

# **AEGEAN CONFERENCES**

*Linking the international scientific community  
Bringing the humanity scholars together*

**3rd Workshop on Complement Associated  
Diseases, Animal Models, and Therapeutics**

**June 5-10, 2005  
Hilton Conference Center  
Rhodes, Greece**



---

## GENERAL INFORMATION

---

### ***Accommodations***

The conference participants will be staying at the Hilton Hotel (A' class), which is located in Ixia, 9 km from the airport.

### ***Breakfast***

Breakfast will be served at your hotel during the hours scheduled in this program.

### ***Conference Venue***

The Hilton Conference Center is located at the hotel.

### ***Oral Presentations***

An LCD projector, a projector for 2x2 inches slides, and an overhead projector will be available for the oral presentations. Speakers are asked to bring their USB/CD or slides to the slide reception desk at least 30 minutes before the starting of the session.

### ***Posters***

Posters should be mounted Monday morning, June 6, on the designated boards and dismounted at the end of the meeting. The dimensions of the boards are 150W x 170H cm. Adhesive tape for mounting the posters on the boards will be available at the poster area.

### ***Welcome Reception and Banquet***

**Badges** are **required** for admission.

### ***City Tour***

Busses for the city tour will be leaving from the hotel on Wednesday, June 8 at 3:00 p.m. Accompanying persons will also be picked up at the hotel front lobby at that time. **Badges** are **required** for participation.

### ***Lunches***

Lunches will be served at the indicated times to all registered participants and registered accompanying persons in the hotel. **Badges** are **required** for admission.

### ***Tour and Travel Information***

A desk operated by the personnel of our official travel agency, “**ERA Ltd.**”, 8 Alexandrou Soutsou Str., Kolonaki 10671 Athens – Greece  
Tel.: 30-210-363-4944, FAX: 30-210-3631690, E-Mail: info@era.gr  
will be located at the conference center throughout the meeting.

*The organizers gratefully acknowledge the generous help provided by Dimitrios Lambris in managing the organization of this meeting, and designing and publishing this program.*

**AEGEAN CONFERENCES**  
**3rd Workshop on Complement Associated**  
**Diseases, Animal Models, and Therapeutics**  
**Hilton Conference Center**  
**June 5-10, 2005**  
**Rhodes, Greece**

---

**WORKSHOP CHAIR**

---

**John D. Lambris, Ph.D.,**  
Professor of Pathology & Laboratory Medicine  
University of Pennsylvania  
401 Stellar Chance  
Philadelphia, PA 19104  
422 Curie Boulevard  
Phone: 215-746-5765  
FAX: 215-573-8738  
E-MAIL: lambris@mail.med.upenn.edu  
<http://www.lambris.net>  
<http://www.complement.us>  
<http://www.innateimmunity.us>



## PROGRAM OUTLINE

---

### Sunday, June 5

---

Registration	5:00-8:00 PM	Hotel Lobby
Welcome Reception/Dinner	8:00 PM	Main Restaurant

---

### Monday, June 6

---

Breakfast	8:00 AM	Main Restaurant
Registration	8:00 –1:00 PM	Conference Center Lobby
<b>Session I</b>	9:00 AM	Conference Center
Coffee Break & Poster Viewing	11:20 AM	Conference Center
<b>Session II</b>	11:50 AM	Conference Center
Lunch	2:05 PM	Main Restaurant
Dinner	8:00 PM	Local Greek Tavern

*The bus for the tavern will depart from the hotel at 7:30 PM*

---

### Tuesday, June 7

---

Breakfast	8:00 AM	Main Restaurant
<b>Session III:</b>	9:00 AM	Conference Center
Coffee Break & Poster Viewing	10:30 AM	Conference Center
<b>Session IV:</b>	11:00 AM	Conference Center
Lunch	1:10 PM	Main Restaurant
Dinner	8:00 PM	Local Greek Tavern

*The bus for the tavern will depart from the hotel at 7:30 PM*

---

**Wednesday, June 8**

---

Breakfast	8:00 AM	Main Restaurant
<b>Session V:</b>	8:00 AM	Conference Center
Coffee Break & Poster Viewing	11:00 AM	Conference Center
<b>Session VI:</b>	11:30 AM	Conference Center
Lunch	1:30 PM	Main Restaurant
City Tour	3:00 PM	
	<i>The bus for the city tour will depart from the hotel at 3:00 PM</i>	
Dinner	8:00 PM	Local Greek Tavern

---

**Thursday, June 9**

---

Breakfast	8:00 AM	Main Restaurant
<b>Session VII:</b>	9:00 AM	Conference Center
Coffee Break	10:30 AM	Conference Center
<b>Session VIII:</b>	11:00 AM	Conference Center
Concluding remarks	1:30 PM	Conference Center
Lunch	1:45 PM	Conference Center
Gala Dinner	8:00 PM	Hilton Hotel

---

**Friday, June 10**

---

Breakfast	8:00 AM	Main Restaurant
<b>Departure</b>		

# PROGRAM



---

**Sunday, June 5**

---

5:00 - 8:00 PM    Open Registration  
8:00 PM            Welcome Reception/Dinner

---

**Monday, June 6**

---

9:00 AM            **Welcome and Opening Remarks**  
JD Lambris

**Session I**        **“Novel Functions”**  
Chair: B Ghebrehiwet

9:10 AM        **1 A brief history of modern complement research**  
HR Colten

9:30 AM        **2 Complement system and the eye**  
NS Bora

10:00 AM      **3 Common Haplotype in the Complement Regulatory Gene, Factor H (HF1/CFH), Predisposes Individuals to Membranoproliferative Glomerulonephritis type II and Age-related Macular Degeneration**  
GS Hageman, DH Anderson, LV Johnson, KM Gehrs, RJH Smith, G Silvestri, M Dean, and R Allikmets

10:30 AM      **4 A role for complement components in regeneration**  
MC Madhavan, PA Tsonis, JD Lambris, and K Del Rio-Tsonis

11:00 AM      **5 Transplantation studies in C3-deficient animals reveal a novel role of third complement component (C3) in engraftment/regeneration of bone marrow**  
R Reca, JD Lambris, GD Ross, and MZ Ratajczak

11: 20 AM        Coffee Break & Poster Viewing

**Session II**        **CNS**  
Chair: AJ Tenner

11:50 AM      **6 Neuroprotective and neurotoxic roles of the complement protein C1q in neurodegenerative diseases**  
AJ Tenner, MI Fonseca, J Zhou, R. Fan, and K Pisalyaput

12:20 PM      **7 The effect of in vivo decompensation in EAE, the mouse model of multiple sclerosis**  
A Erdei, N Terényi, and J Prechl

- 12:50 PM     **8**    ***C5b-9 Complement complex in autoimmune demyelination: Dual role in neuroinflammation and neuroprotection***  
H Rus, C Cudrici, and F Niculescu
- 1:20 PM       **9**    ***Aggressive reduction of C3 is critical to alleviating complement mediated injury following cerebral ischemia/reperfusion***  
J Mocco, WJ Mack, M Botto, MCH Holland, JD Lambris, DJ Pinsky, and ES Connolly, Jr.
- 1:35 PM       **10** ***Pharmacological inhibition of intracerebral inflammation by systemic administration of the recombinant complement-inhibitor Crry-Ig mediates neuroprotection after experimental closed head injury in mice***  
I Leinhase, OI Schmidt, AM Hossini, VM Holers, and PF Stahel
- 1:50 PM       **11** ***Cyclic peptide, C5a receptor antagonists protect against striatal degeneration in a rat model Huntington's disease***  
TM Woodruff, JW Crane, LM Proctor, IA Shiels, PN Monk, and SM Taylor
- 2:05 PM       Lunch
- 8:00 PM       Dinner at a local Greek Tavern  
*The bus for the tavern will depart from the hotel at 7:30 PM*

---

**Tuesday, June 7**

---

- Session III**     ***Structure/ Systems Immunology***  
Chair: PN Barlow
- 9:00 AM       **12** ***New structural insights into soluble complement regulators***  
A Herbert, H Jenkins, L Mark, G Ball, D Uhrin, AM Blom, MK Pangburn, and PN Barlow
- 9:30 AM       **13** ***Structural insights into the central complement component C3***  
BJC Janssen, EG Huizinga, HCA Raaijmakers, A Roos, MR Daha, and P Gros
- 10:00 AM      **14** ***From atoms to systems: A “multidisciplinary” approach to today’s challenges in biosciences***  
JD Lambris
- 10:30 AM      Coffee Break & Poster Viewing

**Session IV**      **C5a / C5aR**  
Chair: J Köhl

- 11:00 AM    **15**    ***A regulatory role for the C5a anaphylatoxin on type 2 immunity in asthma***  
J Köhl, R Bälder, I Lewkowich, MK Pandey, H Hawlisch, L Wang, N Herman, A Sproles, J Best, J Zwirner, JD Whitsett, JD Lambris, and M Wills-Karp
- 11:30 AM    **16**    ***Ligand binding by complement fragment receptor, C512***  
AM Scola, A Higginbottom, and PN Monk
- 12:00 Noon    **17**    ***Therapeutic possibilities for C5a receptor antagonists***  
SM Taylor
- 12:30 PM    **18**    ***Changes of the C5a Receptor on neutrophils during sepsis in humans***  
M Huber-Lang, V Sarma, H Schreiber, U Bruckner, M Schneider, M Weiss, F Gebhard, P Monk, and PA Ward
- 12:55 PM    **19**    ***In vitro and in vivo studies of a synthetic anti-C5 aptamer***  
JC Kurz, JB Rottman, TM McCauley, C Benedict, and D Epstein
- 1:10 PM      Lunch
- 8:00 PM      Dinner at a local Greek Tavern  
*The bus for the tavern will depart from the hotel at 7:30 PM*

---

**Wednesday, June 8**

---

**Session V**      **Pathophysiology**  
Chair: PA Ward

- 9:00 AM    **20**    ***Tight Associations of Complement Components C4 and C3 Protein Profiles in Pediatric Systemic Lupus Erythematosus (SLE) Patients with Different C4 Gene Dosages.***  
YL Wu, GC Higgins, EK Chung, Y Yang, B Zhou, J Hayes, RM Rennebohm, and CY Yu
- 9:30 AM    **21**    ***Cell-bound complement activation products (CB-CAPs) as biomarkers for SLE diagnosis and disease activity***  
JM Ahearn, CC Liu, JS Navratil, D Wright, A Kao, and S Manzi
- 10:00 AM    **22**    ***The role of complement in xenogeneic islet transplantation***  
B Nilsson

- 10:30 AM 23 ***Immune evasion by a staphylococcal complement inhibitor that acts on C3 convertases***  
SHM Rooijackers, M Ruyken, A Roos, MR Daha, JS Presanis, RB Sim, WJB van Wamel, KPM van Kessel, and JAG van Strijp
- 11:00 AM Coffee Break & Poster Viewing
- Session VI** ***Pathophysiology***  
Chair: TE Mollnes
- 11:30 AM 24 ***gC1qR/p33 is a molecular bridge between complement and contact activation***  
B Ghebrehiwet and EIB Peerschke
- 12:00 Noon 25 ***Generation in vitro and in vivo of C5a in the absence of C3***  
PA Ward, FS Zetoune, JV Sarma, and M Huber-Lang
- 12:30 PM 26 ***Kallikrein and thrombin as C5 convertases***  
FS Zetoune, JV Sarma, M Huber-Lang, and PA Ward
- 12:45 PM 27 ***Complement inhibitors selectively attenuate injury following administration of cobra venom factor to rats***  
LM Proctor, AJ Strachan, T M Woodruff, H M Williams, and S M Taylor
- 1:00 PM 28 ***Observations on complement activity in the two-stage inflammatory response in the human and baboon models of endotoxemia and e. coli sepsis***  
FB Taylor, Jr, GT Kinasewitz, and D Stearns-Kurosawa
- 1:15 PM 29 ***Prostasomal modulation of complement inflammatory and phosphoprotein reactions with focus on prostate cancer***  
KN Ekdahl, G Ronquist, B Nilsson, and AA Babiker
- 1:30 PM Lunch
- 3:00 PM City Tour  
*The bus for the city tour will depart from the hotel at 3:00 PM*
- 8:00 PM Dinner at a local Greek Tavern

---

**Thursday, June 9**

---

- Session VII** ***Lectin Pathway***  
Chair: T Fujita

- 9:00 AM     **30** *Role of the lectin complement pathway in innate immunity*  
T Fujita, Y Liu, D Iwaki, M Takahashi, and Y Endo
- 9:30 AM     **31** *MBL deficient mice have increased susceptibility to pseudomonas aeruginosa infection after burn injury*  
M Müller-Kristensen, L Shi, E Ip, L Gowda, MR Hamblin, S Thiel, JC Jensenius, A Ezekowitz, and K Takahashi
- 10:00 AM    **32** *Complement Activation and role of mannose-binding lectin in ischemia-reperfusion and heart transplantation*  
TE Mollnes and AE Fiane

10:30 AM     Coffee Break

**Session VIII**     ***Functions / Evolution***

Chair: B Nilsson

- 11:00 AM    **33** *Multiple roles for the enhancement of the immune responses by C3d*  
TM Ross, FR Toapanta, and JF Bower
- 11:30 AM    **34** *Pro-survival role of complement in liver regeneration*  
MM Markiewski, RA DeAngelis, and JD Lambris
- 12:00 Noon   **35** *HIV-1 Infection: Concerted Action of Complement (C) and C Receptors on Erythrocytes (E), B-Cells, FDCs and DCs*  
MP Dierich, Z Banki, D Wilflingseder, Z Bajtay, Ch Ammann, M Prünster and H Stoiber
- 12:30 PM    **36** *Inactivation of complement by recombinant human C3 derivatives*  
E Spillner
- 1:00 PM     **37** *Functional Diversity of multiple isoforms of bony fish complement components*  
M Nakao, Y Kato, M Nakahara, J Mutsuro, and T Somamoto

1:30 PM     **Concluding Remarks**

1:45 PM     Lunch

8:00 PM     **Gala Dinner** at the Hilton Hotel

---

**Friday, June 10**

---

7:30 AM     Breakfast  
**Departure**

---

## POSTERS

---

- 38 *Cryoglobulin-induced monokine production via FcγRIIIa: inverse effects of complement blockade on the production of TNF-α and IL-10*  
L Mathsson, K Carlson, M Höglund, B Nilsson, K Nilsson-Ekdahl, U Lyckén and J Rönnelid
- 39 *Early Complement Activation after Severe Injury in Humans*  
M Huber-Lang, A Burk, U Bruckner, and F Gebhard
- 40 *A novel role for C5a in mediating neuronal activation seen in the brain in response to a systemic immune challenge*  
JW Crane, SM Taylor, and KM Buller
- 41 *C3a activates the human mast cell line, LAD2 cells and augment IGE dependent histamine secretion*  
MR Foster, P Masdin, K Affleck, L Fairbairn, A Gibson, N Thompson and E Meldrum
- 42 *Photodynamic therapy of cancer elicits local and systemic engagement of complement system including the upregulation of complement genes in the treated tumors*  
M Korbelik, B Stott, I Cecic and J Sun
- 43 *Apoptotic ovarian (CAOV-3) cancer cells shed ectodomain of CD46 by metalloproteolytic cleavage*  
JT Hakulinen and J Keski-Oja
- 44 *Mannan-binding lectin in children with recurrent purulent abscesses of skin, subcutaneous tissue or internal organs*  
M Cedzynski, E Fornalczyk-Wachowska, AS Swierzko, J Szemraj, M Banasik, and K Zeman
- 45 *The structural changes of cysteine mutants on N-terminal domains in human MBL, L-ficolin and H-ficolin*  
YG Ma, JW Park, NC Ha, HJ Kang, and BL Lee
- 46 *Mouse ficolins a and b: new approaches*  
V Runza, T Hehlhans, B Echtenacher, W Schwäble, U Zähringer, and D Männel
- 47 *Mannose-binding lectin polymorphisms in rheumatoid arthritis and the associations with radiological progression rate and serological markers*  
L De Rycke, I Peene, Kruithof, T Van De Castele, L Nuytinck, EM Veys, and F De Keyser
- 48 *Role of mannose-binding lectin (MBL2) genotyping in predicting the risk of recurrent otitis media (ROM)*  
L Nuytinck, E De Meester, M Van Thielen, and P Govaerts

- 49 *Role of Complement Component C5 In Cerebral Ischemia/Reperfusion Injury***  
C Costa; L Zhao; Y Shen; X Su; L Hao, T Zhou, and Y Wang.
- 50 *Role of C5 in the Development of Airway Inflammation, Airway Hyperresponsiveness and On-going Airway Response.***  
T Peng, L Hao, Jh Madri, X Su, J A. Elias, G Stahl, S Squinto and Y Wang<sup>1</sup>
- 51 *Development of an active disease model for epidermolysis bullosa acquisita in mice***  
C Sitaru, MT Chiriac, S Mihai, D Zillikens
- 52 *Complement receptor 1 1 (CRI) and its genetic polymorphism in the pathophysiology and prognosis of systemic lupus erythematosus (SLE) and glomerulonephritis (GN)***  
N Das, V Arora, M Gandhi, J Verma, V Marwah , S C Tiwari and A Kumar