADE IN FEVER PRODUCTION: FACT OR FANCY?

(*Keynote*)

Clark M. Blatteis, *USA*

IS INTERLEUKIN-6 THE NECESSARY PYROGENIC CYTOKINE?

Joachim Roth, *Germany*

PRE-FORMED PYROGENIC FACTOR-INDUCED FEVER: ARE PROSTAGLANDINS
IMPORTANT?

Gloria E.P Souza, *Brazil*

ELEVATED LEVELS OF CIRCULATING CYTOKINES AND ENDOTOXIN ARE NOT NECESSARY
FOR THE ACTIVATION OF THE SICKNESS OR CORTICOSTERONE RESPONSES PRODUCED
BY PERIPHERAL E.COLI CHALLENGE

Monika Fleshner, *USA*

COMPLEMENT IS REQUIRED FOR THE INDUCTION OF ENDOTOXIC FEVER IN GUINEA PIGS
AND MICE

Clark M. Blatteis, *USA*

A ROLE FOR A CYCLOPENTANE PROSTAGLANDIN AS A NOVEL ANTIPYRETIC IN RAT BRAIN

Quentin J. Pittman, *Canada*

ROLE OF CARBON MONOXIDE IN THE THERMOREGULATION AND FEVER

Luiz G.S Branco, *Brazil*

EPOXYEICOSATRIENOIC ACIDS AS MEDIATORS OF ANTIPYRESIS: HOW DO THEY FIT?

Wies Kozak, *Poland*

POSSIBLE SEQUENCE OF PYROGENIC AFFERENT PROCESSING IN THE POA

Clark M. Blatteis, *USA*

GENE EXPRESSION MANIFESTATION DURING THERMOREGULATORY ACTIVITY (Tentative Title)

Organizer: Larry Sonna (Natick), USA

Larry Sonna, *USA (Keynote)*
Pop Moseley, *USA*
Jeff Hasday, *USA*
Michal Horowitz, *Israel*
Steve Schuschereba, *USA*

HEAT-RELATED ILLNESSES

Organizer: Nigel Taylor, Australia

EXTREMES OF HUMAN HEAT TOLERANCE: LIFE AT THE PRECIPICE OF
THERMOREGULATORY FAILURE (*Keynote*)
W. Larry Kenney, *USA*

HOST FACTORS AFFECTING THE INDIVIDUAL'S SUSCEPTABILITY TO HEAT
Yoram Epstein, *Israel*

THE NEUROPHARMACOLOGICAL BASIS OF HEAT INTOLERANCE AND ITS TREATMENT
Mao-Tsun Lin, *Taiwan*

HYDRATION EFFECTS ON THERMOREGULATION AND EXERCISE-HEAT TOLERANCE
Michael N. Sawka, *USA*

INTEGRATION OF OSMOTIC AND THERMAL SIGNALS AT THE LEVEL OF THE PREOPTIC ANTERIOR HYPOTHELAMUS: A MULTIDISCIPLINARY APPROACH

Organizer: Ruediger Gerstberger, Germany

NONLINEAR INTERACTIONS BETWEEN THERMAL, OSMOTIC AND IMMUNE SIGNALS IN
HYPOTHALAMIC NEURONS RECORDED IN RAT BRAIN SLICES
Hans. A Braun, *Germany*

EFFERENT MULTISYNAPTIC PATHWAYS FROM PREOPTIC AREA TO EFFECTOR ORGANS
OF THERMO-AND/OR OSMOREGULATORY IMPORTANCE AS REVEALED BY THE VIRAL
TRACING TECHNIQUE
Thomas Hubschle, *Germany*

WARM AND COLD RECEPTORS
Shigeo Kobayashi, *Japan*

THERMOREGULATORY RESPONSES IN RATS DURING SYSTEMIC SALT LOADING
Masahiro Konishi, *Japan*

THE MEDIAN PREOPTIC NUCLEUS (MNPO) OF THE *LAMINA TERMINALIS* AS HOMEOSTATIC
RELAY STATION: THE ROLE OF NITRIC OXIDE
Ruediger Gerstberger, *Germany*

MODELING IN THERMAL PHYSIOLOGY SYMPOSIUM

Organizers: Daniel Moran, Israel and Richard Gonzalez, USA

SCENARIO REVISITED: COMPARISONS OF OPERATIONAL AND RATIONAL MODELS IN
PREDICTING HUMAN RESPONSES TO THE ENVIRONMENT (*Keynote*)
Richard R. Gonzalez, *USA*

"IMPUTED IM" WITH COMPLETELY IMPERMEABLE ENCAPSULATING PROTECTIVE
CLOTHING
Ralph Goldman, *USA*

Additional topics will be advised.

NEURONAL MECHANISM OF TEMPERATURE REGULATION AND THERMORECEPTION

Organizer: Kazuyuki Kanosue, *Japan*

TRACING BRAIN THERMOREGULATORY PATHWAYS FROM RATS TO HUMANS (*Keynote*)
Robin McAllen, *Australia*

FEVER-INDUCING SYMPATHETIC NEURAL PATHWAYS
Kazuhiro Nakamura, *Japan*

CENTRAL THERMOSENSITIVITY AND THE INTEGRATIVE RESPONSES OF ANTERIOR HYPOTHALAMIC NEURONS
John D. Griffin, *USA*

HYPOTHALAMIC AND BRAINSTEM PATHWAYS CONTROLLING THERMOGENESIS IN BROWN ADIPOSE TISSUE (BAT)
Shaun. F. Morrison, *USA*

COLD-INDICED THERMOGENESIS MEDIATED BY GABA IN THE PREEPTIC AREA
Toshimasa Osaka, *Japan*

SLEEP, CIRCADIAN RHYTHMS AND THERMOREGULATION SYMPOSIUM

Organizer: Eus Van Someren, *Netherlands*

SLEEP, CIRCADIAN RHYTHMS AND THERMOREGULATION (*Keynote*)
Eus J.W. van Someren, *Netherlands*

TEMPERATURE EFFECTS ON CIRCADIAN CLOCKS
Peter Ruoff, *Norway*

NATURAL HYPOTHERMIA AND SLEEP
Tom de Boer, *Netherlands*

SLEEP INERTIA AND THE CIRCADIAN MODULATION OF SLEEPINESS, BUT NOT SLEEP HOMEOSTASIS, IS ASSOCIATED WITH DISTAL VASODILATATION
Kurt Krauchi, *Switzerland*

CIRCADIAN CLOCK AS A THERMOREGULATORY MECHANISM
Kei Nagashima, *Japan*

PERIPHERAL THERMAL CHALLENGE: A TEST OF HEAT LOSS CAPACITY IN SLEEP ONSET INSOMNIACS
Cameron J. van den Heuval, *Australia*

WORKSHOP ON HYPOTHERMIA IN BRAIN TREATMENT

Organizer: Robert Greif, *Austria*

Robert Greif, *Austria*
Michael Holzer
Wilhelm Behringer, *USA*
Dave Warner *USA*

STUDENT-COMPETITION AWARD

The Student-Competition Award will be granted during the Symposium. All submissions for this award will be reviewed prior to the Symposium, out of which six will be selected and will be presented in a special Competition Session. The remaining submissions will be assigned to free communication sessions for lectures.

GENERAL PROGRAM

Sunday, October 10, 2004

20:00 Pre-symposium tour (Optional)
Registration and a Welcome Get-Together at the Hilton Rhodes Hotel

Monday, October 11, 2004

All Day Opening Session
Scientific Sessions
20:30 Reception and folklore show at the Hilton Rhodes Hotel

Tuesday, October 12, 2004

All Day Scientific Sessions
20:30 Authentic Tavern Dinner at the Old City of Rhodes

Wednesday, October 13, 2004

Morning Scientific Sessions
After Lunch Symposium tour in the Ancient City of Lindos:
Drive down to the East coast of Rhodes Island to the village of Archangelo for a visit to the traditional handmade ceramics factory. Continue on to the beautiful village of Lindos. Protected as a UNESCO world heritage site, with some 1000 year-old buildings, towering over the natural harbor and coves, where the Acropolis and Crusader fort are located. Walk along the narrow cobblestone streets and climb the winding steps up to the magnificent Acropolis for a guided tour of the site, which commands a fascinating view of the Aegean Sea below. Drive back to your hotel.

Thursday, October 14, 2004

All Day Scientific Sessions
20:30 Gala Dinner at the Hilton Rhodes Hotel

Friday, October 15, 2004

Morning Scientific Sessions
Afternoon Closing Session

Saturday - Sunday, October 16-17, 2004

All Day Post-symposium tours (Optional)

TOURS FOR ACCOMPANYING PERSONS

Half day Tour to Rhodes City

Tuesday, October 12, 2004

09:00 Depart from your hotel in the morning and drive to the new town of Rhodes, which was built around the walls of the medieval city. Drive up to Monte Smith for a marvelous panoramic view of the town including the Hellenistic Acropolis, the Stadium and the Amphitheatre. Continue on passing the new town with its impressive municipal buildings such as the Town Hall, the National Theatre, the Church of Evangelismos, Prefecture and the Courthouse. Drive on to the d'Amboise Gate of the Old Town, and continue by foot through the narrow cobblestone streets to the museum, which is situated in the Hospital of the Knights and on to the Grand Master's Palace. Drive back to your hotel.

Half-Day Tour to Filerimos and Kamiros

Thursday, October 14, 2004

09:00 Drive down the west coast of Rhodes Island, to the village of Ialysos, one of the three ancient cities that combined to found Rhodes Town. Visit Mount Filerimos, the site of the ancient Acropolis of Ialysos as well as the magnificent Monastery of the Holy Virgin with its re-creation of the Via Dolorosa and beautiful panoramic view of the north-west coast of Rhodes Island. Continue on to Kamiros village, the best-preserved ancient settlement in the world. Proceed on to visit the famous Valley of the Butterflies, the gathering point for a special species of butterflies which fill up the valley during the hot summer months, coating trees and rocks in their multitude of colors. Drive back to your hotel.

GENERAL INFORMATION

Rhodes

Capital of the Dodecanese, the southernmost string of Greek islands, Rhodes is a popular vacation destination. In addition to endless sandy beaches, good hiking, lively taverns and great nightlife, you may wish to explore Rhodes rich collection of historic sites and monuments from ruins of Classical temples to Crusader castles and towns and Ottoman mosques.

Symposium Venue and Accommodation

Symposium Venue - Hilton Rhodes Resort is a 5 star hotel and the Symposium venue. The hotel is set in marvelous landscaped gardens, overlooking the shimmering Aegean Sea and next to the ancient Ialysos. Ideally located on the beach of Ixia, just 4 kilometers from Rhodes town and 9 kilometers from the airport, the hotel is designed to provide the very best of facilities for its guests, with deluxe air-conditioned rooms, indoor and outdoor swimming pools, fitness center and Tennis court.

Nearby Hotels -

Olympic Palace Hotel is a 4 star hotel situated by the beach and within a walking distance (5-8 minutes) from the Symposium Venue. The hotel has comfortable rooms, a swimming pool and a gym.

Belair Beach Hotel is a 3 star hotel situated by the beach and within a walking distance (5 minutes) from the Symposium Venue. The hotel offers spacious rooms, a lounge, a restaurant, bars, and a swimming pool.

In addition to the symposium dates, the organizers have reserved rooms at the above hotels before and after the Symposium, which are available to the participants at special reduced symposium rates when booked through Ortra Ltd., the Symposium Secretariat.

Language

The Symposium official language is English, including lectures and printed material.

Pre and Post-symposium Tours

Pre- and post-symposium tours in Rhodes will be organized for interested participants. For more details please see the "Registration, Accommodation and Optional Tours" page.

Climate and Clothing

Rhodes boasts a wonderful climate with year-round sunshine and warm summer winds. Average temperature in October is 21°C. No rain is expected. Warm clothes are recommended for evenings and tours. Dress will be informal throughout the Symposium.

Weather - www.vacation.net.gr/p/greece.html

Currency and Credit Cards

The unit of currency in Greece is the Euro. US\$1 = €0.80; €1 = US\$1.20 (as of May 2004). There are no restrictions on transfer and use of foreign currencies in Greece. Most international credit cards are accepted. Currency Exchange - www.rubicon.com/passport/currency/currency.htm

Electricity

Electricity in Rhodes is supplied at 220V, 50Hz and has a triple-pin connecting plug.

REGISTRATION, ACCOMMODATION AND OPTIONAL TOURS

The Organizing Committee has appointed **Ortra Ltd.** as the official organizer and travel agent for the Symposium.

Participants are invited to make additional tourist services reservations as desired, such as hotel extensions, regular tours, private car tours, car rentals, touring in limousines with driver/guide, etc.

A. SYMPOSIUM PACKAGES

Rates		Early Registration Until July 9, 2004	Late Registration From July 10, 2004
Hilton Rhodes Hotel (5 star and Symposium venue)	Participant in a double room ²	790 €	840 €
	Participant in a single room	960 €	1000 €
	Supplement for sea view (per room)	115 €	115 €
	Accompanying person in a double room	510 €	530 €
	Student in a single room ¹	780 €	800 €
	Student in a double room ^{1,2}	610 €	630 €
Olympic Palace Hotel (4 star, within walking distance from the Symposium hotel)	Participant in a double room ²	760 €	810 €
	Participant in a single room	905 €	955 €
	Accompanying person in a double room	480 €	500 €
	Student in a single room ¹	725 €	745 €
	Student in a double room ^{1,2}	580 €	600 €
Belair Beach Hotel (3 star, within walking distance from the Symposium hotel)	Participant in a double room ²	730 €	780 €
	Participant in a single room	845 €	895 €
	Accompanying person in a double room	450 €	470 €
	Student in a single room ¹	665 €	685 €
	Student in a double room ^{1,2}	550 €	570 €

Rates for Participants include:

- ✓ Participation in the scientific program
- ✓ 4 lunches and refreshments. (Lunch on Friday, October 15 is not included)
- ✓ 2 receptions on Sunday and Monday, October 10-11, 2004
- ✓ 1 authentic tavern dinner including transportation on Tuesday, October 12, 2004
- ✓ 1 gala dinner on Thursday, October 14, 2004
- ✓ Half-day tour to Lindos
- ✓ 5 nights accommodation at the chosen hotel including breakfast, service charge and taxes
- ✓ Airport transfer to the hotel and back

Rates for Accompanying Person include:

- ✓ Half-day tour to Lindos
- ✓ 2 special half day tours for accompanying persons
- ✓ 2 receptions on Sunday and Monday, October 10-11, 2004
- ✓ 1 authentic tavern dinner including transportation on Tuesday, October 12, 2004
- ✓ 1 gala dinner on Thursday, October 14, 2004
- ✓ 5 nights accommodation in a double room at the chosen hotel including breakfast, service charge and taxes
- ✓ Airport transfer to the hotel and back

Rates for Students include:

- ✓ Participation in the scientific program
- ✓ 4 lunches and refreshments
- ✓ Welcome get-together on Sunday, October 10, 2004
- ✓ 5 nights accommodation at the chosen hotel including breakfast, service charge and taxes
- ✓ Airport transfer to the hotel and back

IMPORTANT NOTES!

1. A person can benefit from a **student rate** only if he/she is a fulltime student up to 35 years old who studies for up to a third degree and upon presentation of a confirmation letter from his/her Professor.
2. Participants requesting to share a double room should specify on their Registration and Tourist Services Form the name of the person they plan to share a room with. The forms should be submitted together. Reservations for shared rooms will not be accepted unless the forms are received together.

B. PRE-SYMPOSIUM TOUR PACKAGE

Full-Day Boat Trip to Symi Island

Saturday, October 9, 2004 – Sunday, October 10, 2004

Saturday, October 9, 2004

Arrival to Rhodes airport and transfer to your chosen hotel. Overnight at your chosen hotel.

Sunday, October 10, 2004

Depart from your hotel to Panormitis for a visit to the famous monastery of St. Michael. After that sail to the main harbour of Symi, one of the most picturesque islands of the Dodecanesc Islands. In Symi you can enjoy lunch in one of the local Taverns overlooking the harbor (Optional), stroll around the local shops or have a swim in the splendid water.

RATES:

	Per Person in a Double Room	Per Person in a Single Room
Hilton Rhodes Hotel (5 star and Symposium venue)	92 € Supplement for sea view 23 € (per room)	126 € Supplement for sea view 23 € (per room)
Olympic Palace Hotel (4 star, within walking distance from the Symposium hotel)	86 €	115 €
Belair Beach Hotel (3 star, within walking distance from the Symposium hotel)	81 €	104 €

RATE INCLUDES:

- Arrival transfer from Rhodes airport to your chosen hotel (included in symposium package)
- Full-day boat tour with an English-speaking escort and transfers
- One night accommodation at the chosen hotel

RATE DOES NOT INCLUDE:

- Lunch, tips, and other personal expenses

NOTE:

- The tour will operate with a minimum of 15 participants

C. POST-SYMPOSIUM TOUR PACKAGES

C.1. Full day Cruise to Marmaris, Turkey

Friday, October 15, 2004 - Saturday, October 16, 2004

Friday, October 15, 2004

Overnight at your chosen hotel.

Saturday, October 16, 2004

Drive to the main commercial port of Rhodes and embark on a hydrofoil for a 40-minute journey to Marmaris. After passport control, continue with a short city tour including a visit to the nearby Icmeler. Drive back to Marmaris and at your leisure visit the narrow city streets, the bustling bazaar and colorful seafront restaurants to have a taste of the traditional Turkish delicacies. In the early afternoon take the hydrofoil back to Rhodes and to your hotel.

RATES:

	Per Person in a Double Room	Per Person in a Single Room
Hilton Rhodes Hotel (5 star and Symposium venue)	98 € Supplement for sea view 23 € (per room)	132 € Supplement for sea view 23 € (per room)
Olympic Palace Hotel (4 star, within walking distance from the Symposium hotel)	92 €	121 €
Belair Beach Hotel (3 star, within walking distance from the Symposium hotel)	86 €	109 €

- RATE INCLUDES:**
- Full-day boat tour with an English-speaking escort and transfers
 - One night accommodation at the chosen hotel
 - Departure transfer from your hotel to Rhodes airport (included in symposium package)
- RATE DOES NOT INCLUDE:**
- Lunch, tips and other personal expenses
 - A port tax of 15 Euros must be paid at Marmaris Port
- NOTES:**
- The tour will operate with a minimum of 15 participants

C.2. Two-Day Tour: Full-Day Cruise to Marmaris, Turkey and Full-Day Guided Island Tour **Friday, October 15, 2004 - Sunday, October 17, 2004**

Friday, October 15, 2004

Overnight at your chosen hotel.

Saturday, October 16, 2004

Drive to the main commercial port of Rhodes and embark on a hydrofoil for a 40-minute journey to Marmaris. After passport control, continue with a short city tour including a visit to the nearby Icmeler. Drive back to Marmaris and at your leisure visit the narrow city streets, the bustling bazaar and colorful seafront restaurants to have a taste of the traditional Turkish delicacies. In the early afternoon take the hydrofoil back to Rhodes and to your hotel. Overnight at your chosen hotel.

Sunday, October 17, 2004

Drive down the west coast of the island to the village of Kremasti for a visit to the famous Panagia (Virgin Mary) Church. Continue on to the small fishing village of Kamiros Skala followed by a visit to the imposing castle of Kritinia. Drive on to the village of Embona to the famous "Emery" wineries and the 16th century church where you can also have lunch (Optional). After lunch continue on to visit the imposing mountain retreats of Profitis Ilias and then onto the isolated late Byzantine monastery of Fountoukli. Last stop is the 7 Springs, a place of breathtaking natural beauty before heading back to the hotel.

RATES:

	Per Person in a Double Room	Per Person in a Single Room
Hilton Rhodes Hotel (5 star and Symposium venue)	192 € Supplement for sea view 46 € (per room)	260 € Supplement for sea view 46 € (per room)
Olympic Palace Hotel (4 star, within walking distance from the Symposium hotel)	181 €	238 €
Belair Beach Hotel (3 star, within walking distance from the Symposium hotel)	169 €	215 €

- RATE INCLUDES:**
- One full day boat tour with an English-speaking escort and transfers
 - One full day guided Island tour with an English-speaking guide
 - Two nights accommodation at the chosen hotel
 - Departure transfer from your hotel to Rhodes airport (included in symposium package)
- RATE DOES NOT INCLUDE:**
- Lunches, tips and other personal expenses
 - A port tax of 15 Euros must be paid at Marmaris Port
- NOTE:**
- The tour will operate with a minimum of 15 participants

Preliminary Registration

Please complete the enclosed Registration and Tourist Services Form and send it together with your payment to the Symposium Secretariat. Payments can be made by bank draft or bank transfer to account #142-472330, Bank Hapoalim (swift code poalilit), Branch no. 780, Itzhak Sade' Street, Tel Aviv, Israel or by Credit Card (Visa/MasterCard/Diners/American Express only). Personal checks are not accepted! Payment by Credit Card will be charged in US\$, based on the exchange rate between the Euro and the US\$ on the date of payment.

Registration Payment Terms

50% of the total amount of your reservation will be charged upon registration and the remaining of the balance will be charged a week prior to the opening date of the Symposium. Payments will be refunded according to the cancellation policy.

Cancellation Policy

Refund of fees will be made if written notification of cancellation is received as follows:

Until August 19, 2004 –	Full refund less 140 € handling fees.
August 20 – September 10, 2004 –	60% refund.
September 11 – September 24, 2004 –	30% refund.
After September 25, 2004	No Refund

SYMPOSIUM SECRETARIAT AND TRAVEL AGENT

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