

# AFGrica Unit

## List of confirmed faculty at end of programme

| Day 1 – Monday 10 <sup>th</sup> December |                        |   |   |
|--|------------------------|---|---|
| Time                                     | Audience Room          | Title and description   | Training Objectives   |
| 8.30 – 9.00 am                           | All Lecture Venue      | Welcome, speakers and delegates presentation                                  |   |
| 9.00 – 9.30 am                           | All Lecture Venue      | Course introduction and objectives  |   |
| 9.30 – 10 am                             | All Lecture Venue      | Final assessment presentation and pair work organisation: goals and logistics |   |
| 10.00 – 10.30 am                         | Coffee break           |   |   |
| 10.30 – 11.15 am                         | All Lecture Venue      | The Fungi:<br>General introduction & Global impact                            |   |
| 11.15 – 12.00 pm                         | All Lecture Venue      | Host immunity and fungal pathogenesis   |   |
| 12.00 – 1.00 pm                          | All Lecture Venue      | Antifungal drugs:<br>mechanisms of action and drug resistance mechanisms      |   |
| 1.00 – 2.00 pm                           | Lunch break            |   |   |
| 2.00 – 3.30 pm                           | Group 1* Lab           | Basic techniques in the mycology laboratory                                   | Specimen handling and processing, direct examination, isolation techniques... |
|  | Group 2* Lecture Venue | Clinical Trials in Africa & The Ambition Trial                                | Management of trials & how to be involved in clinical research                |
| 3.30 – 4 pm                              | Coffee Break           |   |   |
| 4.00 – 5.30 pm                           | Group 2 Lab            | Basic techniques in the mycology laboratory                                   | Specimen handling and processing, direct examination, isolation techniques... |
|  | Group 1 Lecture Venue  | Clinical Trials in Africa & The Ambition Trial                                | Management of trials & how to be involved in clinical research                |

**\*Participants will be divided in 2 groups (Group 1 & Group 2):** each of the two groups will consist of clinicians and lab scientists (50/50 split), with sessions on practical and clinical cases repeated twice for both groups.



# AFGrica Unit

| Day 2 – Tuesday 11 <sup>th</sup> December |                              |   |  |
|---|------------------------------|---|--|
| Time                                      | Audience & Room              | Title and description   | Training Objectives  |
| 9.00 – 10.30 am                           | All Lecture Venue            | <b>Pneumocystosis &amp; Dimorphics (Histoplasmosis &amp; Emergomycosis)</b>                           | Physiopathology, clinical presentation, diagnosis, clinical management |
|   |                              |   | Histopathology   |
| 10.30 – 11.00 am                          | Coffee break                 |   |  |
| 11.00 – 12.30 pm                          | All Lecture Venue            | <b>Major invasive fungal infections in non-HIV-infected patients: Aspergillosis &amp; Candidiasis</b> | Physiopathology, clinical presentation, diagnosis, clinical management |
|   |                              |   | Histopathology   |
| 12.30 – 1.30 pm                           | Lunch break                  |   |  |
| 1.30 – 3.30 pm                            | <b>Group 1</b> Lab           | <b>Identification flow chart of most common hyphomycetes and yeasts<br/>Indirect Diagnostic tools</b> |  |
|   | <b>Group 2</b> Lecture Venue |   |  |
| 3.30 – 4.00 pm                            | Coffee Break                 |   |  |
|   |                              |   |  |
| 4.00 – 6.00 pm                            | <b>Group 2</b> Lab           | <b>Identification flow chart of most common hyphomycetes and yeasts<br/>Indirect Diagnostic tools</b> |  |
|   | <b>Group 1</b> Lecture Venue |   |  |
|   |                              |   |  |

| Day 3 – Wednesday 12 <sup>th</sup> December |  |   |  |
|---|--|---|--|
| Time  | Audience & Room                                | Title and description   | Training Objectives  |
| 9.00 – 10.30 am                             | All Lecture Venue                              | <b>Mucocutaneous mycoses and oropharyngeal candidiasis</b>  | Physiopathology, clinical presentation, diagnosis, clinical management |
|   |  |   | Histopathology   |
| 10.30 – 11.00 am                            | Coffee break                                   |   |  |
| 11.00 am – 1.00 pm                          | Group 1 Lab                                    | <b>Identification flow chart &amp; histopathology: cutaneous and subcutaneous fungal infections</b> |  |
|   | Group 2 Lecture Venue                          | <b>Clinical case vignettes: Cutaneous and subcutaneous fungal infections</b>                        |  |
| 1.00 pm – 2.00 pm                           | Lunch break                                    |   |  |
| 2.00 – 4.00 pm                              | Group 2 Lab                                    | <b>Identification flow chart &amp; histopathology: cutaneous and subcutaneous fungal infections</b> |  |
|   | Group 1 Lecture Venue                          | <b>Clinical case vignettes: Cutaneous and subcutaneous fungal infections</b>                        |  |
| 4.00 – 4.30 pm                              | Coffee Break                                   |   |  |
| 4.30 – 6.00 pm                              | <b>Pair work: final assessment preparation</b> |   |  |





# AFGrica Unit

| Day 4 – Thursday 13 <sup>th</sup> December |                       |   |   |
|--|-----------------------|---|---|
| Time                                       | Audience & Room       | Title and description   | Training Objectives   |
| 9.00 – 10.30 am                            | All Lecture Venue     | <b>Cryptococcosis:</b><br><b>Epidemiology, physiopathology</b><br><b>Clinical presentation, prognosis, screening strategies</b> |   |
| 10.30 – 11.00 am                           | Coffee break          |   |   |
| 11.00 – 12.30 pm                           | All Lecture Venue     | <b>Cryptococcosis in HIV-infected patients:</b><br><b>Diagnosis tools and clinical management</b>                               |   |
| 12.30 – 1.30 pm                            | Lunch break           |   |   |
| 1.30 – 3.30 pm                             | Group 1 Lab           | <b>Diagnostic tools</b>   | - India ink preparation<br>- Rapid diagnostic tests (LFA, LA)<br>- CrAg titres<br>- CryptoPS Semi-quantitative CrAg |
|  | Group 2 Lecture Venue | <b>Clinical case vignettes:</b><br><b>CM Screening and diagnosis strategies</b>   |   |
| 3.30 – 4.00 pm                             | Coffee Break          |   |   |
| 4.00 – 6.00 pm                             | Group 2 Lab           | <b>Diagnostic tools</b>   | - India ink preparation<br>- Rapid diagnostic tests (LFA, LA)<br>- CrAg titres<br>- CryptoPS Semi-quantitative CrAg |
|  | Group 1 Lecture Venue | <b>Clinical case vignettes:</b><br><b>CM Screening and diagnosis strategies</b>   |   |

# AFGrica Unit

| Day 5 – Friday 14 <sup>th</sup> December |                             |   |  |
|--|-----------------------------|---|--|
| Time                                     | Audience & Room             | Title and description   | Training Objectives  |
| 8.30 – 9.30 am                           | Group 1<br>Lab              | Diagnostic tools  | - Cryptococcal (Quantitative) Culture<br>- CFU calculation |
|  | Group 2<br>Lecture<br>Venue | Clinical case vignettes:<br>CM clinical management  |  |
| 9.30 – 10.00 am                          | Coffee break                |   |  |
| 10.00 – 11.00<br>am                      | Group 2<br>Lab              | Diagnostic tools  | - Cryptococcal (Quantitative) Culture<br>- CFU calculation |
|  | Group 1<br>Lecture<br>Venue | Clinical case vignettes:<br>CM clinical management  |  |
| 11 am – 12 pm                            | Lunch break                 |   |  |
| 12 – 3.30 pm                             | All<br>Lecture<br>Venue     | <p><b>Final Assessment:</b></p> <p>Pair work (1 Clinician + 1 Lab scientist):<br/>Restitution: 5 – 7 minutes presentation of the topic given on Monday Dec 10<sup>th</sup>:</p> <ul style="list-style-type: none"> <li>- Strategy of diagnosis, identification and therapeutic algorithm of a clinical situation</li> <li>- or a critical analysis of a published paper</li> <li>- or identification approach of a fungal pathogen</li> </ul> |  |
| 3.30 – 4 pm                              | All<br>Lecture<br>Venue     | <p><b>Certificates of attendance dispensation</b></p> <p>Certificate validation by: AFGRICA/UCT + Institut Pasteur +<br/>LSHTM/AMBITION/EDCTP</p>   |  |



**Confirmed Teaching Team**

- **AFGrca Unit / Institute of Infectious Diseases and Molecular Medicine, University of Cape Town**
  - Dr Claire Hoving
  - Prof Graeme Meintjes
- **AFGrca Unit /MRC Centre for Medical Mycology, University of Aberdeen**
  - Prof Gordon Brown
  - Prof Adilia Warris
  - Prof Carol Munro
- **London School Hygiene and Tropical Medicine**
  - Prof Joe Jarvis
  - Dr David Lawrence
- **St Georges Hospital, University College London**
  - Prof Tom Harrison
  - Dr Angela Loyse
- **National Institute for Communicable Diseases, Johannesburg**
  - Dr Nelesh Govender
- **AMBITION PhD Student**
  - Tshepiso Mbangiwa (Lab Logistics)
- **Molecular Mycology Unit**  
**French National Reference Centre for Invasive Mycoses and Antifungals**  
**Institut Pasteur, Paris**
  - Prof Olivier Lortholary
  - Dr Alexandre Alanio
  - Dr Timothée Boyer Chammard
  - Dr Dea Garcia-Hermoso
  - Aude Sturny-Leclère