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investigations of how the understanding of heredity developed in scientific medical agro industrial and political contexts of the late nineteenth and early twentieth centuries this book examines the wide range of scientific and social arenas in which the concept of inheritance gained relevance in the late nineteenth and early twentieth centuries although genetics emerged as a scientific discipline during this period the idea of inheritance also played a role in a variety of medical agricultural industrial and political contexts the book which follows an earlier collection heredity produced covering the period 1500 to 1870 addresses heredity in national debates over identity kinship and reproduction biopolitical conceptions of heredity degeneration and gender agro industrial contexts for newly emerging genetic rationality heredity and medical research and the genealogical constructs and experimental systems of genetics that turned heredity into a representable and manipulable object taken together the essays in heredity explored show that a history of heredity includes much more than the history of genetics and that knowledge of heredity was always more than the knowledge formulated as mendelism it was the broader public discourse of heredity in all its contexts that made modern genetics possible contributors caroline arni christophe bonneuil christina brandt luis campos jean paul gaudillière bernd gausemeier jean gayon veronika lipphardt ilana löwy j andrew mendelsohn staffan müller wille diane b paul theodore m porter alain pottage hans jörg rheinberger marsha l richmond helga satzinger judy johns schloegel alexander von schwerin hamish g spencer ulrike vedder the material basis of heredity dna the genetic material genes and biochemical reactions genes and enzymes genes in action the molecular structure of a gene genes and development genetic mechanisms genes and mand heredity and hiroshima introduction to genetics science of heredity presents a linear programmed text about hereditary and genetics this book discusses a variety of topics related to heredity and genetics including chromosomes genes mendelism mitosis and meiosis organized into six chapters this book begins with an overview of some of the experiments that first provide an understanding of heredity and laid the foundation of the science of genetics this text then provides detailed information about the cell and explains how the essential parts of it reproduce and divide other chapters consider how the chromosome theory can explain not only the facts of mendelism but also the many complications that arise in genetics this book discusses as well the problems that can happen during the process of mitosis and meiosis the final chapter deals with the practical problems that confront the plant breeder this book is a valuable resource for teachers and students of biology the classic of stalinist aberrant genetic theory horticulturist lysenko rejected orthodox genetics in favor of the theories of those of the russian horticulturist i v michurin d 1935 among his theories were that wheat raised under certain conditions produce seeds of rye and that theoretical biology must be fused with soviet agricultural

practice he was the total autocrat of soviet biology from 1948 through 1953 and believed that through inherited characteristics stalinism would create a new man lysenko held that heredity can be changed by husbandry a theory that had disastrous impact on soviet agriculture he was dismissed from his post as director of the soviet institute of genetics heredity knowledge and power generation reproduction evolution heredity in separate domains first syntheses heredity race and eugenics disciplining heredity heredity and molecular biology gene technology genomics postgenomics attempt at an outlook the cultural history of heredity scholars from a range of disciplines discuss the evolution of the concept of heredity from the early modern understanding of the act of generation to its later nineteenth century definition as the transmission of characteristics across generations until the middle of the eighteenth century the biological makeup of an organism was ascribed to an individual instance of generation involving conception pregnancy embryonic development parturition lactation and even astral influences and maternal mood rather than the biological transmission of traits and characteristics discussions of heredity and inheritance took place largely in the legal and political sphere in heredity produced scholars from a broad range of disciplines explore the development of the concept of heredity from the early modern period to the era of darwin and mendel the contributors examine the evolution of the concept in disparate cultural realms including law medicine and natural history and show that it did not coalesce into a more general understanding of heredity until the mid nineteenth century they consider inheritance and kinship in a legal context the classification of certain diseases as hereditary the study of botany animal and plant breeding and hybridization for desirable characteristics theories of generation and evolution and anthropology and its study of physical differences among humans particularly skin color the editors argue that only when people animals and plants became more mobile and were separated from their natural habitats through exploration colonialism and other causes could scientists distinguish between inherited and environmentally induced traits and develop a coherent theory of heredity contributors david sabsan silvia de renzi ulrike vedder carlos lópez beltrán phillip k wilson laure cartron staffan müller wille marc j ratcliff roger wood mary terrall peter mclaughlin françois duchesneau ohad parnes renato mazzolini paul white nicolas pethes stefan willer helmuth müller sievers the concept of heredity is fundamental to how we see ourselves and others it goes far beyond the obvious continuity of physical traits across generations we routinely ascribe similarities in personality intellect outlook and aptitude between family members to what s passed down in sperm and eggs the simple idea that children take after their ancestors has long been central to science and medicine and to the breeding of plants and animals it has also been used for ideological purposes to impute innate differences in character and rationality between males and females and among different ethnicities and social classes slavery colonialism and genocide the unequal treatment of women and the concentration of power and wealth in the hands of the few have been consistently rationalized in the language of heredity and natural hierarchy in this very short introduction john waller traces the diverse ideas about biological inheritance expressed by europeans and their colonial descendants during two millennia of human history he charts the changing ways in which scholars and laypersons have believed heredity to work the development of

spurious and self serving beliefs about heredity by dominant groups the recent revolution in our ability to understand the mechanics of heredity and the difficult dilemmas our species is likely to face as we gain increasing mastery over the contents of our own genomes about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable six years after charles darwin announced his theory of evolution to the world gregor mendel began studying the inheritance of traits in pea plants mendel s research led to his discovery of dominant and recessive traits and other facts of evolution which he reported in his groundbreaking 1865 paper experiments in plant hybridization his findings languished until 1902 when william bateson revived interest in the subject with this book a succinct account of mendel s heredity related discoveries bateson coined the term genetics to refer to heredity and inherited traits and his rediscovery of mendel s work forms the foundation of today s field of genetics suitable for biology and general science students at the undergraduate and graduate levels this volume is essential reading for anyone with an interest in science and genetics in addition to bateson s commentary it features two of mendel s papers including the original experiments plus a biography of mendel a detailed bibliography and indexes of subjects and authors numerous figures complement the text along with eight pages of color illustrations how genes are not the only basis of heredity and what this means for evolution human life and disease for much of the twentieth century it was assumed that genes alone mediate the transmission of biological information across generations and provide the raw material for natural selection in extended heredity leading evolutionary biologists russell bonduriansky and troy day challenge this premise drawing on the latest research they demonstrate that what happens during our lifetimes and even our grandparents and great grandparents lifetimes can influence the features of our descendants on the basis of these discoveries bonduriansky and day develop an extended concept of heredity that upends ideas about how traits can and cannot be transmitted across generations by examining the history of the gene centered view in modern biology and reassessing fundamental tenets of evolutionary theory bonduriansky and day show that nongenetic inheritance involving epigenetic environmental behavioral and cultural factors could play an important role in evolution the discovery of nongenetic inheritance therefore has major implications for key questions in evolutionary biology as well as human health extended heredity reappraises long held ideas and opens the door to a new understanding of inheritance and evolution genes unveiled exploring the secrets of hereditary science are you intrigued by the mysteries of heredity and the fascinating world of genetics dive into the captivating story of gregor mendel a remarkable figure whose groundbreaking work in biology and botany revolutionized our understanding of how traits are inherited from one generation to the next discover the life of gregor mendel a multifaceted genius gregor johann mendel also known as johann mendel was not just a scientist but also an augustinian bishop and educator his life was a unique blend of spirituality and scientific curiosity birthplace of genius born in heinzendorf now known as hynice in the czech republic in 1822 mendel s journey from a humble austrian empire village

to a renowned scientist is nothing short of inspiring a name that defined him in 1837 he chose the name gregor as his preferred name a symbol of his evolving identity and commitment to his scientific pursuits the journey of discovery a naturalist at heart mendel's deep connection with the natural world ignited his quest to unravel the secrets of heredity science meets spirituality his role as an augustinian bishop allowed him to bridge the realms of religion and reason enhancing the depth and uniqueness of his scientific work foundations of genetics mendel's most significant contribution mendelism laid the mathematical foundation for genetics he introduced the concepts of dominant and recessive traits and formulated the laws of segregation and independent assortment through meticulous pea plant experiments pioneering research his groundbreaking research set the stage for modern genetics offering profound insights into the complex mechanisms governing trait inheritance quantitative analysis mendel's innovative approach integrated quantitative analysis and statistical rigor transforming the field of biology and opening new avenues for future research the unrecognized genius a tragic ending mendel passed away in 1884 in brunn now brno czech republic without receiving full recognition for his pioneering findings legacy of progress it took subsequent generations of scientists to build upon mendel's foundation and unlock the intricacies of genetics driving the field into new frontiers a harmonious coexistence scientific investigation and spiritual commitment mendel's life exemplifies the harmony between scientific exploration spiritual dedication and intellectual curiosity enduring legacy his meticulous investigations and mathematical discoveries illuminated the fundamental principles of heredity laying the enduring foundation for the emerging field of genetics genes unveiled offers a captivating journey through the life and work of gregor mendel a visionary scientist whose legacy continues to shape our understanding of the intricate dynamics of life delve into this remarkable story and unlock the secrets of hereditary science this book discusses the nature nurture debate as it relates to human intelligence this discussion of the relationship of marriage to disease reflects the popular thinking regarding heredity and eugenics at the end of the 19th century what role does heredity play in the transmission of illnesses and genetic disorders samuel alexander kenny strahan tackles this complex question in his groundbreaking study which explores the intersection of biology psychology and sociology a pioneering work in the field of medical genetics this book remains a vital resource for medical professionals genetic counselors and students of human health this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant genetics eugenics and euthanasia genetic disease patterns of heredity dna genes this scarce antiquarian book is a facsimile reprint of the original due to its age it may contain imperfections such as marks notations marginalia and flawed pages because we believe this work is culturally important we have made it available as part of our commitment for

protecting preserving and promoting the world's literature in affordable high quality modern editions that are true to the original work if not for the work of his half cousin Francis Galton Charles Darwin's evolutionary theory might have met a somewhat different fate in particular with no direct evidence of natural selection and no convincing theory of heredity to explain it Darwin needed a mathematical explanation of variability and heredity Galton's work in biometry the application of statistical methods to the biological sciences laid the foundations for precisely that this book offers readers a compelling portrait of Galton as the father of biometry tracing the development of his ideas and his accomplishments and placing them in their scientific context though Michael Bulmer introduces readers to the curious facts of Galton's life as an explorer as a polymath and member of the Victorian intellectual aristocracy and as a proponent of eugenics his chief concern is with Galton's pioneering studies of heredity in the course of which he invented the statistical tools of regression and correlation Bulmer describes Galton's early ambitions and experiments his investigations of problems of evolutionary importance such as the evolution of gregariousness and the function of sex and his movement from the development of a physiological theory to a purely statistical theory of heredity based on the properties of the normal distribution this work culminating in the law of ancestral heredity also put Galton at the heart of the bitter conflict between the Ancestralists and the Mendelians after the rediscovery of Mendelism in 1900 a graceful writer and an expert biometrician Bulmer details the eventual triumph of biometrical methods in the history of quantitative genetics based on Mendelian principles which underpins our understanding of evolution today this volume reports on a study of 850 pairs of twins who were tested to determine the influence of heredity and environment on individual differences in personality ability and interests it presents the background research design and procedures of the study a complete tabulation of the test results and the authors extensive analysis of their findings based on one of the largest studies of twin behavior conducted in the twentieth century the book challenges a number of traditional beliefs about genetic and environmental contributions to personality development the subjects were chosen from participants in the National Merit Scholarship Qualifying Test of 1962 and were mailed a battery of personality and interest questionnaires in addition parents of the twins were sent questionnaires asking about the twins early experiences a similar sample of nontwin students who had taken the merit exam provided a comparison group the questions investigated included how twins are similar to or different from nontwins how identical twins are similar to or different from fraternal twins how the personalities and interests of twins reflect genetic factors how the personalities and interests of twins reflect early environmental factors and what implications these questions have for the general issue of how heredity and environment influence the development of psychological characteristics in attempting to answer these questions the authors shed light on the importance of both genes and environment and form the basis for different approaches in behavior genetic research explores the political forces underlying shifts in thinking about the respective influence of heredity and environment in shaping human behavior and the feasibility and morality of eugenics many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive we are republishing these

classic works in affordable high quality modern editions using the original text and artwork gregor mendel first began studying inheritance in pea plants in 1856 while darwin may have convinced the scientific community that evolution occurred mendel discovered some of the rules for this process by breeding hybrid plants together he was able to determine that there were dominant and recessive traits and these traits would appear with a predictable and particular frequency in a given set of offspring mendel s principles of heredity is the 1913 translation with added commentary of mendel s original work by british scientist william bateson 1861 1926 who coined the term genetics to refer to heredity and inherited traits anyone with an interest in science and genetics will find a wealth of information about one of the most revolutionary insights in modern science this scarce antiquarian book is a facsimile reprint of the original due to its age it may contain imperfections such as marks notations marginalia and flawed pages because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to the original work william ernest castle was a pioneer in the field of genetics and this book provides a comprehensive overview of his work on heredity and race improvement castle covers topics such as the laws of inheritance discovered by mendel and galton the role of selection in determining genetic traits and the potential applications of genetics to human society whether you are a geneticist a social scientist or simply interested in the history of science this book is an essential read this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant an accessible and comprehensive overview of the principles of heredity and genetics the author a professor of biology uses clear and concise language to explain complex biological concepts making this book an ideal resource for students and educators this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant mendel s principles of heredity a defence by gregor mendel william bateson published by good press good press publishes a wide range of titles that encompasses every genre from well known classics literary fiction and non fiction to forgotten or yet undiscovered gems of world literature we issue the books that need to be read each good press edition has been meticulously edited and formatted to boost readability for all e readers and devices our goal is to produce ebooks that are user friendly and accessible to

everyone in a high quality digital format a straightforward guide to human heredity and genetic traits the family genetic sourcebook if biology is destiny then we owe it to ourselves and our families to learn all we can about the genetic mechanisms that shape our lives enhanced by photographs line drawings charts and tables the family genetic sourcebook gives you quick easy understanding of the principles of heredity and genetic traits presented in concise accessible language a comprehensive catalog of genetic traits lists more than 100 genetic traits including blood type balding right or left handedness hair color and disorders including down s syndrome diabetes heart disease hemophilia sickle cell anemia alzheimer s disease and alcoholism each entry in the catalog offers a brief description of the trait or disorder and an explanation of its inheritance there are also instructions on constructing your own family genetic tree the family genetic sourcebook also offers a succinct introduction to the principles of heredity with discussion of the history of genetics how genetic traits are inherited genetic counseling the treatment of genetic disorders and more family members couples planning families and health care professionals and counselors will find this nontechnical yet comprehensive guide to genetics to be an invaluable resource in understanding the relationship between heredity ourselves and our families a rich and wide ranging philosophical interpretation of the history of theoretical darwinism whatever your opinion of intelligent design you ll find stove s criticism of what he calls darwinism difficult to stop reading stove s blistering attack on richard dawkins selfish genes and memes is unparalleled and unrelenting a discussion of spiders who mimic bird droppings is alone worth the price of the book darwinian fairytales should be read and pondered by anyone interested in sociobiology the origin of altruism and the awesome process of evolution martin gardner author of did adam and eve have navels debunking pseudoscience shortlisted for the baillie gifford prize for non fiction 2018she has her mother s laugh presents a profoundly original perspective on what we pass along from generation to generation charles darwin played a crucial part in turning heredity into a scientific question and yet he failed spectacularly to answer it the birth of genetics in the early 1900s seemed to do precisely that gradually people translated their old notions about heredity into a language of genes as the technology for studying genes became cheaper millions of people ordered genetic tests to link themselves to missing parents to distant ancestors to ethnic identities but zimmer writes each of us carries an amalgam of fragments of dna stitched together from some of our many ancestors each piece has its own ancestry traveling a different path back through human history a particular fragment may sometimes be cause for worry but most of our dna influences who we are our appearance our height our penchants in inconceivably subtle ways heredity isn t just about genes that pass from parent to child heredity continues within our own bodies as a single cell gives rise to trillions of cells that make up our bodies we say we inherit genes from our ancestors using a word that once referred to kingdoms and estates but we inherit other things that matter as much or more to our lives from microbes to technologies we use to make life more comfortable we need a new definition of what heredity is and through carl zimmer s lucid exposition and storytelling this resounding tour de force delivers it weaving together historical and current scientific research his own experience with his two daughters and the kind of original reporting expected of one of the world s best science journalists zimmer

ultimately unpacks urgent bioethical quandaries arising from new biomedical technologies but also long standing presumptions about who we really are and what we can pass on to future generations the journal discusses articles on gene action regulation and transmission in both plant and animal species including the genetic aspects of botany cytogenetics and evolution zoology and molecular and developmental biology excerpt from an introduction to heredity and genetics a study of the modern biological laws and theories relating to animal plant breeding the writer lays no claim to originality except it may be in the presentation of the topics he has had little opportunity for experimentation but for many years his lot has been cast where breeding experiments have been carried on and important results secured about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Heredity Explored 2016-07-29 investigations of how the understanding of heredity developed in scientific medical agro industrial and political contexts of the late nineteenth and early twentieth centuries this book examines the wide range of scientific and social arenas in which the concept of inheritance gained relevance in the late nineteenth and early twentieth centuries although genetics emerged as a scientific discipline during this period the idea of inheritance also played a role in a variety of medical agricultural industrial and political contexts the book which follows an earlier collection heredity produced covering the period 1500 to 1870 addresses heredity in national debates over identity kinship and reproduction biopolitical conceptions of heredity degeneration and gender agro industrial contexts for newly emerging genetic rationality heredity and medical research and the genealogical constructs and experimental systems of genetics that turned heredity into a representable and manipulable object taken together the essays in heredity explored show that a history of heredity includes much more than the history of genetics and that knowledge of heredity was always more than the knowledge formulated as mendelism it was the broader public discourse of heredity in all its contexts that made modern genetics possible contributors caroline arni christophe bonneuil christina brandt luis campos jean paul gaudillière bernd gausemeier jean gayon veronika lipphardt ilana löwy j andrew mendelsohn staffan müller wille diane b paul theodore m porter alain pottage hans jörg rheinberger marsha l richmond helga satzinger judy johns schloegel alexander von schwerin hamish g spencer ulrike vedder

Heredity 1964 the material basis of heredity dna the genetic material genes and biochemical reactions genes and enzymes genes in action the molecular structure of a gene genes and development genetic mechanisms genes and mand heredity and hiroshima

Introduction to Genetics 2014-06-28 introduction to genetics science of heredity presents a linear programmed text about hereditary and genetics this book discusses a variety of topics related to heredity and genetics including chromosomes genes mendelism mitosis and meiosis organized into six chapters this book begins with an overview of some of the experiments that first provide an understanding of heredity and laid the foundation of the science of genetics this text then provides detailed information about the cell and explains how the essential parts of it reproduce and divide other chapters consider how the chromosome theory can explain not only the facts of mendelism but also the many complications that arise in genetics this book discusses as well the problems that can happen during the process of mitosis and meiosis the final chapter deals with the practical problems that confront the plant breeder this book is a valuable resource for teachers and students of biology

Heredity and Its Variability 2001-12 the classic of stalinist aberrant genetic theory horticulturist lysenko rejected orthodox genetics in favor of the theories of those of the russian horticulturist i v michurin d 1935 among his theories were that wheat raised under certain conditions produce seeds of rye and that theoretical biology must be fused with soviet agricultural practice he was the total autocrat of soviet biology from 1948 through 1953 and believed that through inherited characteristics stalinism would create a new man lysenko held that heredity can be changed by husbandry a theory that had disastrous impact on soviet agriculture he was

dismissed from his post as director of the soviet institute of genetics

A Cultural History of Heredity 2012-06-26 heredity knowledge and power generation reproduction evolution heredity in separate domains first syntheses heredity race and eugenics disciplining heredity heredity and molecular biology gene technology genomics postgenomics attempt at an outlook

Heredity Produced 2007 the cultural history of heredity scholars from a range of disciplines discuss the evolution of the concept of heredity from the early modern understanding of the act of generation to its later nineteenth century definition as the transmission of characteristics across generations until the middle of the eighteenth century the biological makeup of an organism was ascribed to an individual instance of generation involving conception pregnancy embryonic development parturition lactation and even astral influences and maternal mood rather than the biological transmission of traits and characteristics discussions of heredity and inheritance took place largely in the legal and political sphere in heredity produced scholars from a broad range of disciplines explore the development of the concept of heredity from the early modern period to the era of darwin and mendel the contributors examine the evolution of the concept in disparate cultural realms including law medicine and natural history and show that it did not coalesce into a more general understanding of heredity until the mid nineteenth century they consider inheritance and kinship in a legal context the classification of certain diseases as hereditary the study of botany animal and plant breeding and hybridization for desirable characteristics theories of generation and evolution and anthropology and its study of physical differences among humans particularly skin color the editors argue that only when people animals and plants became more mobile and were separated from their natural habitats through exploration colonialism and other causes could scientists distinguish between inherited and environmentally induced traits and develop a coherent theory of heredity contributors david sabsan silvia de renzi ulrike vedder carlos lópez beltrán phillip k wilson laure cartron staffan müller wille marc j ratcliff roger wood mary terrall peter mclaughlin françois duchesneau ohad parnes renato mazzolini paul white nicolas pethes stefan willer helmuth müller sievers

Heredity: A Very Short Introduction 2017-08-17 the concept of heredity is fundamental to how we see ourselves and others it goes far beyond the obvious continuity of physical traits across generations we routinely ascribe similarities in personality intellect outlook and aptitude between family members to what is passed down in sperm and eggs the simple idea that children take after their ancestors has long been central to science and medicine and to the breeding of plants and animals it has also been used for ideological purposes to impute innate differences in character and rationality between males and females and among different ethnicities and social classes slavery colonialism and genocide the unequal treatment of women and the concentration of power and wealth in the hands of the few have been consistently rationalized in the language of heredity and natural hierarchy in this very short introduction john waller traces the diverse ideas about biological inheritance expressed by europeans and their colonial descendants during two millennia of human history he charts the changing ways in which scholars and laypersons have believed heredity to work the development of spurious and self serving beliefs about heredity by dominant groups the recent

revolution in our ability to understand the mechanics of heredity and the difficult dilemmas our species is likely to face as we gain increasing mastery over the contents of our own genomes about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Mendel's Principles of Heredity 2013-03-21 six years after charles darwin announced his theory of evolution to the world gregor mendel began studying the inheritance of traits in pea plants mendel s research led to his discovery of dominant and recessive traits and other facts of evolution which he reported in his groundbreaking 1865 paper experiments in plant hybridization his findings languished until 1902 when william bateson revived interest in the subject with this book a succinct account of mendel s heredity related discoveries bateson coined the term genetics to refer to heredity and inherited traits and his rediscovery of mendel s work forms the foundation of today s field of genetics suitable for biology and general science students at the undergraduate and graduate levels this volume is essential reading for anyone with an interest in science and genetics in addition to bateson s commentary it features two of mendel s papers including the original experiments plus a biography of mendel a detailed bibliography and indexes of subjects and authors numerous figures complement the text along with eight pages of color illustrations

Extended Heredity 2018-04-10 how genes are not the only basis of heredity and what this means for evolution human life and disease for much of the twentieth century it was assumed that genes alone mediate the transmission of biological information across generations and provide the raw material for natural selection in extended heredity leading evolutionary biologists russell bonduriansky and troy day challenge this premise drawing on the latest research they demonstrate that what happens during our lifetimes and even our grandparents and great grandparents lifetimes can influence the features of our descendants on the basis of these discoveries bonduriansky and day develop an extended concept of heredity that upends ideas about how traits can and cannot be transmitted across generations by examining the history of the gene centered view in modern biology and reassessing fundamental tenets of evolutionary theory bonduriansky and day show that nongenetic inheritance involving epigenetic environmental behavioral and cultural factors could play an important role in evolution the discovery of nongenetic inheritance therefore has major implications for key questions in evolutionary biology as well as human health extended heredity reappraises long held ideas and opens the door to a new understanding of inheritance and evolution

Genes Unveiled 2023-10-12 genes unveiled exploring the secrets of hereditary science are you intrigued by the mysteries of heredity and the fascinating world of genetics dive into the captivating story of gregor mendel a remarkable figure whose groundbreaking work in biology and botany revolutionized our understanding of how traits are inherited from one generation to the next discover the life of gregor mendel a multifaceted genius gregor johann mendel also known as johann mendel was not just a scientist but also an augustinian bishop and educator his life was a unique blend of spirituality and scientific curiosity birthplace of genius born in

heinzendorf now known as hynice in the czech republic in 1822 mendel's journey from a humble austrian empire village to a renowned scientist is nothing short of inspiring a name that defined him in 1837 he chose the name gregor as his preferred name a symbol of his evolving identity and commitment to his scientific pursuits the journey of discovery a naturalist at heart mendel's deep connection with the natural world ignited his quest to unravel the secrets of heredity science meets spirituality his role as an augustinian bishop allowed him to bridge the realms of religion and reason enhancing the depth and uniqueness of his scientific work foundations of genetics mendel's most significant contribution mendelism laid the mathematical foundation for genetics he introduced the concepts of dominant and recessive traits and formulated the laws of segregation and independent assortment through meticulous pea plant experiments pioneering research his groundbreaking research set the stage for modern genetics offering profound insights into the complex mechanisms governing trait inheritance quantitative analysis mendel's innovative approach integrated quantitative analysis and statistical rigor transforming the field of biology and opening new avenues for future research the unrecognized genius a tragic ending mendel passed away in 1884 in brunn now brno czech republic without receiving full recognition for his pioneering findings legacy of progress it took subsequent generations of scientists to build upon mendel's foundation and unlock the intricacies of genetics driving the field into new frontiers a harmonious coexistence scientific investigation and spiritual commitment mendel's life exemplifies the harmony between scientific exploration spiritual dedication and intellectual curiosity enduring legacy his meticulous investigations and mathematical discoveries illuminated the fundamental principles of heredity laying the enduring foundation for the emerging field of genetics genes unveiled offers a captivating journey through the life and work of gregor mendel a visionary scientist whose legacy continues to shape our understanding of the intricate dynamics of life delve into this remarkable story and unlock the secrets of hereditary science

Intelligence, Heredity and Environment 1997-01-28 this book discusses the nature nurture debate as it relates to human intelligence

Twins, a Study of Heredity and Environment 2015 this discussion of the relationship of marriage to disease reflects the popular thinking regarding heredity and eugenics at the end of the 19th century

Marriage and Disease 1892 what role does heredity play in the transmission of illnesses and genetic disorders samuel alexander kenny strahan tackles this complex question in his groundbreaking study which explores the intersection of biology psychology and sociology a pioneering work in the field of medical genetics this book remains a vital resource for medical professionals genetic counselors and students of human health this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping

this knowledge alive and relevant

Marriage and Disease 2023-07-18 genetics eugenics and euthanasia genetic disease patterns of heredity dna genes

Heredity and Human Diversity 1989-05-18 this scarce antiquarian book is a facsimile reprint of the original due to its age it may contain imperfections such as marks notations marginalia and flawed pages because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to the original work

Control of Heredity: A Study of the Genesis of Evolution and Degeneracy (1903) 2008-06-01 if not for the work of his half cousin francis galton charles darwin s evolutionary theory might have met a somewhat different fate in particular with no direct evidence of natural selection and no convincing theory of heredity to explain it darwin needed a mathematical explanation of variability and heredity galton s work in biometry the application of statistical methods to the biological sciences laid the foundations for precisely that this book offers readers a compelling portrait of galton as the father of biometry tracing the development of his ideas and his accomplishments and placing them in their scientific context though michael bulmer introduces readers to the curious facts of galton s life as an explorer as a polymath and member of the victorian intellectual aristocracy and as a proponent of eugenics his chief concern is with galton s pioneering studies of heredity in the course of which he invented the statistical tools of regression and correlation bulmer describes galton s early ambitions and experiments his investigations of problems of evolutionary importance such as the evolution of gregariousness and the function of sex and his movement from the development of a physiological theory to a purely statistical theory of heredity based on the properties of the normal distribution this work culminating in the law of ancestral heredity also put galton at the heart of the bitter conflict between the ancestrians and the mendelians after the rediscovery of mendelism in 1900 a graceful writer and an expert biometrician bulmer details the eventual triumph of biometrical methods in the history of quantitative genetics based on mendelian principles which underpins our understanding of evolution today

Francis Galton 2004-12-01 this volume reports on a study of 850 pairs of twins who were tested to determine the influence of heredity and environment on individual differences in personality ability and interests it presents the background research design and procedures of the study a complete tabulation of the test results and the authors extensive analysis of their findings based on one of the largest studies of twin behavior conducted in the twentieth century the book challenges a number of traditional beliefs about genetic and environmental contributions to personality development the subjects were chosen from participants in the national merit scholarship qualifying test of 1962 and were mailed a battery of personality and interest questionnaires in addition parents of the twins were sent questionnaires asking about the twins early experiences a similar sample of nontwin students who had taken the merit exam provided a comparison group the questions investigated included how twins are similar to or different from nontwins how identical twins are similar to or different from fraternal twins how the personalities and interests of twins reflect genetic factors how the

personalities and interests of twins reflect early environmental factors and what implications these questions have for the general issue of how heredity and environment influence the development of psychological characteristics in attempting to answer these questions the authors shed light on the importance of both genes and environment and form the basis for different approaches in behavior genetic research

Heredity, Environment, and Personality 2014-11-06 explores the political forces underlying shifts in thinking about the respective influence of heredity and environment in shaping human behavior and the feasibility and morality of eugenics

The Politics of Heredity 1998-01-01 many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive we are republishing these classic works in affordable high quality modern editions using the original text and artwork

Twins, a Study of Heredity and Environment 1982 gregor mendel first began studying inheritance in pea plants in 1856 while darwin may have convinced the scientific community that evolution occurred mendel discovered some of the rules for this process by breeding hybrid plants together he was able to determine that there were dominant and recessive traits and these traits would appear with a predictable and particular frequency in a given set of offspring mendel s principles of heredity is the 1913 translation with added commentary of mendel s original work by british scientist william bateson 1861 1926 who coined the term genetics to refer to heredity and inherited traits anyone with an interest in science and genetics will find a wealth of information about one of the most revolutionary insights in modern science

Marriage and Disease - A Study of Heredity and the More Important Family Degenerations 2010-03 this scarce antiquarian book is a facsimile reprint of the original due to its age it may contain imperfections such as marks notations marginalia and flawed pages because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to the original work

Mendel's Principles of Heredity 2007-11-01 william ernest castle was a pioneer in the field of genetics and this book provides a comprehensive overview of his work on heredity and race improvement castle covers topics such as the laws of inheritance discovered by mendel and galton the role of selection in determining genetic traits and the potential applications of genetics to human society whether you are a geneticist a social scientist or simply interested in the history of science this book is an essential read this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Principles of Genetics and Eugenics 1935 an accessible and comprehensive

overview of the principles of heredity and genetics the author a professor of biology uses clear and concise language to explain complex biological concepts making this book an ideal resource for students and educators this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Heredity and Sex 1913 mendel s principles of heredity a defence by gregor mendel william bateson published by good press good press publishes a wide range of titles that encompasses every genre from well known classics literary fiction and non fiction to forgotten or yet undiscovered gems of world literature we issue the books that need to be read each good press edition has been meticulously edited and formatted to boost readability for all e readers and devices our goal is to produce ebooks that are user friendly and accessible to everyone in a high quality digital format

Modern Conceptions of Heredity and Genetic Studies at the Scripps Institution 1917 a straightforward guide to human heredity and genetic traits the family genetic sourcebook if biology is destiny then we owe it to ourselves and our families to learn all we can about the genetic mechanisms that shape our lives enhanced by photographs line drawings charts and tables the family genetic sourcebook gives you quick easy understanding of the principles of heredity and genetic traits presented in concise accessible language a comprehensive catalog of genetic traits lists more than 100 genetic traits including blood type balding right or left handedness hair color and disorders including down s syndrome diabetes heart disease hemophilia sickle cell anemia alzheimer s disease and alcoholism each entry in the catalog offers a brief description of the trait or disorder and an explanation of its inheritance there are also instructions on constructing your own family genetic tree the family genetic sourcebook also offers a succinct introduction to the principles of heredity with discussion of the history of genetics how genetic traits are inherited genetic counseling the treatment of genetic disorders and more family members couples planning families and health care professionals and counselors will find this nontechnical yet comprehensive guide to genetics to be an invaluable resource in understanding the relationship between heredity ourselves and our families

The Law of Heredity 2008-06 a rich and wide ranging philosophical interpretation of the history of theoretical darwinism

The Laws Of Heredity Of Galton And Mendel 2023-07-18 whatever your opinion of intelligent design you ll find stove s criticism of what he calls darwinism difficult to stop reading stove s blistering attack on richard dawkins selfish genes and memes is unparalleled and unrelenting a discussion of spiders who mimic bird droppings is alone worth the price of the book darwinian fairytales should be read and pondered by anyone interested in sociobiology the origin of altruism and the awesome process of evolution martin gardner author of did adam and eve have navels

debunking pseudoscience

Heredity and Society 1912 shortlisted for the baillie gifford prize for non fiction 2018 she has her mother's laugh presents a profoundly original perspective on what we pass along from generation to generation charles darwin played a crucial part in turning heredity into a scientific question and yet he failed spectacularly to answer it the birth of genetics in the early 1900s seemed to do precisely that gradually people translated their old notions about heredity into a language of genes as the technology for studying genes became cheaper millions of people ordered genetic tests to link themselves to missing parents to distant ancestors to ethnic identities but zimmer writes each of us carries an amalgam of fragments of dna stitched together from some of our many ancestors each piece has its own ancestry traveling a different path back through human history a particular fragment may sometimes be cause for worry but most of our dna influences who we are our appearance our height our penchants in inconceivably subtle ways heredity isn't just about genes that pass from parent to child heredity continues within our own bodies as a single cell gives rise to trillions of cells that make up our bodies we say we inherit genes from our ancestors using a word that once referred to kingdoms and estates but we inherit other things that matter as much or more to our lives from microbes to technologies we use to make life more comfortable we need a new definition of what heredity is and through carl zimmer's lucid exposition and storytelling this resounding tour de force delivers it weaving together historical and current scientific research his own experience with his two daughters and the kind of original reporting expected of one of the world's best science journalists zimmer ultimately unpacks urgent bioethical quandaries arising from new biomedical technologies but also long standing presumptions about who we really are and what we can pass on to future generations

An Introduction to Heredity and Genetics; a Study of the Modern Biological Laws and Theories Relating Animal & Plant Breeding 2023-07-18 the journal discusses articles on gene action regulation and transmission in both plant and animal species including the genetic aspects of botany cytogenetics and evolution zoology and molecular and developmental biology

Heredity and Christian Problems 1895 excerpt from an introduction to heredity and genetics a study of the modern biological laws and theories relating to animal plant breeding the writer lays no claim to originality except it may be in the presentation of the topics he has had little opportunity for experimentation but for many years his lot has been cast where breeding experiments have been carried on and important results secured about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

The Mechanism of Mendelian Heredity 1972

Heredity and Variation 1934

Mendel's principles of heredity: A defence 2023-07-13

The Family Genetic Sourcebook 1991-01-16

Darwinism's Struggle for Survival 1998-08-06

The Genetics of Schizophrenia 2013-07

Darwinian Fairytales 2006-02-01

She Has Her Mother's Laugh 2019-06-11

The Journal of Heredity 1961

An Introduction to Heredity and Genetics 2018-03-21

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