



LIFE SCIENCES Grade 12

Practical Investigation 1

Date: 18 February 2014

Name: _____

Total	
	30

TO INVESTIGATE THE PROCESS OF MEIOSIS

Organisms produced by sexual reproduction are truly new organisms. They have different sets of genes from their parents. The gametes formed by meiosis are just for the purpose of sexual reproduction. Gametes cannot grow into another organism until they fuse with another gamete to form a zygote. When the zygote forms, it is genetically unique.

Genetic variation allows a species to have a better chance of adapting to and surviving sudden changes in the environment. No two individuals in a sexually reproducing population are exactly the same. Meiosis during sexual reproduction therefore ensures maximum genetic variation and improved the chances of a species' survival.

Source: Life Sciences Explained Grade 12

1. Study the electron micrographs showing various phases of meiosis



- 1.1 State the places where this process will take place in human females .

(1)

Life Science Pgrd12 Sep2014

Joanna Radin



Life Science Pgrd12 Sep2014:

Life Sciences Research to Product Development Pronobesh Chattopadhyay, Danswring Goyary, 2024-03-07 The present volume Life Sciences Research to Product Development Regulatory Requirement Transforming Volume 1 discusses the procedures of drug approval and regulatory requirements that must be met according to the United States Food and Drug Administration US FDA the European Medical Agency EMA and the Central Drug Standard Control Organization CDSCO Many researchers either abandon their work in the middle of the process or find it difficult to follow the rules Therefore it is not surprising that any biological researcher associated with drug development should have a thorough understanding of regulatory requirements This volume incorporates all the requisite regulatory norms and provides the latest information on the mandated regulation of herbal medicines The book covers other obligatory regulatory requirements such as The legal method and practice of herbal drug products the roles of Ayurvedic medicines and the process to obtain regulatory approval Drug molecules not included in Department of Ayurveda Yoga Naturopathy Unani Siddha and homeopathy AYUSH but referred to as phytopharmaceuticals are also considered new drugs The boundary line between food and herbal pharmaceuticals is discussed as well as pre clinical toxicity testing clinical trials and stability studies in accordance with the rules The chapter on regulatory implications for the approval process in this book will be the most useful resource for researchers and students particularly those with backgrounds in pharma forensic medicine or regulatory affairs or those who aspire to succeed in drug research Additionally the information contained in this volume of the book could be of great interest to researchers working in the herbal drug industry Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives Singapore Hawker Classics Unveiled Temasek Polytechnic, 2015-07-15 Produced as a celebration of Singapore's renowned culinary heritage Singapore Hawker Classics Unveiled tells you everything you ever needed to know and more about 25 of our favourite dishes The 25 delicious recipes featured will allow you to recreate your favourite classic hawker treats at home and inspire you to look at these familiar dishes in a new light each dish includes its traditional presentation together with an additional interpretation with a modern

twist Moreover every dish is covered in great detail including information on its heritage its aroma taste and texture its nutritional value as well as clear step by step instructions and photographs

Social Sciences and Interdisciplinary Behavior Ford Lumban Gaol,Fonny Hutagalung,Nailya Bagautdinova,Lenar Safiullin,2016-09-19 Social Sciences and Interdisciplinary Behavior contains papers that were originally presented at the 4th International Congress on Interdisciplinary Behavior and Social Science 2015 ICIBSoS 2015 held 22 23 October 2015 at The Institute of Management Economics and Finance of the Kazan Federal University Kazan Russia and 7 8 November 2015 in Arya Duta Hotel Jakarta Indonesia The contributions deal with various interdisciplinary research topics particularly in the fields of social sciences education economics and arts The papers focus especially on such topics as language cultural studies economics behavior studies political sciences media and communication psychology and human development

Global guidance framework for the responsible use of the life sciences ,2022-09-13 The framework aims to provide global perspectives on principles tools and mechanisms to support Member States and relevant stakeholders to mitigate and prevent biorisks and govern dual use research The framework adopts the One health approach and focuses on the role that responsible life sciences research can play in preventing and mitigating risks caused by accidents inadvertent or deliberate misuse with the intention to cause harm to humans nonhuman animals plants and agriculture and the environment The framework is primarily intended for those who have responsibilities in the governance of biorisks such as policy makers and regulators in charge of developing national policies to harness the potential benefits of the life sciences while constraining their risks The framework is also directed towards scientists and research institutions educators trainers project management staff funding bodies publishers editors the private sector and all relevant stakeholders that are part of the research life cycle The governance of biorisks is an issue that should engage all countries although countries will have different contexts needs and starting points Mitigating these risks will require individual and collective actions among different stakeholders and disciplines Mitigating biorisks and governing dual use research is a shared responsibility

Swinging the Mandate Dheeraj Sharma,Narayan Singh Rao,2016-09-05 Is Narendra Modi one of the most successful brands of our times Was the historic AAP victory in Delhi actually a fluke How do Indians vote and what influences them *Swinging the Mandate* is a first of its kind book on political campaign management in India Prof Dheeraj Sharma chair of marketing at IIM Ahmedabad and Narayan Singh Rao discuss how sophisticated campaign management strategies have been utilized in recent elections in India The book offers excellent case studies from the historic general elections of 2014 and the landslide victory of AAP in the 2015 Delhi elections It also gives examples of some hard fought elections in Europe and North America to demonstrate increasing use of principles of marketing and management in campaign management Armed with comprehensive research and interesting case studies this accessible book reveals how star campaigners are built what the marketing mix for a political party looks like and how elections are won in India

Manifest Your Magnificence Joan E. Walmsley,2015-10-22 This book describes the synthesis

currently occurring between science and metaphysics that reveals the energetic nature of all life and the amazing truth behind physical reality It discusses the relationship between energy and consciousness and how management of your own energy signature can change your reality and even your physical body It demonstrates how you can connect to the immense energy available at the higher frequencies of your own being to manifest abundance love and peace for yourself your family your business your community and your world This book brings together energetic science and universal spiritual intelligence in a way that is understandable and practical If you are ready to take responsibility for your life and manifest your own magnificence this is for you Susan T Howson MA CPCC PCC CHBC founder of Magnificent Creations Limitee and Kids Coaching Connection A very current description of where science is in relation to the deeper wisdom of spiritual writings and teachings It is a book for the 21st century Catherine Nelson MA PhD founder of Rocky Mountain Pathwork The practical exercises give us a chance to feel the energy surging through us and around us I hope many people get a chance to read this David Newby MBA director of InTouch Insight Systems Exceptionally well written organized and presented Manifest Your Magnificence The Energetics of Being is an inherently thoughtful and thought provoking read that might well provide a life changing experience and is very highly recommended for both community and academic library collections It should be noted for personal self help self improvement reading lists that Manifest Your Magnificence is also available in a paperback edition 9781504341035 24 99 Susan Bethany Reviewer Midwest Book Review

Perspectives William F Brown, 2016-03-06 From the first seconds Following the Big Bang to our best guesses for the fate of the universe and humanity science provides stunning new perspectives about the place of humanity in the cosmos Humans may live on one planet in one small corner of the Milky Way itself one of billions of other galaxies but Earth may be unique in one respect Earth is teeming with life one species of which through chance and natural selection developed an extraordinary brain gifted with imagination curiosity and a compulsion to understand ourselves and the universe Perspectives is a journey through deep time from the creation of the universe to the beginnings of life our human origins and later the rise of culture and religion It explores what it means to be human and where our technology could take us in the years and centuries to come www.williamfbrown.com

Feminist Geopolitics Deborah P. Dixon, 2016-04-15 What can unfold from an engagement of feminist issues concerns and practices with the geopolitical How does feminism allow for a reconfiguration of how these two elements the geo and the political are understood and related What kinds of objects can be located and put into motion What kinds of relations can be drawn between these What kinds of practice become valued And what is glossed or rendered absent in the process In this thought provoking and original contribution Deborah P Dixon cautions against the exhaustion of feminist geopolitics as a critique of both a classical and a critical geopolitics and points instead to how feminist imaginaries of Self Other and Earth allow for all manner of work to be undertaken Importantly one of the things they provide for is a reservoir of concerns thoughts and practices that can be reappropriated to flesh out what a feminist geopolitics can be While providing a

much needed sustained interjection that draws out achievements to date the book thus gestures forward to productive lines of inquiry and method Grounded via a series of globally diverse case studies that traverse time as well as space Feminist Geopolitics feels for the borders of geopolitical thought and practice by navigating four complex and corporeally aware objects of analysis namely flesh bone touch and abhorrence Food, Animals, and the Environment Christopher Schlottmann, Jeff Sebo, 2018-09-14 Food Animals and the Environment An Ethical Approach examines some of the main impacts that agriculture has on humans nonhumans and the environment as well as some of the main questions that these impacts raise for the ethics of food production consumption and activism Agriculture is having a lasting effect on this planet Some forms of agriculture are especially harmful For example industrial animal agriculture kills 100 billion animals per year consumes vast amounts of land water and energy and produces vast amounts of waste pollution and greenhouse gas emissions Other forms such as local organic and plant based food have many benefits but they also have many costs especially at scale These impacts raise difficult ethical questions What do we owe animals plants species and ecosystems What do we owe people in other nations and future generations What are the ethics of risk uncertainty and collective harm What is the meaning and value of natural food in a world reshaped by human activity What are the ethics of supporting harmful industries when less harmful alternatives are available What are the ethics of resisting harmful industries through activism advocacy and philanthropy The discussion ranges over cutting edge topics such as effective altruism abolition and regulation revolution and reform individual and structural change single issue and multi issue activism and legal and illegal activism This unique and accessible text is ideal for teachers students and anyone else interested in serious examination of one of the most complex and important moral problems of our time **Stem Cells in Regenerative Medicine** Alain A.

Vertes, Nasib Qureshi, Arnold I. Caplan, Lee E. Babiss, 2015-09-14 This book is a unique guide to emerging stem cell technologies and the opportunities for their commercialisation It provides in depth analyses of the science business legal and financing fundamentals of stem cell technologies offering a holistic assessment of this emerging and dynamic segment of the field of regenerative medicine Reviews the very latest advances in the technology and business of stem cells used for therapy research and diagnostics Identifies key challenges to the commercialisation of stem cell technology and avenues to overcome problems in the pipeline Written by an expert team with extensive experience in the business basic and applied science of stem cell research This comprehensive volume is essential reading for researchers in cell biology biotechnology regenerative medicine and tissue engineering including scientists and professionals looking to enter commercial biotechnology fields

When Life is Linear Tim Chartier, 2015-01-07 From simulating complex phenomenon on supercomputers to storing the coordinates needed in modern 3D printing data is a huge and growing part of our world A major tool to manipulate and study this data is linear algebra When Life is Linear introduces concepts of matrix algebra with an emphasis on application particularly in the fields of computer graphics and data mining Readers will learn to make an image transparent compress an

image and rotate a 3D wireframe model In data mining readers will use linear algebra to read zip codes on envelopes and encrypt sensitive information Chartier details methods behind web search utilized by such companies as Google and algorithms for sports ranking which have been applied to creating brackets for March Madness and predict outcomes in FIFA World Cup soccer The book can serve as its own resource or to supplement a course on linear algebra *Doing Global Science* InterAcademy Partnership,2016-03-01 An essential introduction to the responsible conduct of science in today s interconnected world This concise introductory guide explains the values that should inform the responsible conduct of scientific research in today s global setting Featuring accessible discussions and ample real world scenarios Doing Global Science covers proper conduct fraud and bias the researcher s responsibilities to society communication with the public and much more The book places special emphasis on the international and highly networked environment in which modern research is done presenting science as an enterprise that is being transformed by globalization interdisciplinary research projects team science and information technologies Accessibly written by an InterAcademy Partnership committee comprised of leading scientists from around the world Doing Global Science is required reading for students practitioners and anyone concerned about the responsible conduct of science today Provides practical guidance and instructions for doing scientific research in today s global setting Covers everything from responsible conduct to communication with the public Features numerous real world scenarios drawn from an array of disciplines and national contexts Focuses on issues commonly encountered in international collaborations Written by a panel of leading experts from around the world An essential guide for practicing scientists and anyone concerned about fostering research integrity *Proceedings of the 4th International Conference on Life Sciences and Biotechnology (ICOLIB 2021)* Asmoro Lelono,Muhammad Akbar Bahar,Syubanol Wathon,Kartika Senjarini,Asep Ginanjar Arip,Ramdhan Putrasetya,Beny Andika,Nadhea Ayu Sukma,2023-02-10 This is an open access book We are pleased to invite you to participate in the 4th International Conference on Life Sciences and Biotechnology Towards Sustainable Development Application of Biosciences to Improve Welfare and Quality of Life The International Conference which will be held on by The Department of Biology Faculty of Mathematics and Natural Sciences University of Jember November 15 16 2021 The 1st 2nd and 3rd ICOLIB had been successfully held in 2015 2017 and 2019 in University of Jember respectively This year s conference will be held virtually and present some outstanding speakers coming from Indonesia Germany Nederland The United States of America and South Korea **Ethics and Integrity in Health and Life Sciences Research** Zvonimir Koporc,2018-12-06 This important volume covers ethics and integrity in health and life sciences research It addresses concerns in gene editing dual use and misuse of biotechnologies big data and nutritional science in health and medicine and covers attempts at ensuring ethical practices in such fields are shared internationally *You* William B. Irvine,2018-09-07 What are you Obviously you are a person with human ancestors that can be plotted on a family tree but you have other identities as well According to evolutionary biologists you are a member of the species Homo

sapiens and as such have ancestral species that can be plotted on the tree of life According to microbiologists you are a collection of cells each of which has a cellular ancestry that goes back billions of years A geneticist though will think of you primarily as a gene replication machine and might produce a tree that reveals the history of any given gene And finally a physicist will give a rather different answer to the identity question you can best be understood as a collection of atoms each of which has a very long history Some have been around since the Big Bang and others are the result of nuclear fusion that took place within a star Not only that but most of your atoms belonged to other living things before joining you From your atoms point of view then you are just a way station on a multibillion year long journey You A Natural History offers a multidisciplinary investigation of your hyperextended family tree going all the way back to the Big Bang And while your family tree may contain surprises your hyperextended history contains some truly amazing stories As the result of learning more about who and what you are and about how you came to be here you will likely see the world around you with fresh eyes You will also become aware of all the one off events that had to take place for your existence to be possible stars had to explode the earth had to be hit 4 5 billion years ago by a planetesimal and 65 million years ago by an asteroid microbes had to engulf microbes the African savanna had to undergo climate change and of course any number of your direct ancestors had to meet and mate It is difficult on becoming aware of just how contingent your own existence is not to feel very lucky to be part of our universe

A Labor of Love, Volume 1 Anna D. Arapakos, 2024-10-01 You hold the first of two volumes of one giant love story in your hands In essence this story is about Anna Arapakos father and how she came to care for him when he was elderly this phenomenon is a universal experience all will share or witness in one capacity or another If you are interested in probing into life s hows and whys you will appreciate the information she shares in this first volume Here you ll discover the science behind Huntington s disease HD and her Greek father s life from birth until age sixty through carefully chosen family stories that bring to life historical facts that shaped his outlook and foundational experiences That way you will have a baseline to see how HD impacts and distorts certain inherent features ways and tendencies of her father You will learn about genetics neurology and critical characteristics of this rare and progressive disease and will be able to distinguish it from other neurodegenerative diseases She shares this foundational information on HD so you can appreciate how and why changes occur at every level intellectual physical psycho emotional and spiritual In A Labor of Love Vol 1 Understanding Hercules Miss Arapakos father is Hercules and the portion of the myth she shares in this volume revolves around everything in Hercules life before he undertakes the labors for which he has become so well known Here is also where she recounts her father s cultural historical background and the essentials of Huntington s disease including its features the genetic backdrop its impact on the brain and much more Then she proceeds to make apt analogies between Hercules and her father during the formative years this book stops at the point when her dad retires and his disease really kicks in

From AI to Robotics Arkapravo Bhaumik, 2018-02-28 From AI to Robotics Mobile Social and Sentient Robots is a journey into the world of agent

based robotics and it covers a number of interesting topics both in the theory and practice of the discipline. The book traces the earliest ideas for autonomous machines to the mythical lore of ancient Greece and ends the last chapter with a debate on a prophecy set in the apparent future where human beings and robots technology may merge to create superior beings the era of transhumanism. Throughout the text the work of leading researchers is presented in depth which helps to paint the socio economic picture of how robots are transforming our world and will continue to do so. This work is presented along with the influences and ideas from futurists such as Asimov, Moravec, Lem, Vinge and of course Kurzweil. The book furthers the discussion with concepts of Artificial Intelligence and how it manifests in robotic agents. Discussions across various topics are presented in the book including control paradigm, navigation software, multi robot systems, swarm robotics, robots in social roles and artificial consciousness in robots. These discussions help to provide an overall picture of current day agent based robotics and its prospects for the future. Examples of software and implementation in hardware are covered in Chapter 5 to encourage the imagination and creativity of budding robot enthusiasts. The book addresses several broad themes such as AI in theory versus applied AI for robots, concepts of anthropomorphism, embodiment and situatedness, extending theory of psychology and animal behavior to robots and the proposal that in the future AI may be the new definition of science. Behavior based robotics is covered in Chapter 2 and retells the debate between deliberative and reactive approaches. The text reiterates that the effort of modern day robotics is to replicate human like intelligence and behavior and the tools that a roboticist has at his or her disposal are open source software which is often powered by crowd sourcing. Open source meta projects such as Robot Operating System (ROS) etc are briefly discussed in Chapter 5. The ideas and themes presented in the book are supplemented with cartoons, images, schematics and a number of special sections to make the material engaging for the reader. Designed for robot enthusiasts, researchers, students or the hobbyist, this comprehensive book will entertain and inspire anyone interested in the exciting world of robots.

Life on Ice Joanna Radin, 2017-03-27 After the atomic bombing at the end of World War II, anxieties about survival in the nuclear age led scientists to begin stockpiling and freezing hundreds of thousands of blood samples from indigenous communities around the world. These samples were believed to embody potentially invaluable biological information about genetic ancestry, evolution, microbes and much more. Today they persist in freezers as part of a global tissue based infrastructure. In *Life on Ice*, Joanna Radin examines how and why these frozen blood samples shaped the practice known as biobanking. The Cold War projects Radin tracks were meant to form an enduring total archive of indigenous blood before it was altered by the polluting forces of modernity. Freezing allowed that blood to act as a time traveling resource. Radin explores the unique cultural and technical circumstances that created and gave momentum to the phenomenon of life on ice and shows how these preserved blood samples served as the building blocks for biomedicine at the dawn of the genomic age. In an era of vigorous ethical, legal and cultural debates about genetic privacy and identity, *Life on Ice* reveals the larger picture: how we got here and the promises and problems involved with finding new uses for cold

human blood samples **Google It** Newton Lee, 2016-10-23 From Google search to self driving cars to human longevity is Alphabet creating a neoteric Garden of Eden or Bentham's Panopticon Will King Solomon's challenge supersede the Turing test for artificial intelligence Can transhumanism mitigate existential threats to humankind These are some of the overarching questions in this book which explores the impact of information awareness on humanity starting from the Book of Genesis to the Royal Library of Alexandria in the 3rd century BC to the modern day of Google Search IBM Watson and Wolfram Alpha The book also covers Search Engine Optimization Google AdWords Google Maps Google Local Search and what every business leader must know about digital transformation Search is curiosity and that will never be done said Google's first female engineer and Yahoo's sixth CEO Marissa Mayer The truth is out there we just need to know how to Google it

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