

Cronograma 2020 (Aulas remotas)**Dsiciplina: Aspectos moleculares da biologia do gene****Docentes: Profa Dra. Taisa Magnani Dinamarco****Dra. Paula Fagundes de Gouvêa Bizzi**

DATA	AULA	ARTIGOS	ALUNOS
14/09	Apresentação		
21/09	Sem aula		
28/09	Estrutura e função DNA	1. Molecular Structure of Nucleic Acids; 2. Instability and decay of the primary structure of DNA;	1 – Gabriel Ernesto S. Trentin 2 – Giovanna C. Yaekashi
05/10	Replicação DNA	3. The Replication of DNA in <i>Escherichia coli</i> 4. Mechanism of DNA chain growth, i. Possible discontinuity and unusual secondary structure of newly synthesized chains; 5. Replication and protection of telomeres;	3 - Maria Izabel C. da Costa 4 - João Luiz R. da Silva 5 – Newton C. da Silva Junior
12/10	FERIADO	SEM AULA	
19/10	RNAs	6. Identification of Novel Genes Coding for Small Expressed RNAs; 7. RNA contributions to the form and function of biomolecular condensates;	6 – Vitor M. S. Moraes 7 – Mayara C. V. Machado
26/10	Transcrição - Proteínas	8. Genetic control of biochemical reactions in <i>Neurospora</i> ; 9. Proteomic and interactomic insights into the molecular basis of cell functional diversity;	8 - Gustavo H. T. Silva 9 – Em aberto
02/11	FERIADO	SEM AULA	
09/11	PCR PCR Real time	10. Specific enzymatic amplification of DNA in vitro: The Polymerase Chain Reaction; 11. Molecular diagnostic technologies for COVID-19: Limitations and challenges;	10 - Jonatã Bortolucci 11 – Talita C. de Tralia Medeiros
16/11	Sequenciamento de DNA Next-generation Sequencing	12. DNA sequencing with chain-terminating inhibitors; 13. Next-generation DNA sequencing methods;	12 - Dhára C. de Oliveira 13 - Lucas D. R. dos Santos
23/11	RNAseq	14. RNAseq: a revolutionary tool for transcriptomic; 15. Transcriptomic characteristics of bronchoalveolar lavage fluid and peripheral blood mononuclear cells in COVID-19 patients;	14 – Thassia Mayra T. Carratto 15 – Rafael de Moraes Altafini
30/11	CRISPR/Cas9	16. A programmable dual RNA-guided DNA endonuclease in adaptive bacterial immunity; 17. Prime Editing: A New Way for Genome Editing	16 – Deborah K. Yonamine 17 – Romário de Sousa Mascarenhas