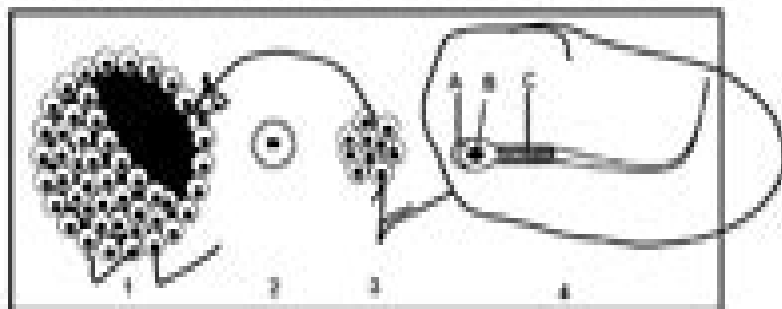


The diagrams below show structures formed during human reproduction.



15.1 Identify part A. (1)

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

15.3 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)

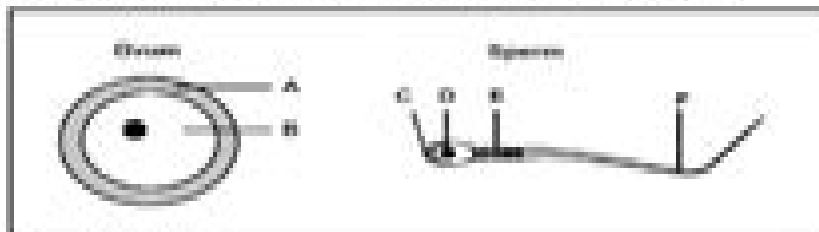
(c) Blastula (blastocyst) (1)

15.4 Give the LETTER and NAME of the part that occurs in the ovum during fertilisation. (2)

15.5 Name the type of cell division that occurred to produce the structures in diagram 5. (1)

QUESTION 16

The diagrams below represent the structures of an ovum and a sperm.



16.1 Identify parts:

(a) A (1)

(b) B (1)

(c) C (1)

16.2 Name the process involving meiosis that leads to the formation of an ovum. (1)

16.3 Write down only the LETTER of the part of the sperm that enters the ovum. (1)

16.4 Write down only the LETTERS of TWO parts that enable the sperm to move towards the ovum. (2)

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concern that AI might eventually replace humans But many developments in AI are designed to enhance and supplement the performance of humans rather than replace them and a novel field of study with new approaches and solutions to the development of AI has arisen to focus on this aspect of the technology This book presents the proceedings of HHAI2023 the 2nd International Conference on Hybrid Human Artificial Intelligence held from 26-30 June 2023 in Munich Germany The HHAI international conference series is focused on the study of artificially intelligent systems that cooperate synergistically proactively responsibly and purposefully with humans amplifying rather than replacing human intelligence and invites contributions from various fields including AI human computer interaction the cognitive and social sciences computer science philosophy among others A total of 78 submissions were received for the main conference track and most papers were reviewed by at least three reviewers The overall final acceptance rate was 43% with 14 contributions accepted as full papers 14 as working papers and 6 as extended abstracts The papers presented here cover topics including interactive hybrid agents hybrid intelligence for decision support hybrid intelligence for health and values such as fairness and trust in hybrid intelligence We further accepted 17 posters and 4 demos as well as 8 students to the first HHAI doctoral consortium this year The authors of 4 working papers and 2 doctoral consortium submissions opted for not publishing their submissions to allow a later full submission resulting in a total of 57 papers included in this proceedings Addressing all aspects of AI systems that assist humans and emphasizing the need for adaptive collaborative responsible interactive and human centered artificial intelligence systems which can leverage human strengths and compensate for human weaknesses while considering social ethical and legal considerations the book will be of interest to all those working in the field

Risk Regulation in Non-Animal Food Imports Francesco Montanari, Veronika Jezsó, Carlo Donati, 2015-01-23 This Brief aims at providing a general understanding of the rationale scientific as well as political behind EU policy and related risk management decisions in the area on non animal food imports Lately various menaces associated with imported food and feed of non animal origin appeared in the media imported sprout seeds contaminated with E coli strawberries containing hepatitis A or noro viruses to name but a few are now as much discussed as the different well known meat scandals The authors explain the reinforced official controls at EU borders on certain imports of non animal origin and the wide range of EU measures that currently foresee trade restrictions for imports presenting chemical and non chemical high risks from a public health perspective so called emergency measures The Brief closely examines chemical and also non chemical risks associated with imports of non animal origin and their impact on human health The authors also consider the role risk analysis is playing to underpin risk management decisions at EU level including the scientific output by the European Food Safety Authority EFSA

Führung und Organisation pharmazeutischer Innovation Oliver Gassmann, Alexander Schuhmacher, Max von Zedtwitz, Gerrit Reepmeyer, 2024-11-12 Dieses Buch untersucht und beleuchtet die wichtigsten Herausforderungen denen sich die pharmazeutische Industrie in einem zunehmend wettbewerbsorientierten Umfeld mit inflationären F&E Investitionen und

verschärfte Kostendruck stellen muss. Die Autoren stellen drei Quellen der pharmazeutischen Innovation vor: neue Managementmethoden in der Arzneimittelentwicklung, neue Technologien als Voraussetzung für Spitzenforschung und -entwicklung und neue Formen der Zusammenarbeit und Internationalisierung wie z. B. Open Innovation in den frühen Phasen der Forschung und Entwicklung. Neue Modelle und Methoden werden anhand von Fallbeispielen aus Europa, den USA und Asien illustriert. Diese dritte vollständig bearbeitete Auflage wurde erweitert um die neuesten Entwicklungen im Bereich der offenen und kollaborativen Innovation, die größere strategische Bedeutung von Risikokapital und Investitionen in der Frühphase sowie die neue Palette an aufkommenden Technologien, die jetzt in der pharmazeutischen Innovation eingesetzt werden zu berücksichtigen.

Smart and Sustainable Planning for Cities and Regions Adriano Bisello, Daniele Vettorato, Richard Stephens, Pietro Elisei, 2016-11-03. This book presents cutting edge work on innovative planning methodologies, tools and experiences aimed at supporting the transition of our cities and regions towards a more smart and sustainable dimension. This book comprises a selection of the best papers presented at the international conference Smart and Sustainable Planning for Cities and Regions 2015 held in November 2015 in Bolzano, Italy. Contributions from different research fields within urban and regional planning from the scientific as well as the professional community are presented: energy planning for cities and regions; how to couple the energy/climate goals with the development or renovation of the built environment and how to tackle the vulnerability to climate change; smart and sustainable technologies; big data; integrated infrastructures and mobility management; from holistic geospatial tools to innovative apps and Internet of Things; benefits, costs and opportunities of urban transition toward a more smart and sustainable dimension; accounting and assessment of values and trade-offs within the decision-making processes; governance for smart and sustainable growth; fostering place-based policy-making; active and effective stakeholders' participation; co-production and public-private partnerships; cooperation and demonstration projects; their role in fostering the adoption of new approaches and technologies towards the development of win-win solutions.

Animal Models for Human Cancer Marianne I. Martic-Kehl, Pius August Schubiger, 2016-05-18. Based on results from the past ten years, this ready reference systematically describes how to prepare, carry out and evaluate animal studies for cancer therapies, addressing the widely recognized lack of reliable and reproducible results. Following a short historical introduction and a discussion of the ethics surrounding animal experiments, the book describes correct study design as well as the handling and housing of animals. It then goes on to describe the animal models available for different cancer types, from natural cancer models in mice and dogs to humanized animals. An evaluation of previously unpublished long-term data from the Swiss canine and feline cancer registry is also included. The final part of the book reviews the lessons learned over the last decade on how to interpret data from animal studies for improving human therapy and gives recommendations for future drug development.

Sustainable Management of Environmental Contaminants Tariq Aftab, 2022-11-04. Environmental contaminants are chemicals that accidentally or deliberately enter the environment, often but not always as a

result of human activities Some of these contaminants may have been manufactured for industrial use and because they are very stable they do not break down easily If released to the environment these contaminants may enter the food chain Other environmental contaminants are naturally occurring chemicals but industrial activity may increase their mobility or increase the amount available to circulate in the environment allowing them to enter the food chain at higher levels than would otherwise occur Environmental contaminants influence the physiological cell reactions at different and heterogeneous basics and lead to altering in normal cell function primarily at the molecular and biochemical level Molecular responses to such common environmental stresses have been studied intensively over the last few years in which there is an intricate network of signaling pathways controlling perception of these environmental stress signals the generation of second messengers and signal transduction Recent advances in many areas of plant and microbial research including genotyping make scientists optimistic that valuable solutions will be found to allow deployment commercialization of strategies better able to tolerate these environmental stresses Environmental remediation was historically viewed as an inherently sustainable activity as it restores contamination however researchers and practitioners are increasingly recognizing that there can be substantial environmental footprints and socioeconomic costs associated with remediation Sustainability is an imperative in the emerging green and sustainable remediation movement which is reshaping the entire remediation industry Understanding the significant roles of sustainable or eco friendly approaches in mitigating environmental contaminants the current subject has recently attracted the attention of scientists from across the globe This comprehensive volume Sustainable Management of Environmental Contaminants Eco friendly Remediation Approaches highlights the various prospects involved in current scenario The current volume comprises the chapters from diverse areas dealing with biotechnology microbial technology nanotechnology molecular biology green and sustainable remediation etc I am hopeful that this volume will furnish the requisite of all those who are working or have interest in the current topic

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