



EFISG

ESCMID FUNGAL INFECTION
STUDY GROUP

European Society of Clinical Microbiology and Infectious Diseases

Annual Report 2010/2011

COMPLETED ACTIVITIES

a. Publications, guidelines and consensus documents:

1. Evaluation by Data Mining techniques of Fluconazole breakpoints established by the Clinical and Laboratory Standards Institute (CLSI), and its comparison with those of the European Committee on Antimicrobial Susceptibility Testing (EUCAST)
Cuesta I., Bielza C., Cuenca-Estrella M., Larrañaga P., Rodriguez-Tudela J.L.
Antimicrob. Agents Chemother. 2010, 54: 1541-1546.
2. Echinocandin susceptibility testing of Candida species: comparison of EUCAST EDef7.1, CLSI M27-A3, Etest, disk diffusion, and agar dilution methods with RPMI and isosensitest media.
Arendrup M.C., Garcia-Effron G., Lass-Flörl C., Lopez A.G., Rodriguez-Tudela J.L., Cuenca-Estrella M., Perlin D.S. Antimicrob. Agents Chemother. 2010, 54: 426-439.

b. Presentations on behalf of the Study Group at scientific meetings:

c. Organization of scientific meetings and workshops at ECCMID:

1. JOINT SYMPOSIUM EFISG and ECMM:
Latest trends from the molecular laboratory for studying fungal pathogens and invasive fungal infections.
Chairpersons: J. Peter Donnelly (Nijmegen, The Netherlands) and Cornelia Lass-Flörl (Innsbruck, Austria)
 - a. Diagnostic PCR for IFI. Does it really work? Manuel Cuenca-Estrella (Madrid, Spain)
 - b. Direct identification of resistant mutants during fungal infection. Is it useful for clinical practice? Maïke C. Arendrup (Copenhagen, Denmark)
 - c. Clinically relevant novel taxa from old species complexes. Teun Boeckhout (CBS, The Netherlands)
 - d. Is molecular subtyping a clinical tool? Jacques F. Meis (Nijmegen, The Netherlands)
2. KEY NOTE LECTURE
Epidemiology of invasive fungal infections, ECCMID 2010 (Vienna, Austria)

d. Organization of educational workshops at ECCMID

1. JOINT AFST-EUCAST (Antifungal Subcommittee of Susceptibility Testing of EUCAST) and EFISG WORKSHOP: Antifungal agents: New topics on resistance, therapeutic drug monitoring and pharmaco-economy.
 - a. Topics: Antifungal drug breakpoints: phenotypic, genotypic and clinical resistance (J.L. Rodriguez Tudela)
 - b. Therapeutic drug monitoring (TDM) of antifungal agents: how, when, where? (R.J. Brüggemann)
 - c. Pharmaco-economy and antifungal prescriptions (O.A. Cornely)

e. Newsletter

News from the European Fungal Infection Study Group (EFISG).

The European Fungal Infection Study Group (EFISG) received the highest activity score in the Study Group Evaluation of 2009/2010. January 15th, 2011.

f. Organization of educational activities outside ECCMID

1. ESCMID Postgraduate Education Course "Invasive Fungal Infections: Host-Pathogen Interaction, 16-17 March 2010, Oslo, Norway.

The course will provide participants with a review on biological characteristics, including virulence factors, of the most common medically important fungi. In addition, you are updated on the host immune response to these pathogens and future perspectives will be discussed. This is presented with state-of-the-art lectures combined with shorter, more detailed presentations:

- Biological characteristics of medically important fungi
- Virulence factors in pathogenic fungus
- The immune response in fungal infection: Protective or pathogenic responses?
- Biological characteristics of medically important fungi

2. ESCMID Conference "Invasive Fungal Infections", 18-19 February 2010, Rome, Italy.

Participants attending this conference learn about the microbiological aspects, pathophysiology and clinical presentations of common and emerging invasive fungal infections. Up-to-date information on diagnosis and treatment for these infections is also discussed in detail and future prospects are highlighted:

- a. Trends of fungal epidemiology in Europe
 - Global trends in *Candida* species distribution. Elisabeth M. Johnson
 - Global trends in *Aspergillus* species and other rare moulds. Paul Verweij
- b. Zygomycosis survey in Europe. George Petrikos
- c. Current limitations in diagnosing invasive fungal infections: laboratory and imaging options
 - The classical diagnostic assays for fungal infections. Sevtap Arıkan
 - Update on molecular diagnostic tests for yeast and mould infections. Stéphane Bretagne
 - Imaging for pulmonary and extra-pulmonary fungal infections. Claus Peter Heussel
 - What is the role for in vitro-susceptibility testing for the daily routine? Cornelia Lass-Floerl
- d. New insights into antifungal resistance

- The issue of candine antifungal drug resistance in fungi. Maurizio Sanguinetti
- Molecular basis of azole resistance in *Candida* and *Aspergillus* species. Manuel Cuenca-Estrella
- Is there a need for drug monitoring of antifungals? Andreas H. Groll
- The role of heat-shock proteins in fungal infection. Neil Macdonald
- e. Immunopathogenesis and adjunctive therapies
 - Defining an invasive fungal infection for different settings: research vs practice. J. Peter Donnelly
 - Targeted immune suppressive therapies and emerging fungal infections. Winfried V. Kern
 - Air and the risk of invasive pulmonary aspergillosis. Emilio Bouza
 - Solid organ transplantation. Patricia Munoz
 - Host immune response to fungal infections. Emmanuel Roilides
- f. Risk assessment and therapeutic choices
 - Risk assessment for the invasive fungal infections in the ICU. Murat Akova
 - Treatment of *Candida* sepsis in the ICU. Thierry Calandra
 - Cryptococcosis: an example for fungal immune reconstitution syndrome. Olivier Lortholary
 - Does treatment differ in children? Theoklis Zaoutis
- g. Strategies in treatment and prophylaxis of invasive fungal infections
 - Infection control and prevention of mould infections. Georg Maschmeyer
 - Prophylaxis versus treatment. Andrew Ullmann
 - Empirical therapy and pre-emptive approach. Johan Maertens
 - Combination antifungal therapy: everybody knows that it works, but where are the data? Claudio Viscoli

3. Organization of meetings for elaboration of ESCMID Guidelines for diagnosis and treatment of *Candida* infections. Mainz and Frankfurt, 2010.

g. Funded research projects:

1. Support of FUNGISCOPE database research project. It is a global database for analysis of rare fungal infections under auspices of ISHAM, EFISG and other scientific societies.
2. Collaboration with ISHAM and ECMM in design and development of a global registry of zygomycosis and rare and emerging fungal pathogens.

PLANNED ACTIVITIES (please include one sentence stating the main topic/objective/aim of the coming year)

- a. Project: European Guidelines for the Treatment of Candidiasis are in production. These practice guidelines will provide recommendations for treatment of various forms of candidiasis. I will be present in Milan (21st ECCMID)

- b.** Project 2011-2012: To prepare European Guidelines for the Treatment of Rare Fungal Infections.
These practice guidelines will provide recommendations for treatment of various forms of rare fungal Infections. Together with EMM.
- c.** EDUCATIONAL WORKSHOP: 21st ECCMID 2011 Milano, Italy. The ESCMID Candida Guidelines will be presented. Presentation of the ESCMID Diagnostic & Management Guideline for Candida Diseases 2011:
Chairs: Andrew J. Ullmann, Manuel Cuenca-Estrella.
Development of the guideline (5 min). Andrew J. Ullmann.
Diagnostic Procedures. Manuel Cuenca-Estrella and Paul Verweij (15-20 min).
Treatment in HIV/AIDS. Olivier Lortholary (15-20 min).
Treatment in Hematology/Oncology. Andrew J. Ullmann (15-20 min).
Treatment in ICU and others Oliver, A. Cornely (15-20 min).
Treatment in Pediatrics, William Hope (15-20 min).
Closing remarks Manuel Cuenca-Estrella /Andrew J. Ullmann (5 min)
- d.** ESCMID Postgraduate Education Course. Biofilms in Nosocomial Fungal Infections. Paris, France. 31 Jan – 1 Feb 2011 Biofilms in Nosocomial Fungal Infections 2011 (31.01.-1.02.), Paris, France.
- e.** Aspergillosis: from Allergy to Invasive Disease, ESCMID Postgraduate Technical Workshop. 25 - 26 May 2011, Manchester, United Kingdom. Organizers: ESCMID Fungal Infection Study Group (EFISG) in collaboration with the Mycology Reference Centre, Manchester under the auspices of The National Aspergillosis Centre, Manchester, UK and the University Hospital of South Manchester Academy, Manchester, UK
- f.** Collaboration with Invasive Fungal Infections: Controversies and Lessons from Clinical Practice, ESCMID Postgraduate Education Course. 23 - 24 June 2011, Saint Petersburg, Russian Federation. Organizers: The Interregional Association for Clinical Microbiology and Antimicrobial Chemotherapy (IACMAC) and the Italian Society for Infectious and Tropical Diseases (SIMIT).
- g.** Participation in ESCMID Conference on Infections in Immunocompromised Hosts. 17 - 18 November 2011, Istanbul, Turkey

ADMINISTRATION

a. Number of the current members:

75

b. Agenda for General Assembly:

1. Approval of Vienna EFISG business meeting minutes 2010
2. Chairman's report
3. Educational activities of EFISG in 2010:
ESCMID Postgraduate Education Course "Invasive Fungal Infections: Host-Pathogen Interaction, 16-17 March 2010, Oslo, Norway
4. Study reports: EFISG and EUCAST projects
5. New study proposals:
European Guidelines for the Treatment of Candidiasis
European Guidelines for the Treatment of Rare Fungal Infections
6. Treasurer's report
7. Any other business

FINANCES

The total balance of the account of the EFISG was 7424.57€ at the beginning of 2010. At the end of the year the total balance was 7278.57€ due to a EFISG contribution to the Helleric Society for a Zygomycetes meeting of 5000€. The EFISG received credits of 2000€ from ESCMID and 2854€ from the PGEC Oslo. There were no interest payments of the bank and administrative charges. No other movements occurred during the year.

On a separate account the EFISG received 50,000€ specifically for the Candida Guidelines. 16433.68€ expenses were noted for two meeting. 8277.55€ for the meeting in Mainz in December 2010 and 8156.13€ for the meeting in Frankfurt in January 2011.

Balance on the date of the written annual report

7278.57€	EFISG
33566.32€	EFISG Candida Guidelines