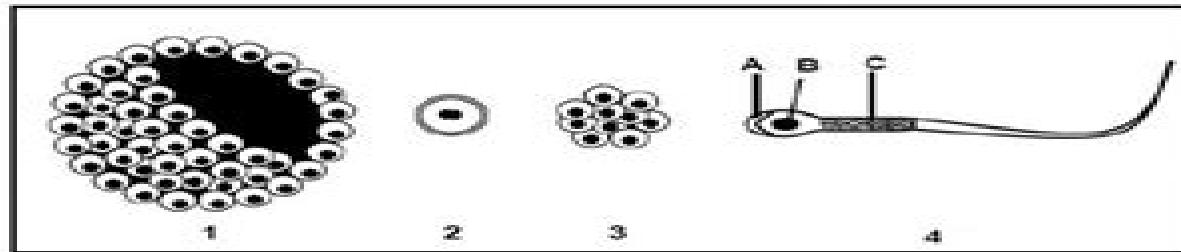


1.4

The diagrams below show structures formed during human reproduction.



1.4.1 Identify part A. (1)

1.4.2 Name the organelle found in large numbers in part C. (1)

1.4.3 Give the NUMBER (1, 2, 3 or 4) only of the diagram that represents the following:

- (a) Morula (1)
- (b) Structure that will implant in the uterus (1)
- (c) Blastula/Blastocyst (1)

1.4.4 Give the LETTER and NAME of the part that will enter the ovum during fertilisation. (2)

1.4.5 Name the type of cell division that occurred to produce the structure in diagram 3. (1)
(8)

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A Gutmann

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ICT Innovations 2018. Engineering and Life Sciences Slobodan Kalajdziski, Nevena Ackovska, 2018-09-12 This book constitutes the refereed proceedings of the 10th International ICT Innovations Conference ICT Innovations 2018 held in Ohrid Macedonia in September 2018. The 21 full papers presented were carefully reviewed and selected from 81 submissions. They cover the following topics: sensor applications and deployments, embedded and cyber physical systems, robotics, network architectures, cloud computing, software infrastructure, software creation and management, models of computation, computational complexity and cryptography, design and analysis of algorithms, mathematical optimization, probability and statistics, data management systems, data mining, human computer interaction, HCI, artificial intelligence, machine learning, life and medical sciences, health care information systems, bioinformatics.

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.

Multi-omic Data Integration Paolo Tieri, Christine Nardini, Jennifer Elizabeth Dent, 2015-09-17 Stable predictive biomarkers and interpretable disease signatures are seen as a significant step towards personalized medicine. In this perspective, integration of multi-omic data coming from genomics, transcriptomics, glycomics, proteomics, and metabolomics is a powerful strategy to reconstruct and analyse complex multi-dimensional interactions, enabling deeper mechanistic and medical insight. At the same time, there is a rising concern that much of such different omic data, although often publicly and freely available, lie in databases and repositories underutilised or not used at all. Issues coming from lack of standardisation and shared biological identities are also well known. From these considerations, a novel pressing request arises from the life sciences to design methodologies and approaches that allow for these data to be interpreted as a whole, i.e., as intertwined molecular signatures containing genes, proteins, mRNAs, and miRNAs, able to capture inter-layer connections and complexity. Papers discuss data integration approaches and methods of several types and extents, their application in understanding the pathogenesis of specific diseases, or in identifying candidate biomarkers to exploit the full benefit of multi-omic datasets and their intrinsic information content. Topics of interest include, but are not limited to: Methods for the integration of layered data, including but not limited to genomics, transcriptomics,

glycomics proteomics metabolomics Application of multi omic data integration approaches for diagnostic biomarker discovery in any field of the life sciences Innovative approaches for the analysis and the visualization of multi omic datasets Methods and applications for systematic measurements from single undivided samples comprising genomic transcriptomic proteomic metabolomic measurements among others Multi scale approaches for integrated dynamic modelling and simulation Implementation of applications computational resources and repositories devoted to data integration including but not limited to data warehousing database federation semantic integration service oriented and or wiki integration Issues related to the definition and implementation of standards shared identities and semantics with particular focus on the integration problem Research papers reviews and short communications on all topics related to the above issues were welcomed

[Biomineralization: From Fundamentals to Biomaterials & Environmental Issues](#) Frédéric Marin, Franz Brümmer, Antonio G. Checa, Gabriel Furtos, Isidoro Giorgio Lesci, Lidija Šiller, 2016-01-15 Special topic volume with invited peer reviewed papers only [Intellectual Property Issues in Life Sciences](#) Chetan Keswani, Cristina Possas, 2024-11-15 Intellectual Property Issues in Life Sciences Disputes and Controversies highlights emerging legal social and regulatory issues pertaining to various areas of life sciences Patents occupy a prominent position in the innovation systems in the life sciences but to what extent they support or hinder innovation is widely disputed Life science is a broad subject including agriculture ecology microbiology plant and animal sciences health and diseases biotechnology etc However despite the broad applications of biotechnology and molecular biology techniques profits on investments are surprisingly low Thus it is vitally important for universities public research organizations and private enterprises to protect their innovations There are vast differences of opinion on patentability of living organisms which are largely barred from patent protection However mind sets are rapidly shifting and IP issues in life sciences are receiving increasing attention To compete with progressive bio based economies the developing countries are amending their IP laws to encourage investment An effort has been made to avoid considering policy in isolation but rather to emphasize the interplay between the policy mix the wider institutional setting market forces and system organization solutions Both empirical and conceptual chapters are included to bring them together and to yield facts and interpretations for the readers This book presents expert opinions by frontier academicians researchers and attorneys on the recent challenges in the rapidly evolving life science industry The present book offers comprehensive knowledge on the contemporary issues in life sciences to a wide range of audiences including students scholars researchers legal practitioners policymakers and others interested in emerging intellectual property issues Features The only compilation available on the contemporary intellectual property issues in life sciences in the post COVID era Focuses on the commercial regulatory bioethical and socio legal implications of patents in life sciences Describes an integrated approach for sustained innovations in various areas of life sciences Discusses the recent IP controversies in a pan global context Presents viewpoints to front line practitioners viz attorneys researchers etc

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