

Biotecnologia

Dogma Central da Biologia Molecular, DNA, RNA, Proteína; Purificação de ácidos nucléicos, extração de DNA plasmidial, enzimas de restrição, plasmídios, clonagem, transformação bacteriana; eletroforese, PCR, qPCR, cultura de tecidos de plantas, transgenia.

Bibliografia:

BROWN, T. A. Gene cloning and DNA analysis: an introduction. 6th ed. Oxford ; Hoboken, NJ: Wiley-Blackwell, 2010.
GREEN, M. R. Molecular cloning: a laboratory manual. 4th ed ed. Cold Spring Harbor, N.Y: Cold Spring Harbor Laboratory Press, 2012. LEWIN, B.; GOLDSTEIN, E. S.; KILPATRICK, S. T.; LEWIN, B. Lewin's genes XI. Burlington, MA: Jones & Bartlett Learning, 2013. COX, M. M.; NELSON, D. L. Principles of Biochemistry. 5th ed., W H Freeman & Co, 2008. NATIONAL RESEARCH COUNCIL (U.S.); NATIONAL ACADEMIES PRESS (U.S.). The new science of metagenomics: revealing the secrets of our microbial planet. Washington, DC: National Academies Press, 2007. STEFANIS, C.; ALEXOPOULOS, A.; VOIDAROU, C.; VAVIAS, S.; BEZIRTZOGLOU, E. Principal methods for isolation and identification of soil microbial communities. *Folia Microbiologica*, v. 58, n. 1, p. 61–68, 2012. Literatura específica selecionada de periódicos internacionais. PERIÓDICOS INDICADOS - disponíveis no Portal Periódicos (CAPES) Applied Environmental Microbiology Environmental Microbiology European Journal of Soil Biology FEMS Microbiology Methods in molecular biology Microbiology Molecular Ecology Molecular microbial ecology Nature Plant and Soil PLOS ONE Proceedings of the National Academy of Sciences Science Soil Biology and Biochemistry The ISME journal