**Laboratory Schedule 2017**

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| --- | --- | --- | --- | --- | --- | --- |
| M | 1/ | 23 | Tu | 1/ | 24 | Lab 0.1: Introduction to micro-pipetting: Micro‑Mixology |
| W | 1/ | 25 | Th | 1/ | 26 | Lab 1.1: DNA Extraction |
| M | 1/ | 30 | Tu | 1/ | 31 | Lab 1.2: DNA Quantification |
| W | 2/ | 1 | Th | 2/ | 2 | Lab 0.2: Introduction to Wiki |
|  |  |  |  |  |  | ***Lab 1 Wiki due*** |
| M | 2/ | 06 | Tu | 2/ | 07 | Lab 2.1: Initial Working Maps |
| W | 2/ | 08 | Th | 2/ | 09 | Lab 2.2: Finalizing Gene Models |
|  |  |  |  |  |  | ***Lab 2 Wiki first part due*** |
|  |  |  |  |  |  | ***Lab 1 Write-up due*** |
| M | 2/ | 13 | Tu | 2/ | 14 | Lab 2.3: Choosing PCR Primers |
| W | 2/ | 15 | Th | 2/ | 16 | Lab 2.4: Testing PCR Conditions |
| M | 2/ | 20 | Tu | 2/ | 21 | NO CLASS/Make-up lab |
| W | 2/ | 22 | Th | 2/ | 23 | Lab 2.5: Restriction Mapping |
| M | 2/ | 27 | Tu | 2/ | 28 | Lab 3.1: Identifying T-DNA insertion sitesLab 0.3: *Arabidopsis* Essentials |
| W | 3/ | 01 | Th | 3/ | 02 | Lab 3.2: Salk line genetics |
|  |  |  |  |  |  | ***Lab 2 Wiki complete due*** |
| M | 3/ | 06 | Tu | 3/ | 07 | Lab 3.3: Phenotype testing of SALK mutants |
| ***Lab 2 report due*** |
| W | 3/ | 08 | Th | 3/ | 09 | Lab 4.1: Basic Local Alignment Tool (BLAST) |
| (transfer cellophanes) |
| M | 3/ | 13 | Tu | 3/ | 14 | SPRING BREAK |
| W | 3/ | 15 | Th | 3/ | 16 |
| M | 3/ | 20 | Tu | 3/ | 21 | Lab 4.2: Library Research |
| W | 3/ | 22 | Th | 3/ | 23 | Lab 4.3: Representing Sequence Similarity Data |
|  |  |  |  |  |  | ***Lab 4 Wiki due*** |
| M | 3/ | 27 | Tu | 3/ | 28 | Lab 3.4: Identifying genotypes of Salk-line plants: DNA extraction and PCR |
| W | 3/ | 29 | Th | 3/ | 30 | Lab 3.5: Identifying genotypes of Salk-line plants: Analysis |
| M | 4/ | 03 | Tu | 4/ | 04 | Lab 5.1: Microarray Resources |
| W | 4/ | 05 | Th | 4/ | 06 | Lab 5.2: Statistical Analysis of Microarray Data |
|  |  |  |  |  |  | ***Lab 3 Wiki due*** |
| M | 4/ | 10 | Tu | 4/ | 11 | Lab 5.3: RT-PCR Planning |
| W | 4/ | 12 | Th | 4/ | 13 | Lab 5.4: RNA Extraction and Quantification |
|  |  |  |  |  |  | ***Lab 3 report due*** |
| M | 4/ | 17 | TuM | 4/ | 18 | NO CLASS/Make-up lab |
| W | 4/ | 19 | Th | 4/ | 20 | Lab 5.5: Reverse Transcription and PCR |
| M | 4/ | 24 | Tu | 4/ | 25 | Lab 5.6: Analysis of qPCR Reactions |
| W | 4/ | 26 | Th | 4/ | 27 | Work on Wiki and final presentation***Lab 5 Wiki due*** |
| M | 5/ | 1 | Tu | 5/ | 02 | ***Presentations*** |
|  |  |  |  |  |  | ***Lab 5 report due during Final Exam period*** |
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