

SCIENTIFIC PROGRAMME AT A GLANCE

17 May 2009

15:00 - 17:00 Registration

17:30 – 18:30 Keynote lecture 1 in memory of Dr F. Schuster (Kn-1)

Dr Govinda S. Visvesvara, CDC Atlanta, USA

19:30 Get together

18 May 2009

Breakfast at your hotel

8:45 Pick up at **Semiramis hotel hall** and bus transfer to the University of La Laguna for the opening ceremony with local authorities.

10:00 - 10:30 Opening ceremony with the presence of local authorities at the Univ. of La Laguna

11:00 – 12:00 Keynote lecture 2 (Kn-2)

Dr Sutherland K. Maciver, Univ. of Edinburgh, UK.

- Novel anti-bacterial "designer antibodies" from amoebae

12.30 Lunch

15:00 – 17:20 **Oral session – 1**

Chair: Dr Julia Walochnik and Dr. Fernando Lares Villa

Or-1: **Paravahlkampfia francinae n. sp. masquerading as an agent of primary amebic encephalitis.** G S Visvesvara, R Sriram, Y Qvarnstrom, K Bandyopadhyay, A J Da Silva, N J Pieniazek, G A Cabral.

Or-2: **Pathogenic *Naegleria fowleri* and non-pathogenic *Naegleria lovaniensis* amebae demonstrate diverse phenotypic characteristics involved in ameba-host interactions.** M Jamerson, B da Rocha-Azevedo, GA Cabral, and F Marciano-Cabral.

Or-3: ***Naegleria fowleri* uses D-mannose residues in N-linked glycans to adhere to and infect the nasal mucosa of mice.** S Rojas-Hernandez, M Carrasco-Yepey, A Rezendiz-Albor, M Godinez-Victoria, A Jarillo-Luna, S Rojas-Osornio, R Campos-Rodriguez.

Or-4: **Cloning and roles of Nf-actin gene in pathogenic *Naegleria fowleri*.**

HJ Sohn, KJ Song, JH Kim, AR Song, JY Lee, MJ Kim, HJ Shin.

Or-5: **Intranasal immunization with *Naegleria fowleri* lysates increases levels of IgA and IgG antibodies specific to amoeba in serum and nasal fluid.**

M Godínez-Victoria, A Reséndiz-Albor, I Arciniega-Martínez, S Rojas-Osorio, R Campos-Rodríguez, S Rojas-Hernández.

Or-6: **Cytokine mRNA expression associated to IgA and pIgR synthesis of immunized mice nasal mucosa with *Naegleria fowleri* lysates plus Cholera Toxin.** *M.Carrasco-Yépez, M. Godínez-Victoria, I.López-Reyes, A. Miliar-García, R.Cámpos-Rodríguez and S.Rojas-Hernández.*

Or-7: **Intranasal immunization with *Naegleria fowleri* lysates increases B and T CD4⁺ cells in spleen and cervical lymph nodes.** *A Reséndiz-Albor, M Godínez-Victoria, I Arciniega-Martínez, M Carrasco-Yépez, S Rojas-Osorio, R Campos-Rodríguez, S Rojas-Hernández.*

17:20-17:40 Coffee break

17:40-19:00 **Oral Session-2**

Chair: Dr Donald Munson and Dr Maritza Omaña

Or-8: **Monitoring of *Naegleria fowleri* sensitivity to biocide treatment in power plant cooling systems: A methodology combining genotyping and inactivation testing of Nf strains - Case study -.** *S Soreau, E Lehericey.*

Or-9: **The Nuclei of *Balamuthia mandrillaris*.** *T. Dunnebacke.*

Or-10: **Isolation of *Balamuthia madrillaris*-specific antibodies from a bacteriophage antibody display library.** *S Jayasekera, AF Ahmad, NA Khan.*

Or-11: ***Balamuthia* and *Acanthamoeba*-binding antibodies in West African human sera.** *AF Kiderlen, E Radam, EV Adjogoua, C Akoua-Koffi, FH Leendertz*

20:30 – 22:00 Welcome Dinner

19 May 2009

Breakfast at your hotel

09:00 - 10:00 Keynote lecture 3 (Kn-3)

Dr Julia Walochnik, Medical Univ. of Vienna, Austria

- History, Phylogeny and Medical Relevance of the *genus Sappinia*.

J. Walochnik, C. Wylezich, R. Michel

10:00 - 11:20 **Oral session – 3**

Chair: Dr Govinda Visvesvara and Dr Iva Dykova

Or-12: **Screening of Swiss water bodies for potentially pathogenic free-living amoebae.** C Gianinazzi, M Schild, F Wüthrich, NB Nour, HP Füchslin, N Schürch, B Gottstein, N Müller.

Or-13: ***Acanthamoeba* (Gymnamoebae:Acanthamoebidae) Distribution in the Chester River of the Eastern Shore of Maryland.** Munson DA.

Or-14: **First data on the characterization of environmental isolates of *Acanthamoeba* from the central area of Spain.** Magnet A; Galván AL, Fenoy S, Izquierdo F, Rueda C, Pérez-Irezábal J, Bandyopadhyay K, Visvesvara GS; Da Silva AJ, del Águila C

Or-15: **Identification of amoebae and bacteria in tap water supplied by a municipal water distribution system in the United States.** E. Marciano-Cabral, M. Jamerson, and E. Kaneshiro.

11:20 - 11:40 Coffee break

11:40 – 13:20 **Oral session-4**

Chair: Dr Carmen Del Águila and Dr Guy A. Cabral

Or-16: **Cellular and molecular effects of caffeine and chlorhexidine against *Acanthamoeba*.** CM Martín-Navarro, J Lorenzo-Morales A López-Arencibia, B Valladares, SK Maciver, JE Piñero.

Or-17: **Identification of novel inhibitors to *Acanthamoeba* species.** E. Henríquez.

Or-18: **Binding of complement factors and activation of alternative pathway in *Acanthamoeba* spp.** W Pumidonming, F Petry, E Dauber, J Walochnik

Or-19: **Encystment in *Acanthamoeba* spp.: characteristics and functional properties.** Dudley, R, Alsam, S, Parkes, H, Hauber, S, and Khan, NA.

Or-20: **Small-subunit ribosomal DNA of *Thecamoeba verrucosa* (Ehrenberg, 1838) (Amoebozoa, Thecamoebidae) and the phylogenetic relationships of Acanthamoebidae.** A Kudryavtsev, J Pawlowski, K Hausmann.

13:20-15:00 Lunch

15:30-17:30 **Oral session-5**

Chair: Dr Naveed A. Khan and Dr John F. Lindo

Or-21: **Interaction between *Acanthamoeba culbertsoni* and the host extracellular matrix: analysis of amoebic adhesion and invasion.** B da Rocha-Azevedo, Melissa Jamerson, Guy A. Cabral & Francine Marciano-Cabral.

Or-22: **Encystation vs “toxic” reaction: two modes of protection against environmental stress in acanthamoebae.** J Kliescikova, E Nohynkova

Or-23: **Comparison of protease profiles during differentiation of *Acanthamoeba* morphological group I, II and III.** M Köhler, D Leitsch, M Duchêne, J Walochnik.

Or-24: **Autophagy protein 8 essential for autophagosome formation regulates encystation in *Acanthamoeba*.** EK Moon, DI Chung, YC Hong, HH Kong.

Or-25: **The therapeutic potential of siRNAs against clinical strains of *Acanthamoeba*.** J Lorenzo-Morales, CM Martín-Navarro, A López-Arencibia, E Martínez-Carretero, JE Piñero, B Valladares.

17:30-17:40 Coffee break

17:40-19:40 Oral session-6

Dr Albrecht Kiderlen and Dr Antonio Osuna

- Or-26: ***Acanthamoeba culbertsoni* serine proteases ablate microglial cytokine and chemokine response** G A Cabral, J L Harrison, E S Raborn, F. Marciano-Cabral.
- Or-27: **Mitochondria of free-living amoebae: details of their ultrastructure, well known and surprising.** Iva Dyková.
- Or-28: **Cytopathogenic mechanisms of two strains of *Acanthamoeba* isolated from contact lens.** M Omaña-Molina, A González-Robles, L Salazar-Villatoro, A Cristóbal-Ramos, V Hernández-Ramírez, G Castañón-Gutiérrez, P Talamás-Rohana, A Martínez-Palomo
- Or-29: **Atypical amoebae (*Incertae sedis*) and fungi isolated from the cerebrospinal fluid of a near-drowning child.** AM Cabello, K Noriega, I Espinoza, TJ Ochoa, E Chaparro.
- Or-30: **Identification of genotypes T2, T3, T4, T6 and T11 from clinical and environmental samples in Iran.** M Niyyati, J Lorenzo-Morales, S Rezaie, F Rahimi, M Mohebbali, AH Maghsood, A Motevalli-Haghi, CM Martín-Navarro, S Farnia, B Valladares, M Rezaeian.
- Or-31: **Potentially pathogenic free-living amoebae colonize the nasal mucosa of residents of communities from where patients dying of amoebic disease had come.** AM Cabello, H Guerra, F Bravo, E Gotuzzo

20:30-22:00 Dinner

20 May 2009

Breakfast at your hotel

09:00 - 10:00 Keynote lecture 4 (Kn-4)

Dr. Naveed A. Khan, University of Nottingham, UK

***Acanthamoeba* and blood-brain barrier: the breakthrough.** NA Khan, P Mortazavi, S Alsam, J Sissons, KS Kim, EL Jarroll, G Goldsworthy.

10:00-11:20 Oral session – 7

Chair: Dr Sutherland K. Maciver and Dr Antonio Martínez

Or-32: **N-glycosylation in *Acanthamoeba*.** B Schiller, K Nöbauer, S Kurz, E Razzazi-Fazeli, J Walochnik, IBH Wilson.

Or-33: **Biochemical analyses of *Acanthamoeba* and *Balamuthia* carbohydrates.** E L Jarroll, R Dudley, R Siddiqui, NA Khan.

Or-34: **Characterisation of the shikimate pathway in *Acanthamoeba* species.** CW Roberts

Or-35: **A proteomic study on infections with *Parachlamydia acanthamoebae* in its *Acanthamoeba* host.** D Leitsch, M Köhsler, M Marchetti-Deschmann, A Deutsch, G Allmaier, M Horn, M Duchêne, J Walochnik.

11:20-11:40 Coffee break

11:40-13:40 Oral session-8

Chair: Dr Edward Jarroll and Dr Patricia Bonilla

Or-36: ***Acanthamoeba castellanii* is an eukaryotic host for *Vibrio* species in aquatic environments.** G Sandström, A Saeed, H Abd.

Or-37: **Protozoa as hosts for *Campylobacter* spp.** D Axelsson-Olsson, J Olofsson, L Svensson, P Griekspoor, P Ellström, J Waldenström, B Olsen.

Or-38: ***Campylobacter jejuni* acid tolerance increases when co-incubated with amoebae.** D Axelsson-Olsson, J Olofsson, L Svensson, P Ellström, J Waldenström, B Olsen.

Or-39: **Effect of nitrosative stress on *Campylobacter jejuni* co-cultured with *Acanthamoeba Polyphaga*.** L Svensson, D Axelsson-Olsson, B Olsen.

Or-40: **Methicillin-resistant *Staphylococcus aureus* (MRSA) interactions with *Acanthamoeba*.** S Alsam, NA Khan.

13:40-15:00 Lunch

15:30-17:00 Poster session

Chair: Dr Thelma Dunnebacke and Dr Francine Marciano-Cabral

17:00-17:30 Coffee break

17:30-18:30 **Business meeting,**

Chair: **Dr GS Visvesvara and Dr F Marciano-Cabral.**

20:30-22:00 Dinner

21 May 2009

08:00 - 09:00 Breakfast at your hotel

09:00 – 17:00 Trip to Mount TEIDE National Park (UNESCO World Heritage Centre)

20:30 Gala Dinner