



LIFE SCIENCES Grade 12

Practical Investigation 1

Date: 18 February 2014

Name: _____

Total	
	30

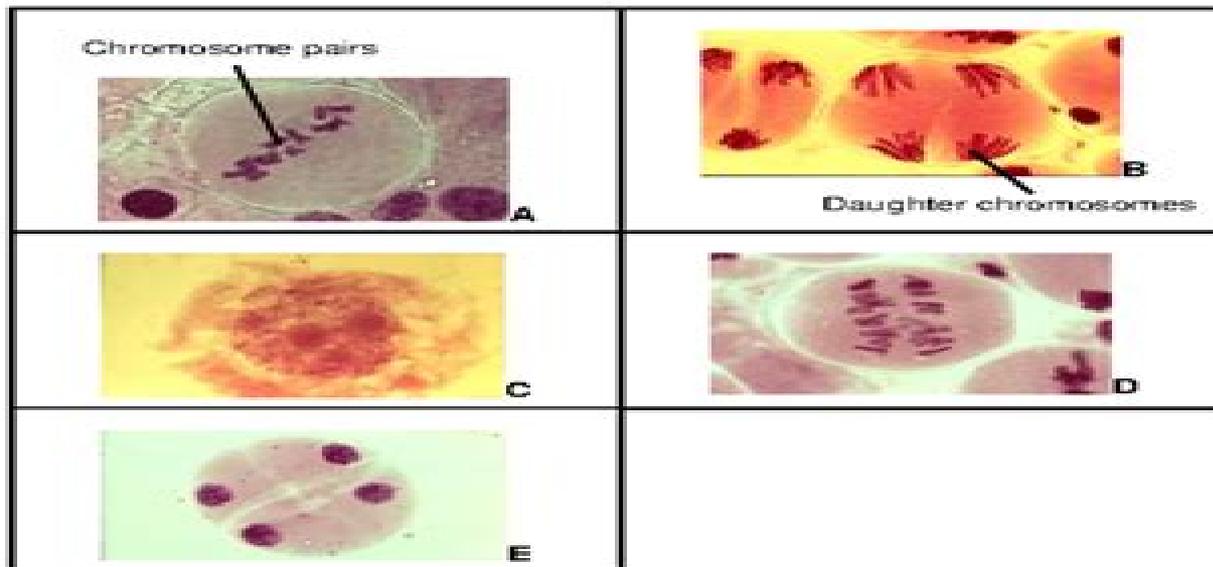
TO INVESTIGATE THE PROCESS OF MEIOSIS

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)

2014 Exemplars For Life Sciences

Albert Zeyer, Regula Kyburz-Graber



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Biological Collections National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Life Sciences, Committee on Biological Collections: Their Past, Present, and Future Contributions and Options for Sustaining Them, 2021-01-29 Biological collections are a critical part of the nation's science and innovation infrastructure and a fundamental resource for understanding the natural world. Biological collections underpin basic science discoveries as well as deepen our understanding of many challenges such as global change, biodiversity loss, sustainable food production, ecosystem conservation, and improving human health and security. They are important resources for education both in formal training for the science and technology workforce and in informal learning through schools, citizen science programs, and adult learning. However, the sustainability of biological collections is under threat. Without enhanced strategic leadership and investments in their infrastructure and growth, many biological collections could be lost. *Biological Collections: Ensuring Critical Research and Education for the 21st Century* recommends approaches for biological collections to develop long-term financial sustainability, advance digitization, recruit and support a diverse workforce, and upgrade and maintain a robust physical infrastructure in order to continue serving science and society. The aim of the report is to stimulate a national discussion regarding the goals and strategies needed to ensure that U.S. biological collections not only thrive but continue to grow throughout the 21st century and beyond.

Socio-Life Science and the COVID-19 Outbreak Makoto Yano, Fumihiko Matsuda, Anavaj Sakuntabhai, Shigeru Hirota, 2021-11-30 This open access book presents the first step towards building socio-life science, a field of science investigating humans in such a way that both social and life scientific factors are integrated. Because humans are both living and social creatures, a human action can never be understood fully without knowing both the biological traits of a person and the social scientific environments in which he exists. With this consideration, the editors of this book have initiated a research project promoting a deeper and more integrated understanding of human behavior and human health. This book aims to show what can and could be achieved through our interdisciplinary project. One important product is the newly formed three-party collaboration between Pasteur Institute, Kyoto University, and the Research Institute of Economy, Trade, and Industry. Covering many different fields including medicine, epidemiology, anthropology, economics, sociology, demography, geography, and policy, researchers in these institutes and many others present their studies on the COVID-19 pandemic. Although based on different methodologies, the studies show the importance of behavioral change and governmental policy in the fight against a huge pandemic. The book explains the unique genome cohort panel data that the project builds to study social and life scientific aspects of humans.

Research Handbook on Patent Law and Theory Toshiko Takenaka, 2019 This significantly updated second edition of the *Research Handbook on Patent Law* provides comprehensive coverage of new research for patent protection in three major jurisdictions: the United States, Europe, and Japan.

Fluorescence Microscopy in Life Sciences Juan Carlos Stockert, Alfonso Blazquez-Castro, 2017-12-15 Fluorescence

Microscopy is a precise and widely employed technique in many research and clinical areas nowadays Fluorescence Microscopy In Life Sciences introduces readers to both the fundamentals and the applications of fluorescence microscopy in the biomedical field as well as biological research Readers will learn about physical and chemical mechanisms giving rise to the phenomenon of luminescence and fluorescence in a comprehensive way Also the different processes that modulate fluorescence efficiency and fluorescence features are explored and explained

Multinational Management Rien Segers,2016-01-29 This casebook demonstrates that the future of global business lies in how well the multinational landscape is charted and how the importance of Asian market leaders is deeply embedded in it It offers international management students and researchers an extensive guide to the business history strategy development and foreign market entry modes used by emerging Asian multinationals The cases focus on well known companies such as Lenovo Alibaba Infosys Huawei Panasonic and Rakuten These companies all of which generate huge revenues in their own countries e g in China India South Korea Taiwan Vietnam are now becoming increasingly sophisticated and striving to become global brands while also enjoying the active support of their governments in terms of their international business Readers will learn about the current multinational landscape in Asia the management challenges and the future implications for traditional western companies seeking to retain their market share Chapters on corporate entrepreneurship human resource management and intercultural competence and current branding trends in Asia will provide a cutting edge update on international business strategy for students and practitioners alike

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

Data and Text Processing for Health and Life Sciences Francisco M. Couto,2019-06-10 This open access book is a step by step introduction on how shell scripting can help solve many of the data processing tasks that Health and Life specialists face everyday with minimal software dependencies The examples presented in the book show how simple command line tools can be used and combined to retrieve data and text from web resources to filter and mine literature and to explore the semantics encoded in biomedical ontologies To store data this book relies on open standard text file formats such as TSV CSV XML and OWL that can be open by any text editor or spreadsheet application The first two

chapters Introduction and Resources provide a brief introduction to the shell scripting and describe popular data resources in Health and Life Sciences The third chapter Data Retrieval starts by introducing a common data processing task that involves multiple data resources Then this chapter explains how to automate each step of that task by introducing the required commands line tools one by one The fourth chapter Text Processing shows how to filter and analyze text by using simple string matching techniques and regular expressions The last chapter Semantic Processing shows how XPath queries and shell scripting is able to process complex data such as the graphs used to specify ontologies Besides being almost immutable for more than four decades and being available in most of our personal computers shell scripting is relatively easy to learn by Health and Life specialists as a sequence of independent commands Comprehending them is like conducting a new laboratory protocol by testing and understanding its procedural steps and variables and combining their intermediate results Thus this book is particularly relevant to Health and Life specialists or students that want to easily learn how to process data and text and which in return may facilitate and inspire them to acquire deeper bioinformatics skills in the future

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

Visuospatial Processing for Education in Health and Natural Sciences Juan C. Castro-Alonso,2019-08-05 Visuospatial processing is key to learn and perform professionally in the domains of health and natural sciences As such there is accumulating research showing the importance of visuospatial processing for education in diverse health sciences e g medicine anatomy surgery and in many natural sciences e g biology chemistry physics geology In general visuospatial processing is treated separately as a spatial ability and b working memory with visuospatial stimuli This book attempts to link these two research perspectives and present visuospatial processing as the cognitive activity of two components of working memory mostly the visuospatial sketch pad and also the central executive which allows to perform in both spatial ability and

working memory tasks Focusing on university education in the fields of health sciences and natural sciences the chapters in this book describe the abilities of mental rotation mental folding spatial working memory visual working memory among others and how different variables affect them Some of these variables thoroughly addressed in the book are sex gender visualizations interactivity cognitive load and embodiment The book concludes with a chapter presenting VAR a battery of computer based tests to measure different tasks entailing visuospatial processing With contributions by top educational psychologists from around the globe this book will be of interest to a broad array of readers across the disciplines

Perspectives on Environmental Law Scholarship Ole W. Pedersen,2018-11-08 Presents the first comprehensive reflection on the nature of environmental law scholarship from the perspectives of leading scholars in the field **The Oxford Handbook of Higher Education in the Asia-Pacific Region** Devesh Kapur,Lily Kong,Florence Lo,David M. Malone,2023-01-11 Since the turn of the millennium it has become clear that the Asia Pacific Region is economically the fastest growing continent in the world and is likely to remain so for some time despite the setbacks of the COVID 19 pandemic Asia Pacific s share of the world s Gross Domestic Product GDP doubled from 15 per cent to 30 per cent between 1970 and 2017 and is projected to account for half of global GDP by 2050 With South East and South Asia also growing rapidly with over half the world s population and three of the world s five largest economies Asia is soon poised to home half of the world s middle class a class that is both the driver and the product of higher education The quality of a country s system of higher education may be seen both as a gauge of its current level of national development as well as of its future economic prospects It is therefore natural that the putative Asian Century should generate interest in the region s higher education systems which on the one hand share common characteristics a fixation with credentials and engineering high technology especially among male students and business degrees while at the same time are also highly differentiated not only across countries but also within As such a better understanding of higher education achievements failings potential and structural limitations in the Asia Pacific Region is imperative This handbook presents a number of significant country case studies and documents cross cutting trends relating to among other things the trilemma faced by governments juggling competing claims of access accessible cost and quality the balance between teaching and research the links between labour markets demand and higher education supply preferred fields of study and their consequences the rise of the research university in Asia the lure of institutions of international reputation within the region new education technologies and their effects and trends in government policy within the wider region and sub regions **Science | Environment | Health** Albert Zeyer,Regula Kyburz-Graber,2021-12-09 This book provides a fascinating insight into the on going process of self reflection in the Science Environment Health S E H community The basic vision of a new S E H pedagogy is to establish a transdisciplinary dialogue between the three educational fields of science education environmental education and health education This approach finds growing interest among science educators Since 2014 the ESERA special interest group S E H

has united both experienced and junior researchers all over Europe in a burgeoning research community This book presents a selection of results of these vibrant activities Systems theory has turned out to be a stimulating theoretical framework for S E H The limits of predictability in complex living systems result in structural uncertainty for decision making and they ask for emphasising and rethinking the role of pedagogical concepts like informed citizenship and scientific literacy They challenge crude scientific determinism in environmental and health education which all too often ends up with students eco and health depression Instead S E H conceives coping with uncertainty in terms of an interplay between cognitive and affective factors The horizon of the future remains always open Hope must never die in a new S E H pedagogy Chapter 3 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

Biosemiotics and Evolution Elena Pagni,Richard Theisen Simanke,2022-01-03 This book reviews the evolution of Biosemiotics and gives an outlook on the future of this interdisciplinary new discipline In this volume the foundations of symbolism are transformed into a phenomenological technological philosophical and psychological discussion enriching the readers knowledge of these foundations It offers the opportunity to rethink the impact that evolution theory and the confirmations about evolution as a historical and natural fact has had and continues to have today The book is divided into three parts Part I Life Meaning and Information Part II Semiosis and Evolution Part III Physics medicine and bioenergetics It starts by laying out a general historical philosophical and scientific framework for the collection of studies that will follow In the following some of the main reference models of evolutionary theories are revisited Extended Synthesis Formal Darwinism and Biosemiotics The authors shed new light on how to rethink the processes underlying the origins and evolution of knowledge the boundary between teleonomic and teleological paradigms of evolution and their possible integration the relationship between linguistics and biological sciences especially with reference to the concept of causality biological information and the mechanisms of its transmission the difference between physical and biosemiotic intentionality as well as an examination of the results offered or deriving from the application in the economics and the engineering of design of biosemiotic models for the transmission of culture digitalization and proto design This volume is of fundamental scientific and philosophical interest and seen as a possibility for a dialogue based on theoretical and methodological pluralism The international nature of the publication with contributions from all over the world will allow a further development of academic relations at the service of the international scientific and humanistic heritage

The Patentability of Synthetic Biology Inventions Ilaria de Lisa,2020-09-29 This book addresses Synthetic Biology SynBio a new and promising biotechnology that has attracted much interest from both a scientific and a policy perspective Yet questions concerning the patentability of SynBio inventions have not been examined in detail so far as a result it remains unclear whether these inventions are patentable on the basis of current norms and case law The book addresses this question focusing especially on the subject matter s eligibility and moral criteria It provides an overview of the legislation and decisions applicable to SynBio patents and examines this new

technology in view of the ongoing debate over the patentability of biotechnologies in general The legal analysis is complemented by the practical examination of several patent applications submitted to the European and US patent offices EPO and USPTO and by an assessment of the patent issues that are likely to be raised by future SynBio developments

Natural Fibres: Advances in Science and Technology Towards Industrial Applications Raul Fangueiro, Sohel Rana, 2016-02-10 This book collects selected high quality articles submitted to the 2nd International Conference on Natural Fibers ICNF2015 A wide range of topics is covered related to various aspects of natural fibres such as agriculture extraction and processing surface modification and functionalization advanced structures nano fibres composites and nanocomposites design and product development applications market potential and environmental impact Divided into separate sections on these various topics the book presents the latest high quality research work addressing different approaches and techniques to improve processing performance functionalities and cost effectiveness of natural fibre and natural based products in order to promote their applications in various advanced technical sectors This book is a useful source of information for materials scientists teachers and students from various disciplines as well as for R D staff in industries using natural fibre based materials

2014 International Conference on Advanced Education and Management (ICAEM2014), 2014-02-13 The ICAEM2014 aims to bring together researchers educators and students from around the world in both industry and academia for sharing the state of art research results and applications for exploring new areas of research and development and for discussing emerging issues on education and management fields We received a total of 312 submissions from various parts of the world The Technical Program Committee worked very hard to have all papers reviewed before the review deadline The final technical program consists of 92 papers There are one keynote speech and 2 invited sessions The proceedings were published by DEStech Publications Inc and will be submitted to Ei Compendex databases for indexing We would like to mention that due to the limitation of the conference venue capacity we are not able to include many fine papers in the technical program Our apology goes to those authors

The Next Step in Developmental Embodiment Research: Integrating Concepts and Methods Melanie Krüger, Vanessa Lux, Gustaf Gredebäck, Amy L. Non, 2022-12-12 *Research Handbook on Intellectual Property and the Life Sciences* Duncan Matthews, Herbert Zech, 2017-06-30 Intellectual property IP is a key component of the life sciences one of the most dynamic and innovative fields of technology today At the same time the relationship between IP and the life sciences raises new public policy dilemmas The Research Handbook on Intellectual Property and the Life Sciences comprises contributions by leading experts from academia and industry to provide in depth analyses of key topics including pharmaceuticals diagnostics and genes plant innovations stem cells the role of competition law and access to medicines The Research Handbook focuses on the relationship between IP and the life sciences in Europe and the United States complemented by country specific case studies on Australia Brazil China India Japan Kenya South Africa and Thailand to provide a truly international perspective

Geoscience for the Public Good and Global Development

Gregory R. Wessel, Jeffrey K. Greenberg, 2016-05-18 Offers overview of applications of geosciences to sustainable development and geophilanthropic efforts worldwide and offers advice to guide creation of development projects Primacy of geologic input to all development activities is highlighted along with problems that are encountered and environmental issues that must be addressed

The Routledge Handbook of the Political Economy of Science David Tyfield, Rebecca Lave, Samuel Randalls, Charles Thorpe, 2017-04-28 The political economy of research and innovation R I is one of the central issues of the early twenty first century Science and innovation are increasingly tasked with driving and reshaping a troubled global economy while also tackling multiple overlapping global challenges such as climate change or food security global pandemics or energy security But responding to these demands is made more complicated because R I themselves are changing Today new global patterns of R I are transforming the very structures institutions and processes of science and innovation and with it their claims about desirable futures Our understanding of R I needs to change accordingly Responding to this new urgency and uncertainty this handbook presents a pioneering selection of the growing body of literature that has emerged in recent years at the intersection of science and technology studies and political economy The central task for this research has been to expose important but consequential misconceptions about the political economy of R I and to build more insightful approaches This volume therefore explores the complex interrelations between R I both in general and in specific fields and political economies across a number of key dimensions from health to environment and universities to the military The Routledge Handbook of the Political Economy of Science offers a unique collection of texts across a range of issues in this burgeoning and important field from a global selection of top scholars The handbook is essential reading for students interested in the political economy of science technology and innovation It also presents succinct and insightful summaries of the state of the art for more advanced scholars

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