

Department of Medical Biophysics
Fundamentals in Cell and Molecular Biology
MBP 1007

Course coordinator - Rama Khokha, 416-946-2051; rkhokha@uhnres.utoronto.ca
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The course MBP 1007 forms one-half credit. The focus of this course is to provide a comprehensive background in aspects of cellular and molecular biology and to ensure that all cell, molecular and structural biology students have a similar foundation within MBP. Consequently, it is mandatory for all students in the cell and molecular biology, and molecular and structural biology streams. The course will be given from Sept 26th - Dec 12th 2008, on Fridays at 2:45-4:45. These twelve 2 hour lectures will held in room 7-605. The topics to be covered are as follows:

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| Protein Structure – | 1 lecture | Dr. Avijit Chakrabartty |
| Fundamentals in Imaging Physics – | 4 lectures | Dr. Alex Vitkin (2) Dr. Peter Burns (2) |
| Nucleic Acids – | 1 lecture | Dr. Philip Marsden |
| Cell Cycle – | 1 lecture | Dr. Jorge Filmus |
| Oncogenes and Tumor Suppressors- | 1 lecture | Dr. Yaacov Ben-David |
| Animal Models – | 1 lecture | Dr. Hitoshi Okada |
| Methods – | 2 lectures | Dr. Jeffrey Medin Dr. Linda Penn |
| Cell Signalling - | 1 lecture | Dr. Dwayne Barber |

Recommended textbooks for this course include:

1. The Biology of Cancer by Robert A Weinberg
2. Molecular Biology of the Cell by Albert, Johnson, Lewis, Roberts and Walter

Format for course evaluation: to be determined

MBP 1008: This course will begin in January 2009 and will comprise of different modules as in the previous years.