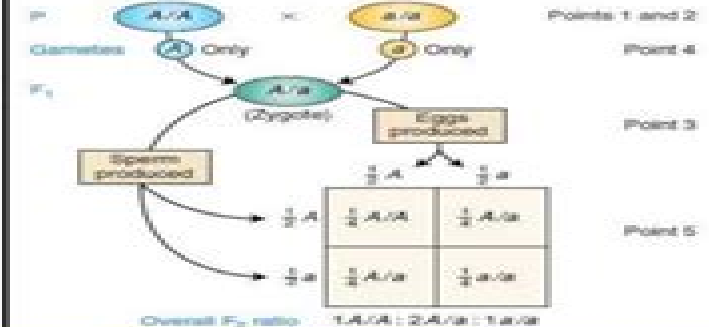
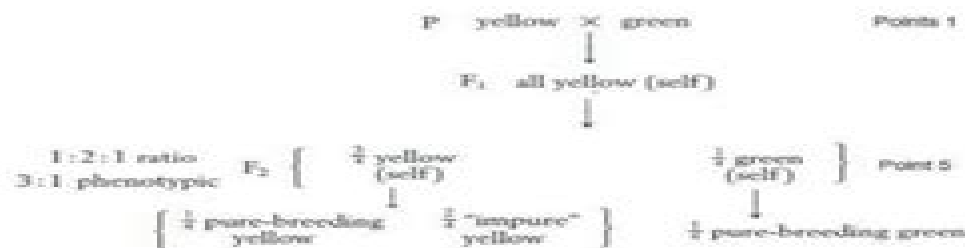


## Single-Gene Inheritance Patterns (differ only in 1 character)

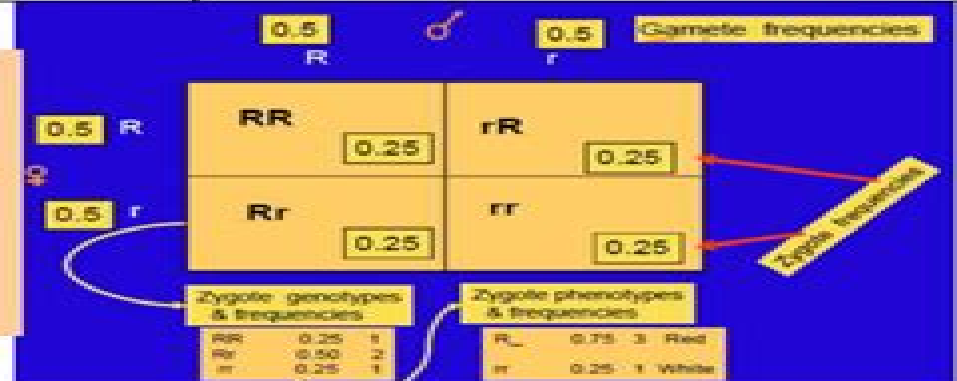
- Terminology
  - Character** – color, shape, height (etc.)
  - Phenotype** – form taken by a character
  - Genotype** – allelic combinations (YY, yy, Yy)
  - Alleles** – forms of genes (Y, y)
  - Monohybrid cross** – cross of heterozygous genotypes
- Mendel's inheritance seven rules and definitions
  - Multiple forms of genes: alleles
    - Alleles** – different forms of one type of gene (R, r) (red = white)
  - Two copies of each gene per cell (RR, Rr, rr)
  - Genes determine phenotype (R<sub>+</sub> = red, rr = white)
  - Genes transmitted intact (alleles don't change from dominant to recessive)
  - Zygote** – one allele from each parent (gene pairs are halved)
    - Each gamete carries only one member of each gene pair
  - Equal segregation** – each member of the gene pair segregate into gametes [Mendel's first law]
    - 50% of gametes will carry one member of gene pair, and 50% will carry the other
  - Independent assortment** – gene pairs on different chromosomes assort independently in gamete formation ; used for crosses between parents differing in two or more characters

- Multiple forms of genes: "alleles"
- Two copies of each gene per cell
- Genes determine phenotype
- Genes transmitted intact
- Segregation of gene pairs into gametes
- Zygote : one allele from each parent
- Independent assortment



### Steps in predicting the outcome of a cross

- Gamete genotypes and frequencies by rules 2, 4, 5
- Two copies of each gene per cell
  - Genes transmitted intact
  - Segregation of gene pairs into gametes
- Zygotic genotypes and frequencies by rule 6
- Zygote : one allele from each parent
- Zygotic phenotypes and frequencies by rule 3
- Genes determine Phenotype



# Genetics Fiu Study Guide

**IM Harris**



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*The Florida International University Hospitality and Tourism Review* ,2009      **Resources in Education** ,2001-04

**Barron's Compact Guide to Colleges** Barron's Educational Series,2002-08-10 This smaller version of Barron's definitive Profiles of American Colleges presents detailed descriptions of more than 400 accredited four year schools that fall mainly within the top three categories of Barron's exclusive academic competitiveness scale Updated with the latest facts and figures each of the Compact Guide's college profiles includes information on admission requirements academic programs tuition and fees available financial aid library and computer facilities student faculty ratios and much more      *Adolescent Education* Joseph L. DeVitis,Linda Irwin-DeVitis,2010 This book elucidates the complexities contradictions and confusion surrounding adolescence in American culture and education      *World Guide to Scientific Associations and Learned Societies* Helmut Opitz,2002 Previous editions are cited in Books for College Libraries 3rd ed This guide contains descriptions of about 17 500 associations and societies from the fields of science culture and technology Arrangement is alphabetically by name within an alphabetical listing of countries Indexing is by association names persons and subjects Each entry gives the association name where applicable extension to name abbreviation name in English former name contact information homepage year of foundation number of members names of officials details of periodical publications and whether or not a library and or archives exists New information includes details on aims and activities awards grants and events Distributed by Gale Annotation copyrighted by Book News Inc Portland OR      *The Europa World of Learning* ,2005      Working Dogs: Form and Function, Volume II Cynthia M. Otto,Nathaniel James Hall,Wendy Irene Baltzer,2021-09-29      **STUDY GUIDE FOR INTRODUCTORY GENETICS.** DAVID. PEEBLES,2020      *Science* John Michels (Journalist),2002 A weekly record of scientific progress      World of Learning 2005 Vol2 Driss Fatih,2004 Contains information on international organizations and individual chapters on academic institutions in countries from Afghanistan to Zimbabwe A comprehensive index is included in both volumes      **Introductory Genetics** David Peebles,2014-07-03      **Bibliography of Agriculture** ,1990      Sea Technology ,1995      **Study Guide for Introductory Genetics** David Peebles,2003-07-25      **Çocuk ve Taklit** Gökhan Töret,Meral Çilem Ökcün Akçamuş,Gözde Akoğlu,Gülden Bozkuş Genç,Zeynep Bahap Kudret, Taklit erken d nemden itibaren insan geli iminde hem sosyal geli im a s ndan hem de yeni davran lar n edinilmesi a s ndan nemli bir rol oynamaktad r Taklidin insanlar n geli imindeki bu nemli rol konusunda ara t rmac lar aras nda ortaya kan fikir birli i alanyaz nda belirgin olarak yerini alm t r Taklidin sosyal etkile im ve renme olmak zere insan sosyo bili sel geli iminde rol oynayan iki i levi bulunmaktad r Sosyal etkile im i levi ile taklit bebeklik d neminde bir bebe in evresi ile etkile iminde kulland ilk ara lardan biriyken renme i levi ile taklit bebeklerin ara kullan m sosyal normlar k lt rel kurallar s zel dil gibi davran lar g zlemleyerek renme s recinde kulland bir ara olarak kar m za kmaktad r Taklit becerilerinin insan geli iminde oynad kritik roller taklidin alanyaz nda s k a ara t r lan bir konu olmas n n n a m t r Bu kitapta tipik geli im g steren ve otizm spektrum bozuklu u olan

bireylerde taklit geli imine ve ilerletilmesine ili kin ara t rma bulgular do rultusunda bilgilerin sunulmas tart malara k tutulmas ve ileri ara t rma nerilerine yer verilmesi ama lanm t r T rkiye de taklit geli imi ve e itimi konusunu bilimsel ara t rmalar n bulgular nda derleyerek ele alan ilk kitap olma zelli i ta yan bu kitapta zel e itim okul ncesi e itimi ocuk geli imi ve psikoloji b l mlerinde al an akademisyenlerin yan s ra lisans st ve lisans e itimi alan rencilere bilimsel ara t rmalar n bulgular n n e li inde taklidin geli imsel ser veninin sunulmas ama lanm t r **Yearbook of International Organizations** Union of International Associations,2001 **National Trade and Professional Associations of the United States** ,2008 **Naga** ,1993 Peterson's Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work Peterson's Guides Staff,Peterson's Guides, Inc,2006-12 Detailed program listings of accredited graduate programs in the physical sciences math and agricultural sciences *Graduate Programs in the Biological Sciences 2008* Peterson's Guides Staff,Peterson's,2007-12 The six volumes of Peterson s Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 3 contains more than 4 000 programs of study in 53 disciplines of the biological sciences

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