

Dados da Disciplina

Instituição de Ensino Superior:

UNIVERSIDADE ESTADUAL DO NORTE FLUMINENSE DARCY RIBEIRO

Programa:

BIOTECNOLOGIA VEGETAL (31033016018P2)

Nome:

FUNDAMENTOS EM BIOLOGIA CELULAR VEGETAL

Sigla:

LBC

Número:

2737

Créditos:

2

Período de Vigência:

05/03/2018 à -

Disciplina obrigatória:

Não

Ementa:

Esta disciplina integra o módulo de fundamentos em Biologia Vegetal e se dedicar a ressaltar aspectos estruturais e funcionais da célula vegetal em contexto subcelular, celular e tecidual. O curso se inicia com o tópico (a) Introdução às Células Vegetais com ênfase na diversidade morfológica e funcional das células, nos princípios da unidade bioquímica e suas relações evolucionárias com outros seres vivos; (b) Na elucidação da estrutura e dinâmica celular vegetal serão exploradas diferentes técnicas de microscopia óptica e eletrônica combinadas com ferramentas de biologia molecular; (c) A Parede celular vegetal como entidade singular da corpo da planta e seus atributos como barreira estrutural e matriz funcionalmente dinâmica relacionada ao controle da expansão celular, interação com fatores bióticos e abióticos e outros processos moduladores relação forma-função; (d) Características estruturais comuns as membranas biológicas, aspectos relacionados ao transporte de íons e macromoléculas através das membranas e princípios de reconhecimento e sinalização celular; (e) Organelas energéticas (mitocôndria e cloroplastos) com ênfase na origem, estrutura função e integração metabólica; (e) Ciclo de vida da célula vegetal: divisão celular, dinâmica do citoesqueleto e morte celular programa e seus controle na expressão da forma e da função e (f) A Biologia Celular Vegetal e sua integração com a Genética, Bioquímica, Anatomia e Fisiologia Vegetal: uma análise crítica de suas inter-relações por meio de exemplos, bem como o uso dos fundamentos da biologia celular vegetal na construção de soluções em biotecnologia vegetal.

Bibliografia:

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Cursos

Curso:

BIOLOGIA VEGETAL INTEGRATIVA

Nível:

Mestrado

Carga Horária:

34

Curso:

BIOLOGIA VEGETAL INTEGRATIVA

Nível:

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34

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