

Quadrant II – Transcript and Related Materials

Programme: Bachelor of Science

Subject: Botany

Course Code: BOC 109

Course Title: Molecular Biology and Genetic Engineering

Unit: 04

Module Name: Promoters and Enhancers in Transcription

Module No: 14

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Glossary of terms/words:

Promoter: The promoter region is the sequence typically referred to upstream or right next to where a gene is about to be transcribed. It's the region where certain regulatory elements will bind; these are proteins that will bind to help RNA get transcribed.

Cis: Cis-regulatory elements or Cis-regulatory modules are regions of non-coding DNA which regulate the transcription of neighboring genes.

Helix: A helix is a spiral shape or form.

Pribnow box: The Pribnow box (also known as the Pribnow-Schaller box) is a sequence of TATAAT of six nucleotides that is an essential part of a promoter site on DNA for transcription to occur in bacteria.

Bp: Base pairs

Silencer: Silencer sequence prevents genes from being expressed as proteins.

Repressor: Any protein that binds to DNA and thus regulates the expression of genes by decreasing the rate of transcription.

