MICROBIOLOGY AND PARASITOLOGY

Organisers:
Dr G. M. Fraser (microbiology; tel. 330245, email: microbiology-organiser@path.cam.ac.uk)
Dr S. Wilson (parasitology; tel. 333332, email: parasitology-organiser@path.cam.ac.uk)

Lectures will be given in the Pathology Lecture Theatre at Tennis Court Road and commence at 9.00 am on Mondays, Wednesdays and Fridays, unless stated otherwise.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Lecturer</th>
</tr>
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<tbody>
<tr>
<td>Wed</td>
<td>Oct 4</td>
<td>3.00 pm Introduction to Part II</td>
<td>Kelly</td>
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<tr>
<td>Fri</td>
<td>Oct 6</td>
<td>9.00 am 1 Bacterial signalling</td>
<td>Fraser</td>
</tr>
<tr>
<td>Mon</td>
<td>Oct 9</td>
<td>9.00 am 2 Data interpretation for Part II Pathology</td>
<td>Trotter</td>
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<tr>
<td>Wed</td>
<td>Oct 11</td>
<td>9.00 am 3 Bacterial communication</td>
<td>Fraser</td>
</tr>
<tr>
<td>Fri</td>
<td>Oct 13</td>
<td>9.00 am 4 Bacterial motility</td>
<td>Fraser</td>
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<tr>
<td>Mon</td>
<td>Oct 16</td>
<td>9.00 am 5 Bacterial flagellum biogenesis and function</td>
<td>Fraser</td>
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<tr>
<td>Wed</td>
<td>Oct 18</td>
<td>9.00 am 6 Colonization of host surfaces: adhesion mechanisms</td>
<td>Koronakis</td>
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<tr>
<td>Fri</td>
<td>Oct 20</td>
<td>9.00 am 7 Colonization of host surfaces: biofilms</td>
<td>Fraser</td>
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<tr>
<td>Mon</td>
<td>Oct 23</td>
<td>9.00 am 8 Extracellular survival: defensive and offensive mechanisms</td>
<td>Koronakis</td>
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<tr>
<td>Wed</td>
<td>Oct 25</td>
<td>9.00 am 9 Extracellular survival: phase and antigenic variation</td>
<td>Koronakis</td>
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<tr>
<td>Fri</td>
<td>Oct 27</td>
<td>9.00 am 10 Bacterial invasion of non-phagocytic host cells</td>
<td>Hayward</td>
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<tr>
<td>Mon</td>
<td>Oct 30</td>
<td>9.00 am 11 Dissemination and exit strategies of intracellular pathogens</td>
<td>Hayward</td>
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<tr>
<td>Wed</td>
<td>Nov 1</td>
<td>9.00 am 12 Intracellular survival of bacterial pathogens I</td>
<td>Koronakis</td>
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<tr>
<td>Fri</td>
<td>Nov 3</td>
<td>9.00 am 13 Intracellular survival of bacterial pathogens II</td>
<td>Koronakis</td>
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<tr>
<td>Mon</td>
<td>Nov 6</td>
<td>9.00 am 14 Protein toxins: cytolysins</td>
<td>Hume</td>
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<tr>
<td>Wed</td>
<td>Nov 8</td>
<td>9.00 am 15 Protein toxins: targeting cell-cell adhesion and vesicle traffic</td>
<td>Hume</td>
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<tr>
<td>Fri</td>
<td>Nov 10</td>
<td>9.00 am 16 Protein toxins: manipulating intracellular signalling</td>
<td>Hume</td>
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<tr>
<td>Fri</td>
<td>Nov 10</td>
<td>2.00 - 4.00 pm Journal Presentations (Seminar Room)</td>
<td>Hughes</td>
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<tr>
<td>Mon</td>
<td>Nov 13</td>
<td>9.00 am 17 Protein toxins: disrupting the cytoskeleton, cell cycle and protein synthesis</td>
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<td>Thur</td>
<td>Nov 16</td>
<td>2.00 - 4.00 pm Journal Presentations (Seminar Room)</td>
<td>Hughes</td>
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<tr>
<td>Wed</td>
<td>Nov 17</td>
<td>9.00 am 18 Vaccines: past and present</td>
<td>Trotter</td>
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<tr>
<td>Fri</td>
<td>Nov 17</td>
<td>10.15 am 19 Modern approaches to vaccine development</td>
<td>Trotter</td>
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<tr>
<td>Mon</td>
<td>Nov 20</td>
<td>9.00 am 20 Antibiotic resistance: evolution and significance</td>
<td>Crow</td>
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<tr>
<td>Wed</td>
<td>Nov 22</td>
<td>9.00 am 21 Antibiotic resistance: molecular mechanisms</td>
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<tr>
<td>Fri</td>
<td>Nov 24</td>
<td>9.00 am 22 Antibiotic resistance: efflux pumps</td>
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<tr>
<td>Mon</td>
<td>Nov 27</td>
<td>9.00 am 23 Experimental approaches to bacterial pathogenesis I</td>
<td>Fraser</td>
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<td>Day</td>
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<td>Time</td>
<td>Event</td>
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<tr>
<td>Wed</td>
<td>Nov 29</td>
<td>9.00 am</td>
<td>Experimental approaches to bacterial pathogenesis II</td>
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<tr>
<td>Wed</td>
<td>Nov 29</td>
<td>2.00 - 4.00 pm</td>
<td>Journal Presentations (Seminar Room)</td>
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<tr>
<td>Fri</td>
<td>Dec 1</td>
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**LENT TERM 2018**

### Major Protozoan Diseases

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<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>Wed</td>
<td>Jan 17</td>
<td>9.00 am</td>
<td>Intro to Apicomplexa</td>
<td>Bull</td>
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<td></td>
<td></td>
<td>4.00 pm</td>
<td>Toxoplasma</td>
<td>Ajioka</td>
</tr>
<tr>
<td>Fri</td>
<td>Jan 19</td>
<td>2.00 pm</td>
<td>Coccidia: pathogenesis</td>
<td>Blake</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.15 pm</td>
<td>Coccidia: control</td>
<td>Blake</td>
</tr>
<tr>
<td>Wed</td>
<td>Jan 24</td>
<td>9.00 am</td>
<td>No Lecture</td>
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<tr>
<td><strong>Wed Jan 24</strong></td>
<td><strong>1.30 – 3pm</strong></td>
<td><strong>Paper Presentations</strong></td>
<td>Bull</td>
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<tr>
<td>Fri</td>
<td>Jan 26</td>
<td>9.00 am</td>
<td>Introduction to <em>Plasmodium</em> species</td>
<td>Bull</td>
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<tr>
<td>Mon</td>
<td>Jan 29</td>
<td>9.00 am</td>
<td><em>Plasmodium</em>: immune evasion &amp; immunity</td>
<td>Bull</td>
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<tr>
<td>Wed</td>
<td>Jan 31</td>
<td>9.00 am</td>
<td><em>Plasmodium</em>: cell invasion</td>
<td>Rayner</td>
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<td><strong>Wed Jan 31</strong></td>
<td><strong>1.30 – 3pm</strong></td>
<td><strong>Paper Presentations</strong></td>
<td>Artavanis-Tsakonas</td>
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<tr>
<td>Fri</td>
<td>Feb 2</td>
<td>9.00 am</td>
<td><em>Plasmodium</em>: vector biology</td>
<td>Howick</td>
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<tr>
<td>Mon</td>
<td>Feb 5</td>
<td>9.00 am</td>
<td><em>Plasmodium</em>: Pathology</td>
<td>Artavanis-Tsakonas</td>
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<tr>
<td>Wed</td>
<td>Feb 7</td>
<td>9.00 am</td>
<td><em>Plasmodium</em>: Vaccines and control</td>
<td>Artavanis-Tsakonas</td>
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<tr>
<td>Fri</td>
<td>Feb 9</td>
<td>9.00 am</td>
<td>Trypanosomatids: Leishmania</td>
<td>Cotton</td>
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<tr>
<td>Mon</td>
<td>Feb 12</td>
<td>9.00 am</td>
<td>Chemotherapy: anti-protozoal strategies (confirmed)</td>
<td>Croft</td>
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<tr>
<td>Wed</td>
<td>Feb 14</td>
<td>2.00 pm</td>
<td>Trypanosomatids: <em>T. brucei</em> (confirmed)</td>
<td>Kelly</td>
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<tr>
<td>Wed</td>
<td>Feb 14</td>
<td>3.15 pm</td>
<td>Trypanosomatids: <em>T. cruzi</em></td>
<td>Kelly</td>
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<tr>
<td>Mon</td>
<td>Feb 19</td>
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### Major Helminth Diseases

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<thead>
<tr>
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<tbody>
<tr>
<td>Wed</td>
<td>Feb 21</td>
<td>9.00 am</td>
<td>Helminths: epidemiology 1 – gut nematodes</td>
<td>Wilson</td>
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<tr>
<td>Fri</td>
<td>Feb 23</td>
<td>9.00 am</td>
<td>Helminths: epidemiology 2 - schistosomiasis</td>
<td>Wilson</td>
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<tr>
<td>Mon</td>
<td>Feb 26</td>
<td>9.00 am</td>
<td>Helminths: immunity 1 – gut mucosal</td>
<td>Wilson</td>
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<tr>
<td>Wed</td>
<td>Feb 28</td>
<td>9.00 am</td>
<td>Helminths: immunity 2 - IgE</td>
<td>Wilson</td>
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<td><strong>Wed Feb 28</strong></td>
<td><strong>1.30 – 3pm</strong></td>
<td><strong>Paper Presentations</strong></td>
<td>Wilson</td>
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<tr>
<td>Fri</td>
<td>Mar 2</td>
<td>9.00 am</td>
<td>Helminths: immuno-regulation</td>
<td>Wilson</td>
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<tr>
<td>Mon</td>
<td>Mar 5</td>
<td>9.00 am</td>
<td>Helminths: morbidity 1 – pathology</td>
<td>Wilson</td>
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<tr>
<td>Wed</td>
<td>Mar 7</td>
<td>9.00 am</td>
<td>Helminths: morbidity 2 - subtle morbidities</td>
<td>Wilson</td>
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<tr>
<td>Fri</td>
<td>Mar 9</td>
<td>10am - noon</td>
<td>Data Handling (Single Subject only)*</td>
<td>Wilson</td>
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<td>Mon</td>
<td>Mar 12</td>
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<tr>
<td>Wed</td>
<td>Mar 14</td>
<td>2.00 pm</td>
<td>Cestodes</td>
<td>Olson</td>
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<tr>
<td>Fri</td>
<td>Mar 16</td>
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### EASTER TERM 2018

<table>
<thead>
<tr>
<th>Day</th>
<th>Month</th>
<th>Date</th>
<th>Time</th>
<th>Lecture/Session</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>Wed</td>
<td>Apr</td>
<td>25</td>
<td>9am – 11am*</td>
<td>Tutorial Microbiology</td>
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<tr>
<td>Fri</td>
<td>Apr</td>
<td>27</td>
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<tr>
<td>Mon</td>
<td>Apr</td>
<td>30</td>
<td>9.00 am</td>
<td>Epidemiology I: micro parasite population dynamics (confirmed)</td>
<td>Michael</td>
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<td>10.15am</td>
<td>Epidemiology II: macroparasite population dynamics</td>
<td>Michael</td>
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<tr>
<td>Tue</td>
<td>May</td>
<td>1</td>
<td>2 – 4pm*</td>
<td>Tutorial Parasitology</td>
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<tr>
<td>Wed</td>
<td>May</td>
<td>2</td>
<td>9.00 am</td>
<td>Epidemiology III: vector-borne parasite population dynamics</td>
<td>Michael</td>
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<td>10.15 am</td>
<td>Epidemiology IV: parasite case study - Lymphatic filariasis</td>
<td>Michael</td>
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<tr>
<td>Fri</td>
<td>May</td>
<td>4</td>
<td>9.00 am</td>
<td>Epidemiology V: disease control</td>
<td>Michael</td>
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<td>10.15 am</td>
<td>Epidemiology VI: climate change &amp; health</td>
<td>Michael</td>
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<tr>
<td>Mon</td>
<td>May</td>
<td>7</td>
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<td>NO LECTURE – BANK HOLIDAY</td>
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<tr>
<td>Wed</td>
<td>May</td>
<td>9</td>
<td>9.30 am – 1pm</td>
<td>Part II Project and Dissertation Seminars*</td>
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*Seminar Room – Dept. of Pathology, T.C.R.

**Bank Holiday

Bibliographic IT training will be available on multiple dates at the start of Michaelmas Term. Students need only to attend one of the sessions. Please complete the form available here to select the session you will attend [https://www.surveymonkey.co.uk/r/PathPartII-2017](https://www.surveymonkey.co.uk/r/PathPartII-2017)