

## Chapter 14: Gene Expression: From Gene to Protein

- The DNA inherited by an organism leads to specific traits by dictating the synthesis of proteins and of RNA molecules involved in protein synthesis.
  - Proteins are the link between genotype and phenotype
- **Gene expression: process by which DNA directs synthesis of proteins or in some cases, just RNAs**
  - include two stages: transcription and translation

### 14.1: Genes specify via transcription and translation

- 1902-physician Archibald Garrod first suggested that **genes dictate phenotypes through enzymes**, proteins that catalyze chemical reactions in the cell
  - **Postulated that symptoms of a disease reflect inability to make a particular enzyme**
- Cells synthesize and degrade organic molecules via metabolic pathways that is catalyzed by enzyme

### Nutritional Mutants: Scientific Inquiry

- Beadle and Edward Tatum began studying the haploid bread mold *Neurospora crassa*.
  - They studied mutations that altered the ability of the fungus to grow on minimal medium. In order to observe a change in a mutant's phenotype, they needed to disable one allele of a protein-coding gene.
- Beadle and Tatum generated different "nutritional mutants" of *Neurospora* cells, each of which was unable to synthesize a particular essential nutrient.
- One gene-one polypeptide hypothesis: each gene is responsible for the synthesis of a single polypeptide (originally it was enzyme and then protein but it was modified)
- Genes provide instructions for making specific proteins, but RNA is the bridge between DNA and protein synthesis
- Getting from DNA to protein requires two stages:
  - Transcription and translation
- **Transcription:** synthesis of RNA using information in the DNA
  - Transcription produces mRNA
- **Translation:** synthesis of a polypeptide (protein) using information in the mRNA
  - Occurs in ribosome- they facilitate the linking of amino acids into polypeptide chains
- **Bacteria vs eukaryotes:**
  - Flow of genetic information within the cells is different with bacteria because they do not have nuclei. Therefore, nuclear membranes do not separate bacterial

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**Cracking the AP Biology Exam** Princeton Review, Kim Magloire, 2010-09 Provides techniques for achieving high scores on the AP biology exam and includes two full length practice tests *Book Review Digest*, 1923 *AP Biology Mark Anestis*, 2006-12 Provides a study plan to build knowledge and confidence discusses study skills and strategies provides two practice exams and includes a review of the core concepts covered by the material Readers' Guide to Periodical Literature, 1918 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books **Reader's Guide to Periodical Literature Supplement**, 1919 These vols contain the same material as the early vols of Social sciences humanities index **Normal Instructor and Primary Plans**, 1914 **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office, 1968 **The United States Catalog** Marion E. Potter, 1912 5 Steps to a 5 on the Advanced Placement Examinations Mark Anestis, 2001-12 A review and study guide for advanced placement study in biology **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1968 **Standard Catalog Bimonthly** H.W. Wilson Company, 1922 **Resources in Education**, 1995 *Journal of the Missouri Bar*, 1950 **The Baptist Argus**, 1900 **Psychology** Douglas A. Bernstein, 1994 This third edition of a mid to high level psychology text includes updated in review boxes and features on linkages and thinking critically and the linkage programme has been revised and streamlined for easier use A new chapter on research methods provides an overview of the various ways in which psychologists study data and establishes the research foundation for the remainder of the text It illustrates the steps taken in evaluating a research issue and introduces critical thinking **Scientific American**, 1910 Monthly magazine devoted to topics of general scientific interest Arts & Humanities Citation Index, 1997 *"The" Illustrated London News*, 1873 *Technical Book Review Index*, 1938 Monthly Index of Russian Accessions Library of Congress. Processing Department, 1965

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