



Colegio de San Juan de Letran
Dominican Avenue, Abucay, Bataan
Library and Media Services

RESEARCH GUIDE: GENETICS

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RESEARCH GUIDES

GENETICS

I. SCOPE NOTE

The study of genes and inheritance in living organisms. biologydictionary.net

II. SEARCH AIDS (BT: Broader Term, RT: Related Term, NT: Narrow Term)

BT:

- Biology

RT:

- Cell
- Life cycles
- Gene segregation
- Dominance relationship
- Multiple alleles
- Lethal genes
- Heredity
- DNA
- Chromosomes
- Mutation
- Genetic engineering
- Biotechnology
- Gene frequencies
- Delayed chromosomal inheritance
- Cytogenetics
- Extrachromosomal inheritance

NT:

- Mitosis
- Meiosis
- Gametic meiosis
- Sporic meiosis
- Zygotic meiosis
- Complete and incomplete dominance
- Overdominance, Co-dominance
- Recessive lethals
- Dominant lethals
- Prokaryotic
- Eukaryotic
- Proteins
- Enzymes
- Mutation

- Selection
- Migration
- Systems
- Genetic drift
- Cytoplasmic inheritance
- Chloroplasts
- Mitochondria
- Cytoplasmic particles

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

Note: For the appropriate access credentials, please contact the Letran Bataan Library

➤ E-JOURNALS

- Molecular Genetics and Genomics.
https://www.proquest.com/central/publication/publications_55367
- PLoS Genetics. https://www.proquest.com/central/publication/publications_1436339
- Journal of Phycology.
https://www.proquest.com/central/publication/publications_1006384
- European Journal of Human Genetics: EJHG.
https://www.proquest.com/central/publication/publications_34182
- Evolutionary Applications.
https://www.proquest.com/central/publication/publications_986360
- Public Health Genomics.
https://www.proquest.com/central/publication/publications_46514
- Human Genetics. https://www.proquest.com/central/publication/publications_47178
- Evolution: Education & Outreach.
https://www.proquest.com/central/publication/publications_2034764
- Journal of Assisted Reproduction and Genetics.
https://www.proquest.com/central/publication/publications_37828
- Journal of Genetic Counseling.
https://www.proquest.com/central/publication/publications_31322
- Culture, Medicine and Psychiatry.
https://www.proquest.com/central/publication/publications_36299
- Biometrics. https://www.proquest.com/central/publication/publications_35365
- Plant Systematics and Evolution.
https://www.proquest.com/central/publication/publications_2043620
- Genetics Research.
https://search.proquest.com/central/publication/publications_39447
- Genetics. https://search.proquest.com/central/publication/publications_47453
- Journal of Medical Genetics.
https://search.proquest.com/central/publication/publications_2041059

- Annual Review of Genetics.
https://search.proquest.com/central/publication/publications_35641
- Medical Education.
https://search.proquest.com/central/publication/publications_35751

➤ E-THESES

- Rassbach, K. I. (2019). Ecological genetics of stipa pulchra in environmental restoration (Order No. 22618087). Available from ProQuest Central. (2316004187). Retrieved from <https://www.proquest.com/dissertations-theses/ecological-genetics-em-stipa-pulchra/docview/2316004187/se-2?accountid=190548>
- Zhong, J. (2014). Genetics characterization of antiviral RNA interference in caenorhabditis elegans (Order No. 3644055). Available from ProQuest Central. (1624910767). Retrieved from <https://www.proquest.com/dissertations-theses/genetics-characterization-antiviral-rna/docview/1624910767/se-2?accountid=190548>
- Lavington, E. (2015). Population genetics and experiments in metabolic enzymes of drosophila melanogaster (Order No. 10001426). Available from ProQuest Central. (1758626273). Retrieved from <https://www.proquest.com/dissertations-theses/population-genetics-experiments-metabolic-enzymes/docview/1758626273/se-2?accountid=190548>
- Metcalf, J. L. (2007). Conservation genetics of the greenback cutthroat trout (oncorhynchus clarkii stomias) (Order No. 3273821). Available from ProQuest Central. (304888110). Retrieved from <https://www.proquest.com/dissertations-theses/conservation-genetics-greenback-cutthroat-trout-i/docview/304888110/se-2?accountid=190548>
- Orkin, J. D. (2014). Landscape genetics of western black crested gibbons (nomascus concolor) in china (Order No. 3670245). Available from ProQuest Central. (1650591948). Retrieved from <https://www.proquest.com/dissertations-theses/landscape-genetics-western-black-crested-gibbons/docview/1650591948/se-2?accountid=190548>
- Herniter, I. A. (2019). Genetics of consumer-related traits in cowpea (vigna unguiculata [L.] walp.) (Order No. 27663933). Available from ProQuest Central. (2370607146). Retrieved from <https://www.proquest.com/dissertations-theses/genetics-consumer-related-traits-cowpea-em-vigna/docview/2370607146/se-2?accountid=190548>
- Dohle, S. (2017). Development of resources for lima bean (phaseolus lunatus) breeding and genetics research (Order No. 10607596). Available from ProQuest Central. (1970028347). Retrieved from <https://www.proquest.com/dissertations-theses/development-resources-lima-bean-i-phaseolus/docview/1970028347/se-2?accountid=190548>
- Bunce, J. A. (2009). Ecology and genetics of color vision in callicebus brunneus, a neotropical monkey (Order No. 3375520). Available from ProQuest Central. (304837286). Retrieved from <https://www.proquest.com/dissertations-theses/ecology-genetics-color-vision-i-callicebus/docview/304837286/se-2?accountid=190548>
- Danz, S. A. (2004). Integrating genetics content in nursing education at Delaware Technical and Community College, Jack F. Owens campus (Order No. 3133784). Available from ProQuest Central. (305206238). Retrieved from <https://search.proquest.com/docview/305206238?accountid=190548>

- Lyons, B. M. (2003). Nurse practitioners' perceived knowledge of genetics and genetic testing (Order No. 1413280). Available from ProQuest Central. (250102417). Retrieved from <https://search.proquest.com/docview/250102417?accountid=190548>
- Connelly, A. D. (2010). Practicing audiologists' confidence in their understanding of genetics and the genetic counseling process (Order No. 3436849). Available from ProQuest Central. (822456073). Retrieved from <https://search.proquest.com/docview/822456073?accountid=190548>
- Holtan, N. R. (2011). From eugenics to public health genetics in mid-twentieth century Minnesota (Order No. 3457077). Available from ProQuest Central. (873812807). Retrieved from <https://search.proquest.com/docview/873812807?accountid=190548>
- Pelak, K. E. (2012). Genome-wide analyses of HIV-1 host genetics (Order No. 3503129). Available from ProQuest Central. (1009080580). Retrieved from <https://search.proquest.com/docview/1009080580?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Snustad, D. Peter. (2012). Principles of genetics. New Jersey: John Wiley & Sons, Inc. <https://www.pdfdrive.com/principles-of-genetics-d185210607.html>
- Swanson, Todd A. (2010). Biochemistry, molecular biology, and genetics, 5th edition. Philadelphia: Walter Kluwer. <https://www.pdfdrive.com/brs-biochemistry-molecularbiology-and-genetics-d40571404.html>
- Schleif, Robert F. (1996). Genetics and molecular biology. Baltimore: John Hopkins University Press. <https://www.pdfdrive.com/genetics-and-molecular-biology-jhubiology-dr-robert-schleif-d405976.html>
- Robinson, Tara Rodden. (2010). Genetics for Dummies, 2nd edition. New Jersey: John Wiley & Sons, Inc. <https://www.pdfdrive.com/genetics-for-dummies-2nd-editionwikispaces-d17380414.html>
- Clark, David P. and Pazdernik, Nanette. (2009). Biotechnology: applying the genetic revolution. Amsterdam: Elsevier. <https://www.pdfdrive.com/biotechnology-applyingthe-genetic-revolution-d18828053.html>

➤ FREE E-JOURNALS

- Genes. <https://www.mdpi.com/journal/genes>
- Journal of Genetics. <https://www.springer.com/journal/12041>
- Genetics Research. <https://www.hindawi.com/journals/gr/>
- Journal of Molecular Biology. <https://www.journals.elsevier.com/journal-of-molecular-biology>
- Molecular and Cellular Biology. <https://journals.asm.org/journal/mcb>
- PLOS Computational Biology. <https://journals.plos.org/ploscompbiol/>
- PLOS Pathogens. <https://journals.plos.org/plospathogens/>
- Journal of Genetics Study. <http://www.hoajonline.com/genetics>
- Journal of Human Genetics. <https://www.nature.com/jhg/>
- PLOS Genetics. <https://journals.plos.org/plosgenetics/>

➤ FREE E-THESES

- Willet, C. E. (2015). Applications of New and Emerging Genomic Technologies to Animal Genetics . (Thesis). University of Sydney. Retrieved from <http://hdl.handle.net/2123/14381>
- Nath, H. B. (2021). Migration and the coalescent in population genetics. (Thesis). Monash University. Retrieved from <https://doi.org/10.26180/14874930.v1>
- Kavosh, R. (2018). Ovarian Cancer: Determining Factors That Influence Referral to Genetics. (Thesis). University of California – Irvine. Retrieved from <http://www.escholarship.org/uc/item/3wn4s4f6>
- ARNATKEVICIUTE, A. (2019). Genetics of brain network hubs. (Thesis). Monash University. Retrieved from <http://hdl.handle.net/10.26180/5d1d15699c0f9>
- Swadesh, P. (2014). Genetic divergence and genetics of some yield and quality characters in solanum khasianum clarke;. (Thesis). Chaudhary Charan Singh University. Retrieved from <http://shodhganga.inflibnet.ac.in/handle/10603/19536>
- O'Brien, P. (2021). General mutation models in population genetics. (Thesis). Monash University. Retrieved from <https://doi.org/10.26180/14876742.v1>
- Bannam, T. L. (2021). Molecular genetics of the transposon Tn4451 from Clostridium perfringens. (Thesis). Monash University. Retrieved from <https://doi.org/10.26180/14835309.v1>
- Perlow, J. (2021). Statistical aspects of some diffusion models in genetics. (Thesis). Monash University. Retrieved from <https://doi.org/10.26180/14875284.v1>
- Charles, A. S. (2012). Statistics for Learning Genetics. (Doctoral Dissertation). Columbia University. Retrieved from <https://doi.org/10.7916/D8GQ74PW>
- Holtan, N. R. (2011). From eugenics to public health genetics in mid-twentieth century Minnesota. (Doctoral Dissertation). University of Minnesota. Retrieved from <http://purl.umn.edu/107845>
- Khan, S. (2020). Online Genetics for Health: An Empirical Investigation of How Users Matter. (Thesis). University of Ottawa. Retrieved from <http://hdl.handle.net/10393/40175>
- Wu, N. (2015). High-Throughput Genetics in Virus Research: Application and Insight. (Thesis). UCLA. Retrieved from <http://www.escholarship.org/uc/item/2zk3w6n2>

C. PROFESSIONAL ORGANIZATIONS

- American Society of Human Genetics. <https://www.ashg.org/>
- National Society of Genetics Counselor. <https://www.nsgc.org/>
- American College of Genetics and Genomics. <https://www.acmg.net/>

D. OTHER RELATED WEB PORTALS

- Genomics Education Websites. <https://www.genome.gov/about-genomics/teaching-tools/Genomics-Education-Websites>
- ClinGen. <https://www.clinicalgenome.org/tools/>
- Genetics Home Reference. <https://ghr.nlm.nih.gov/>

- Genetics. <https://www.genetics.org/>
- Nature Genetics. <https://www.nature.com/ng/>
- Genetic Alliance. <http://www.geneticalliance.org/>
- Translational Genomics Research Institute. <https://www.tgen.org/>

E. RELATED RESEARCH GUIDES

- University of Michigan Library. <https://guides.lib.umich.edu/c.php?g=282853&p=1884783>
- Indiana University. <https://iupui.libguides.com/genetics>
- IOWA State University. <https://instr.iastate.libguides.com/GDCB>
- Cornell University Library. https://guides.library.cornell.edu/mann_genomics_genetics
- University of Washington. <https://guides.lib.uw.edu/hsl/geneticmedicine>

IV. TUTORIALS

- Genetics Basics-Introduction. <https://www.youtube.com/watch?v=b93KDVQlvI8>
- Why Genetics? - Lesson 1. https://www.youtube.com/watch?v=mUr_ezQv1sY
- Genetics Basics | Chromosomes, Genes, DNA.
<https://www.youtube.com/watch?v=mcEV3m9SG9M>
- Genetics 101 (Part 1 of 5): What are genes?
https://www.youtube.com/watch?v=ubq4eu_TDFc
- Mendelian Genetics - A Quick Tutorial. <https://www.youtube.com/watch?v=7ETkwTicSVk>
- Six creative ways to teach genetics. <https://www.theguardian.com/teacher-network/2015/sep/07/six-creative-ways-teach-genetics-genes>
- DNA, Chromosomes, Genes, and Traits: An Intro to Heredity.
<https://www.youtube.com/watch?v=8m6hHRIKwxY>
- Genetics Generation. <https://knowgenetics.org/basic-genetics/>
- Biology Online. <https://www.biologyonline.com/tutorials/genetics-and-evolution>
- TED Ideas worth Spreading. (Video). <https://www.ted.com/topics/psychology>
- Rapid Learning. <http://www.rapidlearningcenter.com/biology/genetics/genetics.html>

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