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0610 BIOLOGY

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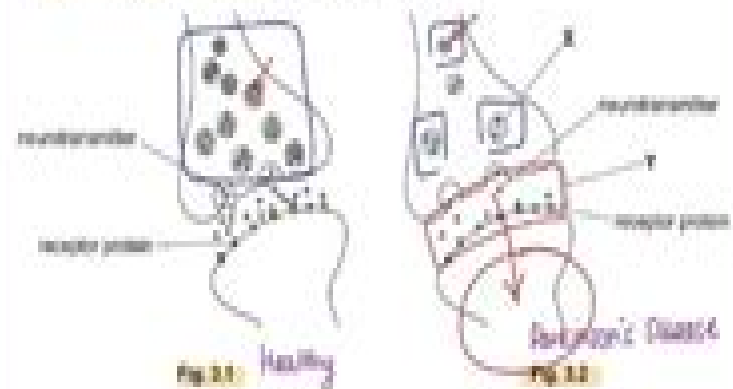
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1 Fig. 3.1 is a diagram of the junction between two neurones in a healthy person.

Fig. 3.2 is a diagram of the junction between the same two neurones in a person who has **Parkinson's disease**. This disease affects the nervous system.



(a) Identify the parts labelled X and Y in Fig. 3.2.

X vesicles

Y Synaptic gap

(1)

(b) Parkinson's disease affects neurones in the brain that are responsible for movement.

Using the information in Fig. 3.1 and Fig. 3.2 compare and explain the effect of Parkinson's disease on a person's movement.

- Parkinson's patient has fewer vesicles [1 mark]
 fewer neurotransmitter inside the vesicles [1 mark]
 and fewer neurotransmitter are released [1 mark]
- fewer impulses in the post-synaptic neurone [1 mark]
 leading to fewer movement in the patient [1 mark]

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Cancer Bioinformatics Ying Xu, Juan Cui, David Puett, 2014-08-30 This book provides a framework for computational researchers studying the basics of cancer through comparative analyses of omic data It discusses how key cancer pathways can be analyzed and discovered to derive new insights into the disease and

identifies diagnostic and prognostic markers for cancer Chapters explain the basic cancer biology and how cancer develops including the many potential survival routes The examination of gene expression patterns uncovers commonalities across multiple cancers and specific characteristics of individual cancer types The authors also treat cancer as an evolving complex system explore future case studies and summarize the essential online data sources Cancer Bioinformatics is designed for practitioners and researchers working in cancer research and bioinformatics It is also suitable as a secondary textbook for advanced level students studying computer science biostatistics or biomedicine

Intellectual Property and the Design of Nature Jose Bellido,Brad Sherman,2023-08-24 Intellectual property law has been interacting with nature for over two centuries Despite this long history this relationship has largely been ignored Intellectual Property and the Design of Nature fills this gap by bringing together scholars from different disciplines to examine the important role that nature plays in intellectual property law Based on the idea that many contemporary issues require a better understanding of these historical interactions the book reflects on the ways intellectual property law has engaged with and understood nature in the past The varied contributions show how the relationship between nature and intellectual property law is often more complex permeable and porous than is commonly recognized Intellectual Property and the Design of Nature demonstrates the complex and changing role that nature has played in the history of intellectual property law Each of the chapters casts a new light on these connections A compelling read for everyone interested in exploring new perspectives in the field of intellectual property

Coronary Artery Disease James T. Willerson,David R. Holmes, Jr.,2015-03-11 Cardiovascular Medicine Coronary Artery Disease will offer today s most up to date user friendly guidance on the evaluation diagnosis and medical and surgical treatment of this most important aspect of cardiovascular disease and will be on the wish list for every trainee and practising cardiologist cardiac surgeon vascular surgeon diabetologist cardiac radiologist and any physician who manages cardiac patients The book is dedicated to providing comprehensive coverage of every aspect of coronary arterial medicine from cardiac signs and symptoms through imaging and the genetic basis for coronary disease to surgery interventions treatment and also to preventive cardiology The Editor and a group of contributing world authorities offer their decades of scientific and clinical experience A major selling point is the consistent chapter organization clear design and engaging text that includes user friendly features such as tables lists and treatment boxes The reader will have all the guidance to diagnose and manage a full range of conditions in a series of textbook resources while also having access to additional video material from the integral website

Nucleic Acids as Gene Anticancer Drug Delivery Therapy Loutfy H. Madkour,2019-08-27 Nucleic Acids as Gene Anticancer Drug Delivery Therapy highlights the most recent developments in cancer treatment using nucleic acids nanoparticles and polymer nanoparticles for genomic nanocarriers as drug delivery including promising opportunities for targeted and combination therapy The development of a wide spectrum of nanoscale technologies is beginning to change the scientific landscape in terms of disease diagnosis treatment and prevention This book presents the

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Handbook of Nanomaterials for Industrial Applications Chaudhery Mustansar Hussain,2018-07-19 Handbook of Nanomaterials for Industrial Applications explores the use of novel nanomaterials in the industrial arena The book covers nanomaterials and the techniques that can play vital roles in many industrial procedures such as increasing sensitivity magnifying precision and improving production limits In addition the book stresses that these approaches tend to provide green sustainable solutions for industrial developments Finally the legal economical and toxicity aspects of nanomaterials are covered in detail making this is a comprehensive important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in modern industry Demonstrates how cutting edge developments in nanomaterials translate into real world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal economical and toxicity issues arising from the industrial applications of nanomaterials

Undisciplining Knowledge Harvey J. Graff,2015-08-01 The first critical history of interdisciplinary efforts and movements in the modern university Interdisciplinarity or the interrelationships among distinct fields disciplines or branches of knowledge in pursuit of new answers to pressing problems is one of the most contested topics in higher education today Some see it as a way to break down the silos of academic departments and foster creative interchange while others view it as a destructive force that will diminish academic quality and destroy the university as we know it In Undisciplining Knowledge acclaimed scholar Harvey J Graff presents readers with the first comparative and critical history of interdisciplinary initiatives in the modern university Arranged chronologically the book tells the engaging story of how various academic fields both embraced and fought off efforts to share knowledge with other scholars It is a story of myths exaggerations and misunderstandings on all sides Touching on a wide variety of disciplines including genetic biology sociology the humanities communications social relations operations research cognitive science materials science nanotechnology cultural studies literacy studies and biosciences the book examines the ideals theories and practices of interdisciplinarity through comparative case studies Graff interweaves this narrative with a social

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Proceedings of the 2014 Energy Materials Conference The Minerals, Metals & Materials Society (TMS), 2015-04-06 This DVD contains a collection of papers presented at EnergyMaterials 2014 a conference organized jointly by The ChineseSociety for Metals CSM and The Minerals Metals MaterialsSociety TMS and held November 4 6 2014 in Xi an ShaanxiProvince China With the rapid growth of the world s energyproduction and consumption the important role of energy materialshas achieved worldwide acknowledgement Material producers andconsumers constantly seek the possibility of increasing strength improving fabrication and service performance simplifyingprocesses and reducing costs Energy Materials 2014 has provided aforum for academics researchers and engineers around the world toexchange state of the art development and information on issuesrelated to energy materials The papers on the DVD are organized around the followingtopics Materials for Coal Based Systems Materials for Gas Turbine Systems Materials for Nuclear Systems Materials for Oil and Gas Materials for Pressure Vessels

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