

| <b>Cell and Tissue Biology</b>                |     |    |    |          |  |                 |
|---|-----|----|----|----------|--|-----------------|
| Thu   | Oct | 4  | 1  | 9:00 AM  | Cell morphology *                                      | D'Avino         |
| Sat   | Oct | 6  | 2  | 9.00 AM  | Tissue morphology *                                    | D'Avino         |
| Tue   | Oct | 9  | 3  | 9:00 AM  | Cell cycle regulation I *                              | Laman           |
| Wed   | Oct | 10 |    | 9:00 AM  | Data interpretation session for all options            | Trotter         |
| Thu   | Oct | 11 | 4  | 9:00 AM  | Cell cycle regulation II *                             | Laman           |
| Sat   | Oct | 13 | 5  | 9:00 PM  | Mechanics and control of cell division I *             | D'Avino         |
| Tue   | Oct | 16 | 6  | 9:00 AM  | Mechanics and control of cell division II *            | D'Avino         |
| Wed   | Oct | 17 | 7  | 4.00 PM  | Stem cells I *   | Rawlins         |
| Thu   | Oct | 18 | 8  | 9:00 AM  | Stem cells II *  | Rawlins         |
| Thu   | Oct | 18 | 9  | 2:00 PM  | Life and death of cells I *                            | Watson          |
| Tue   | Oct | 23 | 10 | 9:00 AM  | Life and death of cells II*                            | Watson          |
| <b>Genomic Approaches to Disease</b>          |     |    |    |          |  |                 |
| <i>Organisation and Mapping of the Genome</i> |     |    |    |          |  |                 |
| Wed   | Oct | 24 | 11 | 4.00 PM  | What makes a genome?                                   | Skinner         |
| Thu   | Oct | 25 | 12 | 9:00 AM  | How do genomes evolve?                                 | Skinner         |
| Sat   | Oct | 27 | 13 | 9:00 AM  | How do genomes differ?                                 | Sargent         |
| Tue   | Oct | 30 | 14 | 9:00 AM  | What chromosome studies tell us about disease          | Skinner         |
| Thu   | Nov | 1  | 15 | 9:00 AM  | Mapping disease genes for simple disorders             | Sargent         |
| Fri   | Nov | 2  | 16 | 4.00 PM  | Complex disorders: populations and pedigrees (I)       | Sargent         |
| Sat   | Nov | 3  | 17 | 9:00 AM  | Non-coding RNA   | Enright         |
| Tue   | Nov | 6  | 18 | 9:00 am  | Sex chromosome specialisation and disease              | Sargent/Skinner |
| <i>Rare Diseases</i>                          |     |    |    |          |  |                 |
| Weds  | Nov | 7  | 19 | 4.00 PM  | Next generation sequencing approaches to rare diseases | Enright         |
| <i>Neurodegenerative Disease</i>              |     |    |    |          |  |                 |
| Thu   | Nov | 8  | 20 | 9:00 AM  | Introduction to autophagy                              | Rubinsztein     |
|   |     |    | 21 | 10.00 AM | Autophagy and neurodegeneration                        | Rubinsztein     |
| <i>Chromatin Regulation and Epigenetics</i>   |     |    |    |          |  |                 |
| Tue   | Nov | 13 | 22 | 9.00 AM  | Non-Mendelian inheritance                              | Quilter         |
| Thu   | Nov | 15 | 23 | 9.00 AM  | Epigenetic Disease                                     | Quilter         |
| Fri   | Nov | 16 | 24 | 4.00 PM  | The developmental origins of disease                   | Ozanne          |
| Tue   | Nov | 20 | 25 | 9:00 AM  | Chromatin structure and expression                     | Bannister       |
| Thu   | Nov | 22 | 26 | 9:00 AM  | Long-range regulation of gene transcription            | Bannister       |
| Tue   | Nov | 27 | 28 | 9:00 AM  | DNA methylation and gene activity                      | Constancia      |
| Thu   | Nov | 29 | 29 | 9.00 AM  | Genomic imprinting: lessons from mouse models          | Constancia      |

| <b>Molecular and Cell Biology of Cancer</b> |     |    |    |         |                                 |        |
|---|-----|----|----|---------|---------------------------------|--------|
| <i>Oncogenes and Tumour Suppressors</i>     |     |    |    |         |                                 |        |
| Tue   | Jan | 15 | 30 | 9:00 AM | Tumour suppressors *            | Laman  |
| Wed   | Jan |    |    |         | Tutorial session on MT topics   |        |
| Fri   | Jan | 18 | 31 | 4.00 PM | Oncogenic pathways I *          | Watson |
| Sat   | Jan | 19 | 32 | 9:00 AM | Oncogenic pathways II *         | Watson |
| Tue   | Jan | 22 | 33 | 9:00 AM | Cell senescence and telomeres * | Narita |

| <b><i>The Cancer Genome</i></b>          |     |    |    |          |   |         |
|--|-----|----|----|----------|---|---------|
| Thu                                      | Jan | 24 | 34 | 9:00 AM  | Investigating the cancer genome *                           | Edwards |
| Sat                                      | Jan | 26 | 35 | 9:00 AM  | What mutations drive carcinomas?*                           | Edwards |
| Tue                                      | Jan | 29 | 36 | 9:00 AM  | Transcription factors and transcription networks in cancer* | Carroll |
| Thu                                      | Jan | 31 | 37 | 9:00 AM  | Nuclear receptors in cancer *                               | Carroll |
| Sat                                      | Feb | 2  | 38 | 9:00 AM  | Epigenetics in cancer I *                                   | Vire    |
| Tue                                      | Feb | 5  | 39 | 9:00 AM  | Epigenetics in cancer II *                                  | Vire    |
| Thu                                      | Feb | 7  | 40 | 9:00 AM  | Micro RNAs in cancer *                                      | Murray  |
| Sat                                      | Feb | 9  | 41 | 9:00 AM  | Genomic instability I *                                     | D'Avino |
| Tue                                      | Feb | 12 | 42 | 9:00 AM  | Genomic instability II                                      | D'Avino |
| Thu                                      | Feb | 14 | 43 | 9:00 AM  | Genomic instability III *                                   | D'Avino |
| <b><i>Cancer Examples and Models</i></b> |     |    |    |          |   |         |
| Fri                                      | Feb | 15 | 44 | 14:00 PM | Models of Cancer I *  | Turner  |
| Sat                                      | Feb | 16 | 45 | 9:00 AM  | Models of Cancer II *                                       | Turner  |
| Thu                                      | Feb | 21 | 46 | 9:00 AM  | Hereditary Cancer I *                                       | Maher   |
| Fri                                      | Feb | 22 | 47 | 3:00 PM  | Hereditary Cancer II *                                      | Maher   |
| Tue                                      | Feb | 26 | 48 | 9:00 AM  | Stem cells and cancer *                                     | Huntly  |
| Thu                                      | Feb | 28 | 49 | 9:00 AM  | The tumour microenvironment *                               | Shields |
| Sat                                      | Mar | 2  | 50 | 9:00 AM  | Inter and Intra-tumour heterogeneity *                      | Bruna   |
| Tue                                      | Mar | 5  | 51 | 9:00 AM  | Paediatric Cancer I *                                       | Coleman |
| Thu                                      | Mar | 7  | 52 | 9:00 AM  | Paediatric Cancer II *                                      | Coleman |
| Sat                                      | Mar | 9  | 53 | 9:00 AM  | Oesophageal adenocarcinoma *                                | Contino |
| Tue                                      | Mar | 12 | 54 | 9:00 AM  | Haematopoietic cancers: Lymphoma *                          | Du      |
| Thu                                      | Mar | 14 | 55 | 9:00 AM  | Invasion and Metastasis *                                   | Bruna   |

| <b><i>Easter Term</i></b> |     |    |  |          |                                      |  |
|---------------------------|-----|----|--|----------|--------------------------------------|--|
| Tue                       | Apr | 30 |  | 10:00 AM | Project Presentations (Seminar Room) |  |