# Grade11 Life sciences Practical task

# Instructions

- Read the given reader below and understand it so that you may answer the questions that will follow bellow.
- Answer each question's; don't leave any question unanswered if you do so you will be penalised.
- 3. If you didn't write the work you will get zero and you won't do the practical in class.
- After the practical you will submit your work in class.
- 5. This practical will also prepare you for the exam that is about to come in November

#### Practical 1: Dissection of a sheep heart

#### Heart Dissection Walk Through:

The heart dissection is probably one of the most difficult dissections you will do. Part of the reason it is so difficult to learn is that the heart is not perfectly symmetrical, but it is so close that it becomes difficult to discern which side you are looking at (dorsal, ventral, left or right). Finding the vessels is directly related to being able to orient the heart correctly and figuring out which side you are looking at.

The heart is also difficult because the fatty tissue that surrounds the heart can obscure the openings to the vessels. This means that you really must experience the heart with your hands and feel your way to find the openings. Many people will be squeamish about this, and because the heart is slippery, it is easy to drop. Don't be shy with the heart; use your fingers to feel your way through the dissection.

#### 1. Step One: Orientation

When you first remove your heart from the bag, you will see a lot of fatty tissue surrounding it. It is usually a waste of time to try to remove this tissue. You may also want to arm yourself with some kind of markers for the parts you find, colour pencils work great to identify a vessel and you will see many used to mark openings on the heart.

There are a few clues to help you figure out the left and the right side, but often the packaging and preserving process can cause the heart to be misshapen. If you are lucky, the heart will be nicely preserved and you will see that the front (ventral) side of the heart has a couple of key features:

- 1) a large pulmonary trunk(artery) that extends off the top of it
- 2) the flaps of the auricles covering the top of the atria.
- 3) thecurve of the entire front side, whereas the backside is much flatter.

# **Life Science Paper 3 2013 Practical**

Paulo J. Cruz

#### **Life Science Paper 3 2013 Practical:**

#### 2013 International Conference on Biological, Medical and Chemical Engineering (BMCE2013) E.

Purshotaman, 2014-01-06 This proceeding is indeed the result of remarkable cooperation of many distinguished experts who came together to contribute their research work and comprehensive in depth and up to date review articles We are thankful to all the contributing authors and co authors for their valued contribution to this book We would also like to express our gratitude to all the publishers and authors and others for granting us the copyright permissions to use their illustrations 2013 International Conference on Biological Medical and Chemical Engineering BMCE2013 which will be held on December 1 2 2013 Hong Kong aims to provide a forum for accessing to the most up to date and authoritative knowledge from both Biological Medical and Chemical Engineering The dynamic Hong Kong officially the Hong Kong Special Administrative Region of the People's Republic of China is a largely self governing territory of the People's Republic of China PRC facing the Guangdong Province in the north and the South China Sea to the east west and south Under the one country two systems policy Hong Kong enjoys considerable autonomy in all areas with the exception of foreign affairs and defense which are the responsibility of the PRC Government As part of this arrangement Hong Kong continues to maintain its own currency separate legal political systems and other aspects that concern its way of life many of which are distinct from those of mainland China In relation with the title of this proceeding Biological and Medical Engineering Developmental biology Environmental Biology Evolutionary Biology Marine Biology Chemistry and Chemical Engineering Fundamentals Chemical engineering educational challenges and development Chemical reaction engineering Chemical engineering equipment design and process design Thermodynamics Catalysis reaction engineering Advances in computational numerical methods Systems biology Integration of Life Sciences Engineering Multi scale and Multi disciplinary Approaches Controlled release of the active ingredient Energy nuclear sciences Energy and environment CFD chemical engineering Food engineering etc has been targeted and included in this proceeding. The proceeding is the results of the contribution of a number of experts from the international scientific community in the respective field of research The Handbook of Science and Technology Studies, fourth edition Ulrike Felt, Rayvon Fouche, Clark A. Miller, Laurel Smith-Doerr, 2016-12-23 The fourth edition of an authoritative overview with all new chapters that capture the state of the art in a rapidly growing field Science and Technology Studies STS is a flourishing interdisciplinary field that examines the transformative power of science and technology to arrange and rearrange contemporary societies The Handbook of Science and Technology Studies provides a comprehensive and authoritative overview of the field reviewing current research and major theoretical and methodological approaches in a way that is accessible to both new and established scholars from a range of disciplines This new edition sponsored by the Society for Social Studies of Science is the fourth in a series of volumes that have defined the field of STS It features 36 chapters each written for the fourth edition that capture the state of the art in a rich and rapidly growing field

One especially notable development is the increasing integration of feminist gender and postcolonial studies into the body of STS knowledge The book covers methods and participatory practices in STS research mechanisms by which knowledge people and societies are coproduced the design construction and use of material devices and infrastructures the organization and governance of science and STS and societal challenges including aging agriculture security disasters environmental justice and climate change The Palgrave Handbook of Biology and Society Maurizio Meloni, John Cromby, Des Fitzgerald, Stephanie Lloyd, 2017-10-27 This comprehensive handbook synthesizes the often fractured relationship between the study of biology and the study of society Bringing together a compelling array of interdisciplinary contributions the authors demonstrate how nuanced attention to both the biological and social sciences opens up novel perspectives upon some of the most significant sociological anthropological philosophical and biological questions of our era The six sections cover topics ranging from genomics and epigenetics to neuroscience and psychology to social epidemiology and medicine The authors collaboratively present state of the art research and perspectives in some of the most intriguing areas of what can be called biosocial and biocultural approaches demonstrating how quickly we are moving beyond the acrimonious debates that characterized the border between biology and society for most of the twentieth century This landmark volume will be an extremely valuable resource for scholars and practitioners in all areas of the social and biological sciences The chapter Ten Theses on the Subject of Biology and Politics Conceptual Methodological and Biopolitical Considerations is open access under a CC BY 4 0 license via link springer com Versions of the chapters The Transcendence of the Social Scrutinizing the Epigenetics Revolution Species of Biocapital 2008 and Speciating Biocapital 2017 and Experimental Entanglements Social Science and Neuroscience Beyond Interdisciplinarity are available open access via third parties For further information please see license information in the chapters or on link springer com **Teaching Undergraduate Science** Linda C. Hodges, 2023-07-03 This book is written for all science or engineering faculty who have ever found themselves baffled and frustrated by their undergraduate students lack of engagement and learning The author an experienced scientist faculty member and educational consultant addresses these issues with the knowledge of faculty interests constraints and day to day concerns in mind Drawing from the research on learning she offers faculty new ways to think about the struggles their science students face She then provides a range of evidence based teaching strategies that can make the time faculty spend in the classroom more productive and satisfying Linda Hodges reviews the various learning problems endemic to teaching science explains why they are so common and persistent and presents a digest of key ideas and strategies to address them based on the research she has undertaken into the literature on the cognitive sciences and education Recognizing that faculty have different views about teaching different comfort levels with alternative teaching approaches and are often pressed for time Linda Hodges takes these constraints into account by first offering a framework for thinking purposefully about course design and teaching choices and then providing a range of strategies to address very specific

teaching barriers whether it be students motivation engagement in class ability to problem solve their reading comprehension or laboratory research or writing skills Except for the first and last chapters the other chapters in this book stand on their own i e can be read in any order and address a specific challenge students have in learning and doing science Each chapter summarizes the research explaining why students struggle and concludes by offering several teaching options categorized by how easy or difficult they are to implement Some for example can work in a large lecture class without a great expenditure of time others may require more preparation and a more adventurous approach to teaching Each strategy is accompanied by a table categorizing its likely impact how much time it will take in class or out and how difficult it will be to implement Like scientific research teaching works best when faculty start with a goal in mind plan an approach building on the literature use well tested methodologies and analyze results for future trials Linda Hodges message is that with such intentional thought and a bit of effort faculty can succeed in helping many more students gain exciting new skills and abilities whether those students are potential scientists or physicians or entrepreneurs. Her book serves as a mini compendium of current research as well as a protocol manual a readily accessible guide to the literature the best practices known to date and a framework for thinking about teaching Big Data Analytics in Bioinformatics and Healthcare Wang, Baoying, Li, Ruowang, Perrizo, William, 2014-10-31 As technology evolves and electronic data becomes more complex digital medical record management and analysis becomes a challenge In order to discover patterns and make relevant predictions based on large data sets researchers and medical professionals must find new methods to analyze and extract relevant health information Big Data Analytics in Bioinformatics and Healthcare merges the fields of biology technology and medicine in order to present a comprehensive study on the emerging information processing applications necessary in the field of electronic medical record management Complete with interdisciplinary research resources this publication is an essential reference source for researchers practitioners and students interested in the fields of biological computation database management and health information technology with a special focus on the methodologies and tools to manage massive and Scientific and Medical Communication Scott A. Mogull, 2017-09-01 Scientific and Medical complex electronic information Communication A Guide for Effective Practice prepares readers to effectively communicate in professional scientific communities The material in this book is firmly grounded in more than 500 published research findings and editorials by scientific writers authors and journal editors Thus this text provides the broadest and most comprehensive analysis of scientific writing In addition carefully selected and thoroughly annotated examples from the scientific and medical literature demonstrate the recommendations covered in the text These real world examples were carefully selected so that the scientific content can be understood by those without a detailed background in any particular scientific or medical field thus clearly illustrating the content organization and writing style This text will prepare individuals to write and edit scientific manuscripts conference abstracts posters and press releases according to journal and professional standards Readers will

also learn to conduct effective searches of the scientific and medical literature as well as proper citation practices

Mentoring Comparative Lawyers: Methods, Times, and Places Francesca Fiorentini, Marta Infantino, 2019-11-22 This volume features papers written in honor of Mauro Bussani and celebrates the work and contributions of this renowned scholar of comparative law The content reflects the various theoretical and practical areas in which he has already left a lasting mark The essays explore the theory and practice of comparative law in different areas and contexts and highlight innovative approaches to a large variety of hot topic private and public law subjects. The authors include young scholars lawyers legal consultants human rights activists and practitioners all of whom Professor Bussani has trained supervised and supported throughout their careers The contributions emphasize the many ways in which Professor Bussani's teaching and scientific output have enriched revolutionized and challenged both theory and practice They cover e g the law of secured transactions Western law and legal pluralism fashion law contract law in China and in the Arab World contract and tort in the West scientific evidence risk regulation global finance human rights indicators anti discrimination laws democracy and **Understanding Light Microscopy** Jeremy Sanderson, 2019-03-04 Introduces readers to the climate change law enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade and the light microscope together with the information that it gives about the image has changed too Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years This informative practical full colour guide fills the gap between specialised edited texts on detailed research topics and introductory books which concentrate on an optical approach to the light microscope It also provides comprehensive coverage of confocal microscopy which has revolutionised light microscopy over the last few decades Written to help the reader understand set up and use the often very expensive and complex modern research light microscope properly Understanding Light Microscopy keeps mathematical formulae to a minimum containing and explaining them within boxes in the text Chapters provide in depth coverage of basic microscope optics and design ergonomics illumination diffraction and image formation reflected light polarised light and fluorescence microscopy deconvolution TIRF microscopy FRAP super resolution techniques biological and materials specimen preparation and more Gives a didactic introduction to the light microscope Encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full colour illustrations and workable practical protocols Understanding Light Microscopy is intended for any scientist who wishes to understand and use a modern light microscope It is also ideal as supporting material for a formal taught course or for individual students to learn the key aspects of light microscopy through their own study Structures and Architecture Paulo J. Cruz, 2016-10-14 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and

creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process exploiting together new concepts applications and challenges This set of book of abstracts and full paper searchable CD ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference ICSA2016 organized by the School of Architecture of the University of Minho Guimar es Portugal July 2016 to promote the synergy in the collaboration between the disciplines of architecture and structural engineering Labs of Our Own Sig / Sara Giordano, 2025-02-11 From climate change to COVID 19 to reproductive justice there has been deep political polarization around science Labs of Our Own provides a unique entry point into these twenty first century science wars by focusing on our affective relationships to science The book delves into various sites where scientists teachers artists and activists claim to create more democratic access to science from DIY biology community labs to feminist classrooms to activist science practitioners The reader will find that these claims for and attempts at democratic sciences not only impact what counts as science and who counts as a scientist but reconfigure who is included in the proper public Instead of arguing for a knee jerk defense of science against right wing attacks Labs of Our Own builds the case for a feminist antiracist decolonial gueer science tinkering practice that intentionally politically and ethically acts to produce new challenges to the definition and boundaries of the human Neuroscience and the Future of Chemical-Biological Weapons Malcolm Dando, 2015-07-21 During the last century advances in the life sciences were used in the development of biological and chemical weapons in large scale state offensive programmes many of which targeted the nervous system This study questions whether the development of novel biological and chemical neuroweapons can be prevented as neuroscience progresses

Correcting the Scholarly Record for Research Integrity M. V. Dougherty, 2018-11-09 This volume is the first book length study on post publication responses to academic plagiarism in humanities disciplines It demonstrates that the correction of the scholarly literature for plagiarism is not a task for editors and publishers alone each member of the research community has an indispensable role in maintaining the integrity of the published literature in the aftermath of plagiarism If untreated academic plagiarism damages the integrity of the scholarly record corrupts the surrounding academic enterprise and creates inefficiencies across all levels of knowledge production By providing case studies from the field of philosophy and related disciplines the volume exhibits that current post publication responses to academic plagiarism are insufficient It catalogues how humanities disciplines fall short in comparison with the natural and biomedical sciences for ensuring the integrity of the body of published research This volume provides clarity about how to conceptualize the scholarly record surveys the traditional methods for correcting it and argues for new interventions to improve the reliability of the body of published research The book is valuable not only to those in the field of philosophy and other humanities disciplines but also to those interested in research ethics meta science and the sociology of research

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Pedagogy giving clear understanding of the concepts in Chapterwise manner Each chapter is supplied with enough theories illustrations and examples With more than 1500 MCQs help candidates for the quick of the chapters Practice part has been equally paid attention by providing Previous Years Questions asked in CTET TET Practice Questions in every chapter along with the 5 Practice Sets exactly based on the latest pattern of the Examination Also Latest Solved Paper is given to know the exact Trend and Pattern of the paper Housed with ample number of questions for practice it gives robust study material useful for CTET UPTET HTET UTET CGTET and all other states TETs TOC Solved Paper I II 2021 January Solved Paper I 2019 December Solved Paper II 2019 December Solved Paper 2019 July Solved Paper 2018 December Science Pedagogy The Oxford Handbook of Meaningful Work Ruth Yeoman, Catherine Bailey, Adrian Madden, Marc Thompson, 2019-01-03 The Oxford Handbook of Meaningful Work examines the concept practices and effects of meaningful work in organizations and beyond Taking an interdisciplinary approach this volume reflects diverse scholarly contributions to understanding meaningful work from philosophy political theory psychology sociology organizational studies and economics In philosophy and political theory treatments of meaningful work have been influenced by debates concerning the tensions between work as unavoidable and necessary and work as a source of self realization and human flourishing This tension has come into renewed focus as work is reshaped by technology globalization and new forms of organization In management studies much empirical work has focused on meaningful work from the perspective of positive psychology but more recent research has considered meaningful work as a complex phenomenon socially constructed from interactive processes between individuals and between individuals organizations and society This Handbook examines meaningful work in the context of moral and pragmatic concerns such as human flourishing dignity alienation freedom and organizational ethics The collection illuminates the relationship of meaningful work to organizational constructs of identity belonging callings self transcendence culture and occupations Representing some of the most up to date academic research the editors aim to inspire and equip researchers by identifying new directions and methods with which to deepen scholarly inquiry into a topic of growing Artificial Intelligence Research and Development Karina Gibert, Enric Plaza, 2018-10-15 It is almost importance impossible today to find an economic sector or aspect of society which does not involve AI techniques in some way This pervasive technology has become indispensible in a multitude of ways from supporting decision making to managing digital devices such as smart sensors mechanical arms or artificial eyes The ability of AI to emulate intelligence in the resolution of challenging problems has placed it at the centre of problem solving in all areas of our society This book presents contributions from CCIA 2018 the 21st International Conference of the Catalan Association for Artificial Intelligence which took place in Alt Empord Catalonia Spain on 8 10th October 2018 The book aims to provide a picture of what is being achieved and what is under development in AI today As such its contents represent the diversity of approaches and applications currently being researched but it also presents invited contributions which deal with some of the challenges that

will have to be faced in the decade to come The contributions included in this book are organized under the following headings logic satisfiability and fuzzy sets classifiers networks and machine learning data science recommender systems and case based reasoning natural language and sound processing cognitive systems and agents and computer vision and robotics The book also covers a number of current AI challenges and new trends like big data spatial problem solving ethics and AI and how blockchain impacts AI Providing an up to the minute overview of current AI technology and research this book will be of value to all those with an interest in the subject Bioprocess Engineering Pau Loke Show, Chien Wei Ooi, Tau Chuan Ling, 2019-06-13 Bioprocess Engineering Downstream Processing is the first book to present the principles of bioprocess engineering focusing on downstream bioprocessing It aims to provide the latest bioprocess technology and explain process analysis from an engineering point of view using worked examples related to biological systems This book introduces the commonly used technologies for downstream processing of biobased products The covered topics include centrifugation filtration membrane separation reverse osmosis chromatography biosorption liquid liquid separation and drying The basic principles and mechanism of separation are covered in each of the topics wherein the engineering concept and design are emphasized This book is aimed at bioprocess engineers and professionals who wish to perform downstream processing for their feedstock as well as students Sustainable Development Goal 14 - Life Below Water: Towards a Sustainable Ocean Emanuele Di Lorenzo, Christian Lønborg, Jesper H. Andersen, Elva G. Escobar-Briones, Michelle Jillian Devlin, Angel Borja, Marius Nils Müller, Carol Robinson, Alex Ford, Anna Milena Zivian, Ana M. M. Sequeira, Sebastian Villasante, Brett W. Molony, Tomaso Fortibuoni, Simone Libralato, Pierre Failler, 2022-03-15 **POGIL** Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry. The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels. This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully

designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor's role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project Food Processing Technology P.J. Fellows, 2016-10-04 Food Processing Technology Principles and Practice Fourth Edition has been updated and extended to include the many developments that have taken place since the third edition was published The new edition includes an overview of the component subjects in food science and technology processing stages important aspects of food industry management not otherwise considered e.g. financial management marketing food laws and food industry regulation value chains the global food industry and over arching considerations e.g. environmental issues and sustainability In addition there are new chapters on industrial cooking heat removal storage and distribution along with updates on all the remaining chapters This updated edition consolidates the position of this foundational book as the best single volume introduction to food manufacturing technologies available remaining as the most adopted standard text for many food science and technology courses Updated edition completely revised with new developments on all the processing stages and aspects of food industry management not otherwise considered e g financial management marketing food laws and food industry regulation and more Introduces a range of processing techniques that are used in food manufacturing Explains the key principles of each process including the equipment used and the effects of processing on micro organisms that contaminate foods Describes post processing operations including packaging and distribution logistics Includes extra textbook elements such as videos and calculations slides in addition to summaries of key Ethics and Integrity in Health and Life Sciences Research Zvonimir Koporc, 2018-12-06 This points in each chapter 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

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