

**UNIVERSITY OF NAIROBI, DEPARTMENT OF BIOCHEMISTRY**  
**SECOND YEAR MBCh.B, BDS & B. PHARM, LECTURE SCHEDULE (2017/2018)**

|                                                                                       | WEEK                                             | TOPIC                                                                                                                                                             | LECTURER(S)                       |
|---------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>F<br/>I<br/>R<br/>S<br/>T<br/><br/>S<br/>E<br/>M<br/>E<br/>S<br/>T<br/>E<br/>R</b> | <b>WEEK 1</b><br>27/11/2017<br>to<br>01/12/2017  | <b>Tissue metabolism:</b><br>Differential metabolism in Liver, Muscle, Adipose, Brain and erythrocytes.                                                           | <b>Prof. Mukuria</b>              |
|                                                                                       | <b>WEEK 2</b><br>04/12/2017<br>to<br>08/12/2017  | Biochemistry of Muscle contraction.<br>Integration of metabolism.                                                                                                 | <b>Prof. Mukuria</b>              |
|                                                                                       | <b>WEEK 3</b><br>11/12/2017<br>to<br>15/12/2017  | <b>Drug metabolism:</b><br>Biotransformation of drugs, phase I and phase II.                                                                                      | <b>Prof. Mukuria</b>              |
|                                                                                       | <b>WEEK 4</b><br>18/12/2017<br>to<br>22/12/2017  | Biotransformation of drugs, phase I and phase II.                                                                                                                 | <b>Prof. Mukuria</b>              |
|                                                                                       | <b>WEEK 5</b><br>08/01/2018<br>to<br>12/01/2018  | <b>Neurochemistry:</b> Brain energy sources. The blood brain barrier.<br>Neurotransmitters.                                                                       | <b>Dr. Chek</b>                   |
|                                                                                       | <b>WEEK 6</b><br>15/01/2018<br>to<br>19/01/2018  | <b>Biochemical endocrinology:</b> Synthesis, storage, release, transport, mode of action and degradation of peptide, steroid and prostaglandins derived hormones. | <b>Dr. Chek</b>                   |
|                                                                                       | <b>WEEK 7</b><br>22/01/2018<br>to<br>26/01/2018  | <b>CAT 1: Friday 8.00-10.00am</b>                                                                                                                                 | <b>Prof. Mukuria and Dr. Chek</b> |
|                                                                                       | <b>WEEK 8</b><br>29/01/2018<br>to<br>02/02/2018  | <b>Parasite biochemistry:</b> Special metabolism in parasitic protozoa and helminths                                                                              | <b>Dr. Mobegi</b>                 |
|                                                                                       | <b>WEEK 9</b><br>05/02/2018<br>to<br>09/02/2018  | <b>Parasite biochemistry:</b> Special metabolism in parasitic protozoa and helminths cont.                                                                        | <b>Dr. Mobegi</b>                 |
|                                                                                       | <b>WEEK 10</b><br>12/02/2018<br>to<br>16/02/2018 | <b>Bacterial Biochemistry:</b><br>Cell wall structure gram positive and gram-negative bacteria.                                                                   | <b>Dr. Kamau</b>                  |
|                                                                                       | <b>WEEK 11</b><br>19/02/2018<br>to<br>23/02/2018 | <b>Bacterial Biochemistry:</b><br>The lipopolysaccharide molecule, bacterial toxins and virulence.                                                                | <b>Dr. Kamau</b>                  |
|                                                                                       | <b>WEEK 12</b><br>26/02/2018<br>to<br>02/03/2018 | <b>Bacterial Biochemistry:</b><br>Mechanism of bacterial resistance.                                                                                              | <b>Dr. Kamau</b>                  |
|                                                                                       | <b>WEEK 13</b><br>05/03/2018<br>to<br>09/03/2018 | <b>Purine and Pyrimidine metabolism:</b> Degradative pathways (gout, Lesch-Nyhan syndrome).                                                                       | <b>Dr. Mobegi</b>                 |
|                                                                                       | <b>WEEK 14</b><br>05/03/2018<br>to<br>09/03/2018 | <b>Purine and Pyrimidine metabolism:</b> Inhibitors of purine/pyrimidine biosynthesis in cancer chemotherapy cont.                                                | <b>Dr. Mobegi</b>                 |
|                                                                                       | <b>WEEK 15</b><br>05/03/2018<br>to<br>09/03/2018 | DNA structure, replication in eukaryotes and prokaryotes.<br>Transcription, Translation/genetic code, Pre-and Post-translational modifications.                   | <b>Dr. Mobegi</b>                 |
|                                                                                       | <b>WEEK 16</b><br>05/03/2018<br>to<br>09/03/2018 | <b>Tutorials</b>                                                                                                                                                  | <b>All</b>                        |

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|  | WEEK 17<br>12/03/2018<br>to<br>16/03/2018 | <b>END OF FIRST SEMESTER CONTINUOUS ASSESMENT TEST<br/>/EXAM</b> | <b>All</b> |
|  | WEEK 18<br>19/03/2018<br>to<br>23/03/2018 | <b>END OF FIRST SEMESTER CONTINUOUS ASSESMENT<br/>TEST/EXAM</b>  | <b>All</b> |

### **Lecture hours**

Tuesdays: 2.00 - 5.00 pm

Thursdays: 2.00 - 5.00 pm

**Venue: Millennium Hall 2**

### **Practicals**

Group B: Thursdays - 8.00-11.00am

Group A: Fridays - 10.00am - 1.00pm

**Venue: Biochemistry Lab – B12**

**Coordinator: Dr. J. Kamau, Office No. B61 - Biochemistry Department, 2<sup>nd</sup> Floor**

Prepared by \_\_\_\_\_ Date \_\_\_\_\_  
*Dr. J. Kamau (Coordinator)*

Approved by \_\_\_\_\_ Date \_\_\_\_\_  
*Chairman, Department of Biochemistry*