

### Alteration of generations

During the life cycles of each of the four plant groups two definitive generations occur, i.e.

- **Gametophyte generation**, which is sexual, and produces **gametes**
- **Sporophyte generation**, which is asexual, and produces **spores**

These two generations alternate in that the one generation gives rise to the other. This phenomenon is known as **alternation of generations**.



### BRYOPHYTES (MOSES)

- Bryophytes include three groups, namely:

- mosses
- liverworts
- hornworts



Mosses are the first plants that are thought to have lived on land 450 million years ago.

- Mosses grow in cool, moist, shady environments.
- The **gametophyte generation** is the **dominant** generation and is represented by the adult moss plant.
- The plant body is known as a **thallus**, because it does not have true roots, stems and leaves.
- Instead it has **leaf-like structures**, **stem-like structures** and **rhizoids**.
- The rhizoids anchor the moss plant firmly in the soil and absorb water and mineral salts.
- **Vascular tissue** (xylem and phloem) are **absent**.



- Gametes (ova and sperm) are produced in male and female sex organs of the gametophyte.

**Remember:** The gametophyte generation produces gametes for sexual reproduction.



- In sexual reproduction, the sperm **requires water** to move to the ovum for fertilisation to occur.
- After fertilisation has occurred a **zygote** is formed which is the beginning of the **sporophyte generation**.



- The sporophyte develops on the gametophyte and it is dependent on it.

- The sporophyte consists of a **foot** (part which is anchored in the gametophyte), and a **seta** which bears a capsule known as the **sporangium**.

A sporangium is a structure that produces and stores spores.



- The sporangium is covered with a cap, the **calyptra**.
- The **spores** form in the sporangium.
- The sporangium eventually dries out and releases the spores.

**Remember:** The sporophyte generation produces spores for asexual reproduction.

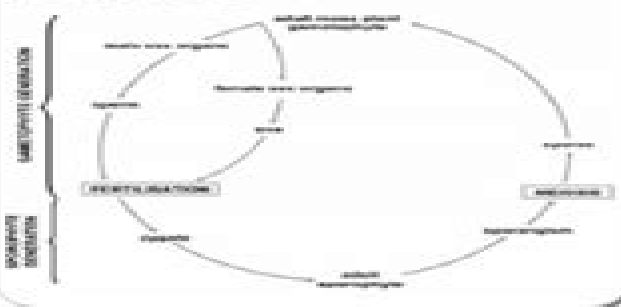


- The spores are dispersed by the wind and germinate in damp soil.
- A new plant, representing the **gametophyte generation**, develops.



Note that moss plants do not produce seeds and fruit.

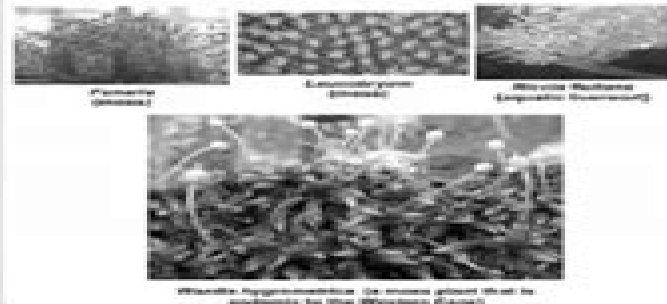
The life cycle of Bryophytes is represented below. You do not have to learn it, it is simply given to illustrate the concepts in context and make them more understandable.



### Overview

BRYOPHYTES	Structure of dominant generation (gametophyte)	Vascular tissue	Spores/seeds	Fruit	Dependency on water for reproduction
Mosses, Liverworts, Hornworts	Thallus - no true roots, stems or leaves	Absent	Spores	None	Water required for fertilisation

### South African examples of Bryophytes



### PTERIDOPHYTES (FERNS)

- Pteridophytes are a group of plants that are adapted to life on land.
- Ferns mostly occur in moist, shady environments.
- Unlike the Bryophytes, the sporophyte generation is the dominant generation in ferns.
- The adult fern plant represents the sporophyte generation.
- The fern has **true roots, stems and leaves** i.e. it is not a thallus.
- In most ferns (excluding tree ferns) the stem is a horizontal, underground **rhizome**.

# Life Science Practical 2015

**Imad Abugessaisa, Takeya Kasukawa**



## **Life Science Practical 2015:**

**Excel 2016 for Health Services Management Statistics** Thomas J. Quirk, Simone M. Cummings, 2016-09-01 This book shows the capabilities of Microsoft Excel in teaching health services management statistics effectively Similar to the previously published Excel 2013 for Health Services Management Statistics this book is a step by step exercise driven guide for students and practitioners who need to master Excel to solve practical health service management problems If understanding statistics isn't your strongest suit you are not especially mathematically inclined or if you are wary of computers this is the right book for you Excel a widely available computer program for students and managers is also an effective teaching and learning tool for quantitative analyses in health service courses Its powerful computational ability and graphical functions make learning statistics much easier than in years past However Excel 2016 for Health Services Management Statistics A Guide to Solving Practical Problems is the first book to capitalize on these improvements by teaching students and managers how to apply Excel to statistical techniques necessary in their courses and work Each chapter explains statistical formulas and directs the reader to use Excel commands to solve specific easy to understand health service management problems Practice problems are provided at the end of each chapter with their solutions in an appendix Separately there is a full Practice Test with answers in an Appendix that allows readers to test what they have learned

**Practical Guide to Life Science Databases** Imad Abugessaisa, Takeya Kasukawa, 2022-01-06 This book provides the latest information of life science databases that center in the life science research and drive the development of the field It introduces the fundamental principles rationales and methodologies of creating and updating life science databases The book brings together expertise and renowned researchers in the field of life science databases and brings their experience and tools at the fingertips of the researcher The book takes bottom up approach to explain the structure content and the usability of life science database Detailed explanation of the content structure query and data retrieval are discussed to provide practical use of life science database and to enable the reader to use database and provided tools in practice The readers will learn the necessary knowledge about the untapped opportunities available in life science databases and how it could be used so as to advance basic research and applied research findings and transforming them to the benefit of human life Chapter 2 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

**ICEL2015-10th International Conference on e-Learning** Dr Carlton Watson, 2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25-26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and

expanding range of e Learning available to them With an initial submission of 91 abstracts after the double blind peer review process there are 41 academic Research papers and 2 PhD papers Research papers published in these Conference Proceedings These papers come from some many different countries including Australia Belgium Brazil Canada China Germany Greece Hong Kong Malaysia Portugal Republic of Macedonia Romania Slovakia South Africa Sweden United Arab Emirates UK and the USA A selection of the best papers those agreed by a panel of reviewers and the editor will be published in a conference edition of EJEL the Electronic Journal of e Learning [www.ejel.com](http://www.ejel.com) These will be chosen for their quality of writing and relevance to the Journal s objective of publishing papers that offer new insights or practical help into the application e Learning

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**ICAR 2015 - ABSTRACTS** Andra PANAIT,2015-03-26 International Conference on Architectural Research ICAR 2015 RESEARCH THROUGH ARCHITECTURE ISSN 2393 4433 ISSN L 2393 4433 Descrierea CIP a Bibliotecii Na ionale a Rom niei Re search through architecture ed conferen iar dr arh Andra Panait Bucure ti Editura Universitar Ion Mincu 2015 International Conference on Architectural Research ICAR 2015 ISSN 2393 4433 ISSN L 2393 4433 ISBN 978 606 638 112 3 I Panait Andra ed 72 Graphic design Andra Panait We acknowledge the help in preparing this volume to the following peoples assoc prof Daniel Com a Arch PhD assoc prof Elena Codina Du oi u arch PhD assoc prof Francoise Pamfil arch PhD lecturer Marina Mih il Arch PhD assist Daniel ARMENCIU Arch PhD assist Oana DIACONESCU Arch PhD assist Mihaela ZAMFIR Arch PhD assist Raluca BORO Arch PhD student Ion Mincu Publishing House Bucharest Introduction Under the title theme Re Search through Architecture ICAR 2015 proposes a debate of the subject defining some new principles of nowadays architectural design In the XXI st century in searching of a style after Postmodernism it is considered that new architecture based on algorithms and parameters may offer new senses of space continuity and legibility In opposite the contextualist and phenomenologist movements consider this approach as a formal and fragile tendency culturally un sustained and which won t prove its consistence in time as utopist and futurist did Topics

like new avant garde movement stylistic searching anachronistically architecture space continuities and correspondences lived architecture or experimental manifesto projects the evolving of geometries urban continuities or classical defragmentation functional zoning social impact scenarios space formalization aesthetic and symbolic design values authentically or new built archaeology sustainable design etc will be presented and debated under three main sections

**Traditional versus Computational Innovation and Experiment Archive Utopia Events Built Unbuilt**

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**KEYNOTE SPEAKERS** Juan P HINESTROZA Assoc Prof Director of The Textiles Nanotechnology Laboratory College of Human Ecology of Cornell University USA Karin HOFERT FEIX Arch Profesor Titular E U Department of Architectural Design Barcelona School of Architecture ETSAB Politechnical University of Catalunya UPC Spain Romolo MARTEMUCCI Arch PhD Professor of Architecture Pennsylvania State University USA Director of Pennsylvania State University Sede di Roma President of Pantheon Institute Rome President of Accademia Adrianea di

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it presents economic and mathematical models for managing product lifecycles based on the application of recent methods e.g. digital design and automated intelligent systems to control pre production and production processes Given its scope the book appeals to researchers economic analysts and entrepreneurs alike **Thomas Seebohm on the Foundations of the Sciences** Thomas Nenon, 2020-02-03 This book explores the work of Thomas Seebohm 1934-2014 a leading phenomenologist and hermeneuticist It features papers that offer a critical and constructive dialogue about Seebohm's analyses and their implications for the sciences The net result is an in depth study and a helpful overview of Seebohm's general approach and his specific views on various areas of modern science The contributors focus especially upon his final text *History as a Science and the System of the Sciences* They view this as the culmination and summary of his historical and phenomenological investigations into the foundations nature and limits of modern sciences This includes not just history but the *Geisteswissenschaften* more generally along with the social and natural sciences as well The essays in this volume reflect that range This volume presents insightful discussions about the nature and legitimacy of the human sciences as sciences and the unique character of the social sciences It will be of interest not just as a matter of historical scholarship but also and above all as an important contribution to phenomenology and to the philosophy of science and the sciences as such It deserves attention by scholars from any philosophical tradition interested in thinking about the foundations of their disciplines and a philosophy of science that includes but is not limited to the natural sciences **Proceedings of the International Conference on Education Research** Reza Hosseini, *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 **ECIE2015-10th European Conference on Innovation and Entrepreneurship** Renata Paola Dameri, Roberto Garelli and Marina Resta, 2015-08-24 These proceedings represent the work of contributors to the 10th European Conference on Innovation and Entrepreneurship ECIE 2015 hosted this year by

The University of Genoa Italy on the 17 18 September 2015 The Conference Chair is Prof Luca Beltrametti and the Programme Co chairs are Prof Renata Paola Dameri Prof Roberto Garelli and Prof Marina Resta all from the University of Genoa ECIE continues to develop and evolve Now in its 10th year the key aim remains the opportunity for participants to share ideas and meet the people who hold them The scope of papers will ensure an interesting two days The subjects covered illustrate the wide range of topics that fall into this important and growing area of research The opening keynote presentation is given by Marco Doria Mayor of Genoa on the topic of Innovation and entrepreneurship in Genoa past present and future A second keynote will be given by Flavia Marzano from the National board for innovation and Italian digital agenda on the topic of Innovation New visions not just new technologies The second day Keynote will be given by Roberto Santoro President of the European Society of Concurrent Engineering Network ESoCE Net on the topic of People Olympics for healthy and active living A people driven social innovation platform In addition to the main themes of the conference there are a number of specialist mini tracks on topics including Innovation and strategy Entrepreneurship education in action The theory and practice of collaboration in entrepreneurship and Challenges for entrepreneurship and innovation in the 21st Century With an initial submission of 275 abstracts after the double blind peer review process there are 88 Academic research papers 6 PhD research papers 1 Masters Research paper 4 work in progress papers and 1 Non academic paper published in these Conference Proceedings These papers represent research from Australia Brazil Bulgaria Colombia Croatia Cyprus Czech Republic Denmark Egypt Finland France Germany Ghana Greece Hungary India Iran Ireland Israel Italy Japan Kazakhstan Kuwait Lithuania Malaysia Mexico Netherlands New Zealand Nigeria Norway Poland Portugal Romania Romania Russia Russian Federation Saudi Arabia South Africa Spain Sweden Thailand Thailand UK and USA *ECGBL2015-9th European Conference on Games Based Learning* Robin Munkvold and Line Kolås, 2015-09-18 These proceedings represent the work of researchers participating in the 9th European Conference on Games Based Learning which is being hosted this year by Nord Trondelag University College Steinkjer Norway on the 8 9 October 2015 The Conference has become a key platform for individuals to present their research findings display their work in progress and discuss conceptual advances in many different areas and specialties within Games Based Learning It also offers the opportunity for like minded individuals to meet discuss and share knowledge ECGBL continues to evolve and develop and the wide range of papers and topics will ensure an interesting two day conference In addition to the main streams of the conference there are mini tracks focusing on the areas of the design of multiplayer collaborative serious games applied Games and gamification the teacher's role in game based learning games for STEM Science Technology Engineering Mathematics learning assessment of digital game based learning and pervasive and ubiquitous gaming for learning In addition to the presentations of research we are delighted to host the third year of the Serious Game competition which provides an opportunity for educational game designers and creators to participate in the conference and demonstrate their game design and development skills in an international

competition This competition is again sponsored by SEGAN Serious Games Network With an initial submission of more than 60 games 28 finalists will present their games at the conference Prizes will be awarded to the games judged to demonstrate the best quality and originality of game play itself and the positioning and articulation of the game s contribution to the educational domain With an initial submission of 190 abstracts after the double blind peer review process there are 75 research papers 15 PhD research papers 4 Non Academic papers and 8 work in progress papers published in these Conference Proceedings These papers represent research from more than 40 countries including Australia Austria Belgium Brazil Bulgaria Canada Czech Republic Denmark Finland France Germany Greece Hungary Ireland Israel Italy Japan Malaysia Norway Portugal Russia Saudi Arabia Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan ROC The Netherlands The Netherlands United Arab Emirates UK and USA *Management* ,1990 **ECMLG2015-11th European Conference on Management Leadership and Governance** José Carlos Dias Rouco,2015-10-26 These Proceedings represent the work of contributors to the 11th European Conference on Management Leadership and Governance held this year at the Military Academy Lisbon Portugal on the 12 13 November 2015 The Conference Chair is Major General Joao Vieira Borges from and the Programme Chair is Lieutenant Colonel Jose Carlos Dias Rouco both from the Military Academy Lisbon Portugal Keynote presentations are given by Colonel Nuno Lemos Pires from the Military Academy and Lt Col Paulo Fernando Viegas Nunes from the National Defence Institute Lisbon Portugal The Conference offers an opportunity for scholars and practitioners interested in the issues related to Management Leadership and Governance to share their thinking and research findings These fields of study are broadly described as including issues related to the management of the organisations resources the interface between senior management and the formal governance of the organisation This Conference provides a forum for discussion collaboration and intellectual exchange for all those interested in any of these fields of research or practice With an initial submission of 163 abstracts after the double blind peer review process there are 64 Academic research Papers 8 PhD Research Papers and 2 Masters research paper in these Conference Proceedings These papers reflect the truly global nature of research in the area with contributions from Belgium Canada China Colombia Czech Republic Denmark Finland Germany Italy Japan Kazakhstan Lithuania Netherlands New Zealand Poland Portugal Republic of Korea Romania Russia Scotland South Africa Syria The Netherlands Turkey UAE UK United Arab Emirates USA

**Pharmaceutical Product Development** Vandana B. Patravale,John I. Disouza,Maharukh Rustomjee,2016-05-25 Pharmaceutical product development is a multidisciplinary activity involving extensive efforts in systematic product development and optimization in compliance with regulatory authorities to ensure the quality efficacy and safety of resulting products Pharmaceutical Product Development equips the pharmaceutical formulation scientist with extensive and up to date knowledge of drug product development and covers all steps from the beginning of product conception to the final packaged form that enters the market and lifecycle management thereof Applications of core scientific principles for product

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