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[Email](#) | [A-Z Index](#) | [Contacts](#) | [Directory](#) | [Campus Map](#) | [Help](#)



Program

FLAM 2011 PROGRAMME

10TH OCT 2011

15:00 - 18:00 Registration

20:30 – 22.00 Get together

11TH Oct 2011

07:00 - 09:00 Breakfast & Late registrations

09:00 - 09:20 Opening session

Dr John F. Lindo, President FLAM 2011, UWI, Jamaica.

09:20 - 10:20 Keynote lecture 1:

Dr Francine Marciano-Cabral, Virginia Commonwealth University, USA

- *Biological properties of Pathogenic Naegleria*

versus non-pathogenic Naegleria -

10.30 - 11:00 Coffee break

11:00 - 12:40 Oral session – 1

Chair: Dr Govinda Visvesvara and Dr Sutherland K Maciver

- *OR-1: Naegleria fowleri utilizes an integrin-like molecule for attachment to host extracellular matrix components. MELISSA JAMERSON, GUY CABRAL, BRUNO ROCHA-AZEVEDO, FRANCINE MARCIANO-CABRAL.*

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- *OR-2: Assessment of potential pathogenicity factors from Naegleria fowleri using genomic and proteomic approaches DENISE BURRI, NORBERT MÜLLER, BEATRICE ZUMKEHR, BRUNO GOTTSTEIN, NADIA SCHUERCH, MATTHIAS WITTEW.*

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- *OR-3: Survey of Naegleria fowleri in geothermal recreational waters of Guadeloupe (French West Indies) MIRNA MOUSSA, JOHAN DE JONCKHEERE, JÉRÔME GUERLOTTÉ, ALEXANDRA BASTARAUD, MARC ROMANA, CÉDRIC BROQUÈRE, ANTOINE TALARMIN.*

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- OR-4: Protective immunity in PAM-developed mice immunized with the Nfa1 protein using cholera toxin or heat-labile enterotoxin adjuvant
JINYOUNG LEE, JONG-HYUN KIM, HAE-JIN SOHN, MOON-HEE SIM, HO-JOON SHIN.

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- OR-5: The nfa1 DNA vaccination using two viral vectors on experimental *Naegleria fowleri*-PAM mice
HAE-JIN SOHN, JONG-HYUN KIM, JINYOUNG LEE, MOON-HEE SIM, HO-JOON SHIN.

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- OR-6: Correlation between the number of immunizations and antibody production with the percentage of protection in the meningitis caused by *N.fowleri*.
SAUL ROJAS-HERNANDEZ, MARICELA CARRASCO-YEPEZ, ARTURO CONTIS-MONTES DE OCA, OSCAR DE JESUS NIETO-YAÑEZ

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- OR-7: The effect of immunization intranasal with cholera toxin in the activation of dendritic cells and macrophages in the model of *Naegleria fowleri* meningoencephalitis.
SAUL ROJAS-HERNANDEZ, MARICELA CARRASCO-YÉPEZ, MARIA CONCEPCION PEÑA-JUAREZ, MARCO AURELIO RODRIGUEZ-MONROY, RAFAEL CAMPOS-RODRIGUEZ

12:45 - 14:00 Lunch

14:00 - 16:05 Oral session – 2

Chair: Dr Naveed A. Khan and Dr Francine Marciano-Cabral

OR-8: *Acanthamoeba*-bacteria: A non-mammalian model to study interaction with human pathogens
GUNNAR SANDSTRÖM, SALAH M. SHANAN, AMIR SAEED, HADI ABD.

-OR-9: Detection of *Vibrio cholerae* and *Acanthamoeba* species from same natural water samples collected from different cholera endemic areas in Sudan.
SALAH M SHANAN, AMIR SAEED, HADI ABD, GUNNAR SANDSTRÖM.

-OR-10: Impact of water disinfectants on amoebae and *Legionella*.
MATHIEU DUPUY, FLORENCE BERNE, CHARLES BODET, PASCALINE HERBELIN, NELSIE BERTHELOT, MARIE-HELENERODIER, SYLVIE SOREAU, YANN HECHARD

-OR-11: Free-living amoebae as vectors of bacteria, viruses, fungi and protozoa.
PATRICK L. SCHEID, RAFAEL SCHWARZENBERGER, ROLF MICHEL

-OR-12: *Acanthamoeba* as a model organism to study the pathogenesis of *Staphylococcus aureus*. MIHAELA CARDAS, NAVEED A. KHAN, SELWA ALSAM

-OR-13: *Acanthamoeba* in Chicago, Illinois are Associated with the Presence of the Pathogenic Bacteria *Legionella pneumophila* and *Pseudomonas aeruginosa*. MONICA J CRARY, FERNANDO LARES-VILLA, GREGORY BOOTON, ERIC PEARLMAN, MEGAN SHOFF, CHARLOTTE JOSLIN, ELMER TU, PAUL FUERST

16:05 - 16:20 Coffee break

16:20 - 18:00 Oral session – 3

Chair: Dr Fiona L. Henriquez and Dr Jacob Lorenzo-Morales

-OR-14: *An Unexpected Protozoan, As Well As The Ameba, Balamuthia mandrillaris, Was Recovered From The Brain Biopsy Of An Encephalitis Survivor.* THELMA DUNNEBACKE-DIXON, SHIGEO YAGI, CAROL GLASER, MICHAEL VOLLMER.

-OR-15: *Balamuthia mandrillaris* in Northwest Mexico: isolation from a water sample and a case report of granulomatous amoebic encephalitis. LUIS FERNANDO LARES- JIMÉNEZ, MONICA J. CRARY, MANUEL ALBERTO CANO-RANGEL, FERNANDO LARES-VILLA, JUAN DOMINGO CASTILLO-ALDACO, JOSÉ LUIS TAPIA-MALAGÓN, GREGORY C. BOOTON, PAUL A. FUERST.

-OR-16: *Isolation and characterization of Balamuthia mandrillaris from the CSF of a pediatric patient.* GOVINDA S. VISVESVARA, RAMA SRIRAM, YVONNE QVARNSTROM, ZUZANA KUCEROVA, SHARON L ROY.

-OR-17: *The "El Niño" associated with outbreaks of skin lesions and Balamuthia mandrillaris meningoencephalitis (free-living amoebae) in Peru.* MARTIN ALFONSO CABELLO.

- OR-18: *De novo assembly of the Balamuthia mandrillaris genome - Progress report.* ALBRECHT F. KIDERLEN, NICOLAS BALCAZAR PUST, ALEKSANDAR RADONIC, P. WOJTEK DABROWSKI, TONI AEBISCHER, ANDREAS NITSCHKE

19:30 - ? Dinner

12 Oct 2011

07:00 - 09:00 Breakfast

09:00 - 09:10 Opening session

09:10 - 10:10 Keynote lecture 2

Dr. Yann Hechard, University of Poitiers, France

-Encystment of Free-Living Amoebae, news and views

10:30 - 11:00 Coffee break

11:00 - 12:40 Oral session – 4

Chair: Dr Julia Walochnik and Dr John F. Lindo

-OR-19. The Distribution of Acanthamoeba spp. in estuarine sediments from the north coast of France. DONALD. A. MUNSON, JEAN-PAUL DUCROTOY, TIMOTHY A. PAGET

-OR-20 Detection of Acanthamoeba by real-time PCR in cerebrospinal fluid of immunocompromised patients HELENE YERA, GEOFFROY MARLAND, JEAN DUPOUY-CAMET

-OR-21. Broad spectrum real-time PCR for the rapid detection and semi quantification of Acanthamoeba in Roman hot spring waters. PABLO GOLDSCHMIDT, DAVID DI CAVE, SANDRINE DOGORGE, FEDERICA BERRILLI, LAURENCE BATELLIER, CHRISTINE CHAUMEIL

OR-22. Phylogenetic diversity among the strains of Acanthamoeba recovered from environmental and clinical samples in a semi-desert region of Mexico. LUIS FERNANDO LARES-JIMÉNEZ, MONICA CRARY, FERNANDO LARES-VILLA, DIANA SANDOVAL-QUINTANA, CARLOS ALBERTO HAYS-LÓPEZ, GREGORY C. BOOTON, PAUL A. FUERST.

12:40 - 14:00 Lunch

14:00 - 16:05 Oral session – 5

Chair: Dr Ho-Joon Shin and Dr Albrecht Kiderlen

-OR-23: Acanthamoeba pathogenicity: T4 in the dock? SUTHERLAND K MACIVER, MARTIN W SIMMEN, JACOB LORENZO-MORALES

-OR-24. Genotypic analysis of Acanthamoeba isolates from public water sources in Thailand. SOMCHAI JONGWUTIWES, WARISA NUPRASERT, CHATURONG PUTAPORNTIP

-OR-25: Description of a new ribosomal gene sequence type, T18, within group I Acanthamoeba YVONNE QVARNSTROM, NORMAN J PIENIAZEK, THOMAS NERAD, GOVINDA VISVESVARA

OR-26: Updating the phylogenetic structure of the genus Acanthamoeba based on sequences of the nuclear small subunit ribosomal RNA gene. PAUL A. FUERST, GREGORY C. BOOTON

OR-27: Alternative genotyping approaches for Acanthamoeba and

Balamuthia: phylogenetic analysis of the Cytochrome Oxidase I (COI) DNA Barcode MONICA J. CRARY, SHANKAR NARAYANAN, GOVINDA S. VISVESVARA, CHARLOTTE JOSLIN, ELMER TU, ASHLEY HOPKINS, GREGORY BOOTON AND PAUL FUERST.

16:05 - 16:20 Coffee break

16:20 - 18:00 Oral session – 6

Chair: Dr Craig W. Roberts and Dr Thelma Dunnebacke-Dixon

OR-28: Siamese gourami (Trichogaster pectoralis, Regan 1910) farming and Acanthamoeba keratitis.

OR-29: Acanthamoeba Infections In Domestic Dogs In Tenerife, Canary Islands, Spain. ATTENERI LÓPEZ-ARENCIBIA, JACOB LORENZO-MORALES, MARÍA VALLADARES, MARÍA REYES-BATLLE, JAIONE SANCHO, CARMEN MARÍA MARTÍN-NAVARRO, LUIS LÓPEZ-MEDINA, JOSÉ ENRIQUE PIÑERO, ENRIQUE MARTÍNEZ-CARRETERO, BASILIO VALLADARES

OR-30: Acanthamoeba Disseminated Infection In A Private Cattle Farm In Tenerife, Canary Islands, Spain. JACOB LORENZO-MORALES, ANA C. GONZÁLEZ, MARÍA REYES-BATLLE, ATTENERI LÓPEZ-ARENCIBIA, JOSÉ E. PIÑERO, ENRIQUE MARTÍNEZ-CARRETERO, BASILIO VALLADARES

OR-31: Adherence of Acanthamoeba castellanii trophozoites on the surface of contact lenses of silicone hydrogel. MARITZA OMAÑA-MOLINA, ARTURO GONZALEZ-ROBLES, ALEXANDER BERNAL-ESCOBAR, ANGEL DURAN, LIZBETH SALAZAR-VILLATORO

18:30 - 20:30 Dinner

13TH Oct 2011

07:00 - 09:00 Breakfast

09:00 - 09:10 Opening session

09:10 - 10:10 Keynote lecture 3

Dr Fiona Henriquez, University of the West of Scotland, UK

- Molecular Identification of novel inhibitors of Acanthamoeba species-

10.30 -11.00 Coffee break

11:00 - 12:40 Oral session – 7

Chair: Dr Donald A. Munson and Dr Patricia Bonilla

-OR-32: *Acanthamoeba castellanii* viability in contact lens solutions. MARITZA OMAÑA- MOLINA, TANIA PALOMA SILVESTRE-MONGE, ARTURO GONZALEZ-ROBLES, MARCO RODRIGUEZ-MONROY, LIZBETH SALAZAR-VILLATORO

-OR-33: In Vitro Activity of Statins against *Acanthamoeba* spp. CARMEN M. MARTÍN-NAVARRO, ATTENERI LÓPEZ-ARENCIBIA, RUBÉN P. MACHÍN, MARÍA REYES-BATLLE, BASILIO VALLADARES, JOSÉ MANUEL GARCÍA-CASTELLANO, JACOB LORENZO-MORALES, JOSÉ E. PIÑERO

-OR-34: Analysis of the Cellulose Biosynthesis pathway and the Shikimate pathway as potential targets against *Acanthamoeba castellanii* cysts. FIONA L. HENRIQUEZ, BHARATH K. SUNDARARAJ, SARA JANE CAMPBELL, CRAIG W ROBERTS.

-OR-35: Role of trehalose in *Acanthamoeba* protection. EVA BINOVA, JARMILA KLIESCIOVA, DAVID ASHFORD, JANE THOMAS-OATES, EVA NOHYNKOVA

-OR-36: The histidine pathway of *Acanthamoeba*. FIONA L. HENRIQUEZ, SARA J. CAMPBELL, BHARATH K. SUNDARARAJ, JEEHAN ALESTAD, CRAIG W. ROBERTS

-OR-37: *Acanthamoeba Myosin IC: Evaluation Of The Induced Cellular Effects And Future Use As A Therapeutic Target*. JACOB LORENZO-MORALES, CARMEN M. MARTÍN-NAVARRO, ATTENERI LÓPEZ-ARENCIBIA, MARÍA REYES-BATLLE, JOSÉ E. PIÑERO, BASILIO VALLADARES, ENRIQUE MARTÍNEZ-CARRETERO, SUTHERLAND K MACIVER.

12:40 - 14:00 Lunch

14:00 - 16:00 Oral session-8

Chair: Dr Gunnar Sandström and Dr Guy A. Cabral

-OR-38. *Traversal of the blood-brain barrier by pathogenic protists* RUQAIYYAH SIDDIQUI, JAMES EDWARDS-SMALLBONE, ROBIN FLYNN, NAVEED A. KHAN

OR-39: *Acanthamoeba* infection – skin and cornea models. JULIA WALOCHNIK

OR-40: *Cockroaches and locusts: Physicians' answer to infectious diseases*. SIMON LEE, HELEN ATKINS, RUQAIYYAH SIDDIQUI, NAVEED AHMED KHAN

OR-41: *Neoparamoeba branchiphila* isolated from moribund sea urchins *Diadema antillarum* (Philippi) (Echinoidea, Echinodermata) in Tenerife, Canary Islands, Spain

*IVA DYKOVÁ, JACOB LORENZO-MORALES, MARTIN KOSTKA,
BASILIO VALLADARES*

18:30 - 20:30 Dinner

14TH Oct 2011

07:00 - 09:00 Breakfast

09:00 – 10:00 Keynote lecture 4

Dr Omar Harb, University of Pennsylvania, USA

- AmoebaDB: a functional genome resource for amoebae

10:30-11:00 Coffee break

11:00 – 12:30 Poster session

P-1: Thermotolerant Acanthamoeba spp. isolated from therapeutic hot springs in Northwestern Iran. MARYAM NIYYATI, RAHMAT SOLGI, ALI HAGHIGHI, NILOOFAR TAGHIPOUR, SEYYED JAVAD TABAEI, MOHAMAD EFTEKHAR, EHSAN NAZEMALHOSSEINI MOJARAD .

P-2: Screening Of Free Living Amoebae From Soil Sources In La Gomera Island, Canary Islands, Spain. MARÍA REYES-BATLLE, JACOB LORENZO-MORALES, CHERIDAH D. TODD, CARMEN M. MARTÍN-NAVARRO, ATTENERI LÓPEZ-ARENCIBIA, BASILIO VALLADARES, JOHN F LINDO, JOSÉ E. PIÑERO.

P-3: Quantification of Naegleria fowleri in power plant cooling circuits. GOURMELON NOLWENN, HECQUET KAREN, DESCHAMPS JOËL

P-4: Isolation of free-living amoebae from warm springs of Mexico ELIZABETH RAMIREZ, ESPERANZA ROBLES, BLANCA MARTINEZ, REYNALDO AYALA

P-5: Isolation of Acanthamoeba T3, T4 and T11 Genotypes From Air Conditioning Units In Chile. BERBELI ASTORGA, JACOB LORENZO-MORALES, CARMEN M^a MARTÍN- NAVARRO, VERÓNICA ALARCÓN, JOHANNA MORENO, ANA C. GONZÁLEZ, ELIZABETH NAVARRETE, JOSÉ E. PIÑERO BASILIO VALLADARES

P-6: Temperature depended role of Shigella flexneri invasion plasmid on the interaction with Acanthamoeba castellanii. AMIR SAEED, HADI ABD, DAVID JOHANSSON, GUNNAR SANDSTRÖM.

P-7: Occurrence of Legionella spp. and their amoeba hosts in water-solid interface biofilm and air-water interface biofilm in spring environments . CHIN-CHUN HUANG

P-8: Diversity of free-living amoebae in tropical streamrivers tempered by altitude at Valle de Bravo-Amanalco basin, Mexico . PATRICIA BONILLA-LEMUS

P-9: Is the strain Acanthamoeba castellanii Neff an appropriate representative for

the genus Acanthamoeba?. PAUL A. FUERST, GREGORY BOOTON, MONICA J CRARY

P-10: *Detection of surface-associated lectins of Naegleria fowleri as possible adhesins to nasal epithelial cells of mice.* MARICELA CARRASCO-YEPEZ; ROBERTO MENDOZA- GARCIA; PATRICIA BONILLA-LEMUS, ARTURO CONTIS-MONTES DE OCA; LUCIO RIVERA-SANTIAGO; ELIZABETH RAMÍREZ, SAÚL ROJAS-HERNANDEZ

P-11: *Multilocus sequence typing of Acanthamoeba keratitis-associated clinical isolates from a Chicago outbreak.* MONICA J CRARY, FERNANDO LARES-VILLA, GREGORY BOOTON, CHARLOTTE JOSLIN, ELMER TU, PAUL A FUERST

P-12: *Detection and quantification of Free-Living Amoebae in Hot Water Networks for the anticipation of Legionaire's diseases.* THOMAS LE CALVEZ, YANN HÉCHARD, JACQUES FRÈRE, MARIE CÉCILE TROUILHÉ, PHILIPPE HUMEAU, MARINA MOLETTA-DENAT

P-13: *Isolation and biological characterization of free-living amoeba isolated from clinical cases of amoebic keratitis, contact lenses and storage/cleaning solutions in Mexico.* MARITZA OMAÑA-MOLINA, ARTURO GONZÁLEZ-ROBLES, LIZBETH SALAZAR- VILLATORO, MARCO RODRÍGUEZ-MONROY, VIRGINIA VANZZINI, ELIZABETH RAMÍREZ-FLORES, ALEXANDER BERNAL-ESCOBAR

P-14: *Influence of the temperature on the growth dynamic of Naegleria fowleri into a complex microbial freshwater biofilms.* SÉBASTIEN GOUDOT, PASCALINE HERBELIN, SYLVIE SOREAU, SANDRINE BANAS, LAURENCE MATHIEU, FRÉDÉRIC JORAND

P-15: *First steps in phylogeographic analysis of vannellid amoebae.* TOMÁŠ TYML, MARTIN KOSTKA, IVA DYKOVÁ.

12:30 – 14:00 Lunch

14:00-16:00 Business meeting: **Dr John F. Lindo, Dr Govinda Visvesvara, and Dr Francine Marciano-Cabral**

15TH Oct 2011

09:00-? Social day (IRIE AMOEBAE DAY)

Excursion day for attendants and accompanying persons