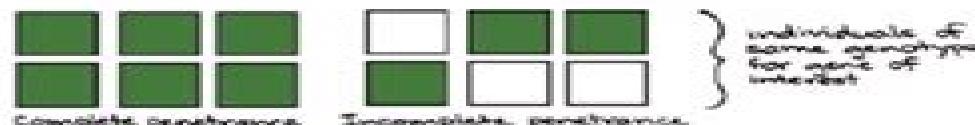


# Biology 1000 – Principles of Biology ( Bios 115 Core II: Genetics) Exam Study Guide

## 1. Explain the concepts of penetrance and expressivity

Penetrance is the percentage of cases in which a certain phenotype is expressed. There are two types:

- Complete Penetrance: when 100% is correlated to the genotype. So, all express the same thing.
- Incomplete: this is when some are identical, and others are different.



$$\text{Penetrance} = \frac{\# \text{ with genotype showing phenotype}}{\# \text{ with the genotype}} \times 100$$

Expressivity is the type or degree to which a penetrant gene (the genes carrying the mutation) or genotype are phenotypically expressed.

- Constant
- Depends on the environment

Examples: Neurofibromatosis

- 50-80% penetrance (autosomal dominance)
- Variable expressivity

## 2. Review discussion about Breast Cancer

Breast Cancer (BRCA1 and BRCA2)

- Provides instructions for making a protein that acts as a tumor suppressor
- Prevents cells from growing and dividing
- Accounts for 30-40% of families with breast cancer cases

Penetrance and BRCA

- Refers to the risk of developing breast and ovarian cancer
- A reliable estimate of penetrance is crucial for medical counseling

Penn Risk II Model

- Predicts the probability that a person has the BRCA 1 or 2 mutant gene.
- Doesn't predict the risk of having breast cancer

# Biology 1000 Exam Study Guide

**SA Dillow**

## **Biology 1000 Exam Study Guide:**

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Biology/science Materials Carolina Biological Supply Company,1991    Foundations and Trends in Smart Learning Maiga Chang,Elvira Popescu,Kinshuk,Nian-Shing Chen,Mohamed Jemni,Ronghuai Huang,J. Michael Spector,Demetrios G. Sampson,2019-03-14 This book focuses on the interplay between pedagogy and technology and their fusion for the advancement of smart learning environments It discusses various components of this interplay including learning and assessment paradigms social factors and policies emerging technologies innovative application of mature technologies transformation of curriculum and teaching behavior transformation of administration best infusion practices and piloting of new ideas The book provides an archival forum for researchers academics practitioners and industry professionals interested and or engaged in reforming teaching and learning methods by promoting smart learning environments It also facilitates discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments the need for reform innovative uses of emerging pedagogical approaches and technologies and sharing and promoting best practices leading to the evolution design and implementation of smart learning environments

The American Biology Teacher ,1993    Peterson's Annual Guides to Graduate Study ,1983    Excel Mastering the HSC Maximising Your UAI Peter Sheahan,Liz Ramsay,2002    Success Mantra to Crack Civil Services IAS/IPS Mains Exam Mrunal,Disha Experts,2019-08-08 INDEX Note for Students 1 Essay Writing 1 1 Important Tips before you start writing the essay 1 2 18 Most Important GS Paper I Topics for IAS Mains 2019 2 GS Paper I Indian Heritage and Culture History and Geography of the world and Society 2 1 Important Tips before you start writing the essay 2 2 25 Most Important GS Paper I Topics for IAS Mains 2019 3 GS Paper II Governance Constitution Polity Social Justice and International Relation 3 1 Important Tips before you start writing the essay 3 2 25 Most Important GS Paper II Topics for IAS Mains 2019 4 GS Paper III Technology Economic Development Bio diversity Environment Security and Disaster Management 4 1 Important Tips

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**October 2019 Monthly Current Affairs with MCQs for Competitive Exams** Disha Experts,2019-09-25

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**Biology** Neil A. Campbell,Jane B. Reece,2005 Neil Campbell and Jane Reece's BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter

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