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Nanocomposites for Musculoskeletal Tissue Regeneration-Huinan Liu 2016-02-23 Nanocomposites for Musculoskeletal Tissue Regeneration discusses the advanced biomaterials scientists are exploring for use as tools to mimic the structure of musculoskeletal tissues. Bone and other musculoskeletal tissues naturally have a nanocomposite structure, therefore nanocomposites are ideally suited as a material for replacing and regenerating these natural tissues. In addition, biological properties such as biointegration and the ability to tailor and dope the materials make them highly desirable for musculoskeletal tissue regeneration. Provides a comprehensive discussion on the design and advancements made in the use of nanocomposites for musculoskeletal tissue regeneration Presents an In-depth coverage of material properties Includes discussions on polymers, ceramics, and glass

Myelin-Mediated Inhibition of Axonal Regeneration: Past, Present, and Future-Sari Hannila 2017-07-06 Pioneering studies conducted in the 1980’s laid the foundation for the hypothesis that axonal regeneration is limited by CNS myelin, and the identification of myelin-associated glycoprotein (MAG), Nogo, and oligodendrocyte myelin glycoprotein (OMgp) as inhibitors of neurite outgrowth firmly established myelin as a key factor in regenerative failure. Mechanistically, it has been shown that MAG, Nogo, and OMgp mediate inhibition by binding to either Nogo receptor (NgR) or paired immunoglobulin receptor B (PirB), and initiating a signaling cascade that culminates in the activation of RhoA. Since the discovery of these proteins, there has been tremendous interest in identifying compounds and molecular mechanisms that are capable of overcoming myelin-mediated inhibition. Many studies have focused on pharmacological antagonism of receptors and signaling intermediates, while others have sought to identify and enhance endogenous pro-regenerative pathways. The most notable example of the latter is the conditioning lesion effect, which led to the discovery of cyclic AMP’s ability to overcome inhibition by MAG and myelin. Many of the agents tested in these studies have been shown to promote axonal regeneration in vivo, and this research topic allows researchers to share information about new treatments that have been developed in both academia and industry. As we look toward the future, it is becoming increasingly clear that reversal of myelin-mediated inhibition alone will not be sufficient to produce functional recovery from spinal cord injury, and that other factors, such as astroglial scarring, the expression of chondroitin sulfate proteoglycans, neuronal cell death, and lack of neurotrophic support, must also be taken into consideration. Combinatorial approaches therefore hold a great deal of promise, and we hope to initiate a dialogue on how stem cell transplantation, chondroitinase ABC, gene therapy, growth-promoting agents, and other methods can be combined to optimize functional recovery. We introduce this topic in honor of the life and work of Dr. Marie T. Filbin (1955-2014). Through these articles, we highlight past achievements in the field, novel findings, unanswered questions and innovative ideas that we hope will lead to new advances in axonal regeneration.

Self Healing Materials-S. van der Zwaag 2015-11-01 In 2006 the Dutch government funded an 8 year and 20 million euro research program on Self Healing Materials. The research was not to be restricted to one material class or one particular healing approach. It was to explore all opportunities to create self healing behavior in engineering and functional materials and to bring the new materials to a level where they could be tested in real life applications. At its launch, the IOP program was the very first integrated multi-material approach to this field in the world. The research was to be conducted at Dutch universities working in collaboration with industry. With the IOP Self Healing Materials program coming to an end, this book presents the highlights of the pioneering research in the field of self healing materials in the Netherlands. Given the diversity of topics addressed, the book will be of value to all materials scientists working in the field of materials and materials by design in particular, as well as industrial engineers and developers with an interest in increasing the reliability and reducing the maintenance of their products. The book will also be an inspiration to students and show them how an unspecified concept of self healing can be translated to new materials with exceptional behavior.

Translational Regenerative Medicine-Anthony Atala 2014-12-01 Translational Regenerative Medicine is a reference book that outlines the life cycle for effective implementation of discoveries in the dynamic field of regenerative medicine. By addressing science, technology, development, regulatory, manufacturing, intellectual property, investment, financial, and clinical aspects of the field, this work takes a holistic look at the translation of science and disseminates knowledge for practical use of regenerative medicine tools, therapeutics, and diagnostics. Incorporating contributions from leaders in the fields of translational science across academia, industry, and government, this book establishes a more fluid transition for rapid translation of research to enhance human health and well-being. Provides formulaic coverage of the landscape, process development, manufacturing, challenges, evaluation, and regulatory aspects of the most promising regenerative medicine clinical applications Covers clinical aspects of regenerative medicine related to skin, cartilage, tendons, ligaments, joints, bone, fat, muscle, vascular system, hematopoietic /immune system, peripheral nerve, central nervous system, endocrine system, ophthalmic system, auditory system, oral system, respiratory system, cardiac system, renal system, hepatic system, gastrointestinal system, genitourinary system Identifies effective, proven tools and metrics to identify and pursue clinical and commercial regenerative medicine

Physico-Chemical Control of Cell Function-Cesare Gargioli 2019-10-17 Extracellular Matrix (ECM) has been considered for a long time merely a scaffold sustaining cell and tissue function. Despite this simplistic view shared by many, nowadays ECM and their mechanic-physical and chemical characteristic acquired a progressive larger role actively regulating cell life: survival, proliferation, gene expression and differentiation. The interplay between cells and the ECM is continuously controlled at the cell level in a dynamic way. While cells synthesize the raw components of the ECM, this in turn impacts on cell function by providing chemical, topographical and mechanical hints. Such stimuli have been proven to control several aspects of cell function, including survival, proliferation, differentiation and migration. The molecular pathways activated by cells in response to the physical cues arising from the ECM are being disclosed and thus the possibility to control cell function through materials design is becoming more realistic. Current in vitro protocols, relying in 2D cell culture system, entail reductionist approaches to the complexity of cell-ECM interaction and result in cells rapidly losing their distinctive functions in culture. Understanding and replicating the 3D microenvironmental cues affecting cell function appears as a mandatory requirement for the development of next-generation biomaterials, as well as for the establishment of more physiologically relevant and predictive in vitro models of diseases. Such an effort will require a multidisciplinary approach at the convergence of biophysics, biology, nanotechnology, and bioengineering.

Chemical Engineering Division Summary Report-Stephen Lawroski 1961 Pp. 11.

Museum Hack’s Guide to History’s Fiercest Females-Hayley Milliman 2018-10-02 Remember when feminism happened, and tons of scholars banded together and rewrote the history books to include the accomplishments thousands of women whose badassery had been ignored for thousands of years? JK, JK. The representation of women is still super bad! With their trademark irreverence and penchant for storytelling, the team from Museum Hack has united to present: Museum Hack’s Guide to History’s Fiercest Females. Because the future is female and guess what? The past was hella female, too! Enclosed in this one-of-a-kind book are 26 stories of amazing women from all corners of the earth who probably weren't included in your high school history book... but definitely should have been! Get ready to join the revolution! (Or, keep revolution-ing! We support your journey wherever you are).

Cambridge International AS and A Level Chemistry Coursebook with CD-ROM-Lawrie Ryan 2014-07-31 Fully revised and updated content matching new Cambridge International Examinations 9701 syllabus for first examination in 2016. Endorsed by Cambridge International Examinations, this digital edition comprehensively covers all the knowledge and skills students need during the A Level Chemistry course (9701), for first examination in 2016, in a reflowable format, adapting to any screen size or device. Written by renowned experts in Chemistry teaching, the text is written in an accessible style with international learners in mind. Self-assessment questions allow learners to track their progress, and exam-style questions help learners to prepare thoroughly for their examinations. Answers to all the questions from within the Coursebook are provided.

Government reports annual index- 199?

Piezoresistor Design and Applications-Joseph C. Doll 2013-10-30 Piezoresistor Design and Applications provides an overview of these MEMS devices and related physics. The text demonstrates how MEMS allows miniaturization and integration of sensing as well as efficient packaging and signal conditioning. This text for engineers working in MEMS design describes the piezoresistive phenomenon and optimization in several applications. Includes detailed discussion of such topics as; coupled models of mechanics, materials and electronic behavior in a variety of common geometric implementations including strain gages, beam bending, and membrane loading. The text concludes with an up-to-date discussion of the need for integrated MEMS design and opportunities to leverage new materials, processes and MEMS technology. Piezoresistor Design and Applications is an ideal book for design engineers, process engineers and researchers.

Biomaterials for Skin Repair and Regeneration-Elena Garcia-Gareta 2019-06-05 Biomaterials for Skin Repair and Regeneration examines a range of materials and technologies used for regenerating or repairing skin. With a strong focus on biomaterials and scaffolds, the book also examines the testing and evaluation pathway for human clinical trials. Beginning by introducing the fundamentals on skin tissue, the book goes on to describe contemporary technology used in skin repair as well as currently available biomaterials suitable for skin tissue repair and regeneration. Skin tissue engineering and the ideal requirements to take into account when developing skin biomaterials are discussed, followed by information on the individual materials used for skin repair and regeneration. As evaluation of biomaterials in animal models is mandatory before proceeding into human clinical trials, the book also examines the different animal models available. With a strong focus on materials, engineering, and application, this book is a valuable resource for materials scientists, skin biologists, and bioengineers with an interest in tissue engineering, regeneration, and repair of skin. Provides an understanding of basic skin biology Comprehensively examines a variety of biomaterial approaches Looks at animal models for the evaluation of biomaterial-based skin constructs

Bone Tissue Engineering-Jeffrey O. Hollinger 2004-10-14 Focusing on bone biology, Bone Tissue Engineering integrates basic sciences with tissue engineering. It includes contributions from world-renowned researchers and clinicians who discuss key topics such as different models and approaches to bone tissue engineering, as well as exciting clinical applications for patients. Divided into four sections, t

Undead Regeneration-Rebecca Besser 2015-06-26 The zombie is gone...finally and truly dead. John and Ky try to get on with their lives, but they can't. They are haunted by the past and it's tearing apart their future. With no other options, they go undercover where Sam had worked before he came home...undead: ReGen. They struggle with their circumstances, their fears, and their relationship as they fight to tame their nightmares and create a happy and healthy future together.

Student-staff Directory-University of Illinois at Urbana-Champaign 1979

Neoplasia and Cell Differentiation-Gajanan V. Sherbet 1974

Who's who in Germany- 1972 Vols. for 1956- include a separately paged section: Directory of organizations, associations and institutions.

Peripheral Nerve Regeneration-Giovanna Gambarotta 2019-12-24

Yearbook of International Organizations- 2011 Beginning in 1983/84 published in 3 vols., with expansion to 6 vols. by 2007/2008: vol. 1--Organization descriptions and cross references; vol. 2--Geographic volume: international organization participation; vol. 3--Subject volume; vol. 4--Bibliography and resources; vol. 5--Statistics, visualizations and patterns; vol. 6--Who's who in international organizations. (From year to year some slight variations in naming of the volumes).

Restoration Agriculture-Mark Shepard 2013-01-01

Standard & Poor's Stock Reports- 2006-04

Why Forests? Why Now?-Frances Seymour 2016-12-27 Tropical forests are an undervalued asset in meeting the greatest global challenges of our time—averting climate change and promoting development. Despite their importance, tropical forests and their ecosystems are being destroyed at a high and even increasing rate in most forest-rich countries. The good news is that the science, economics, and politics are aligned to support a major international effort over the next five years to reverse tropical deforestation. Why Forests? Why Now? synthesizes the latest evidence on the importance of tropical forests in a way that is accessible to anyone interested in climate change and development and to readers already familiar with the problem of deforestation. It makes the case to decisionmakers in rich countries that rewarding developing countries for protecting their forests is urgent, affordable, and achievable.

Nanotechnology and Plant Sciences-Manzer H. Siddiqui 2015-01-27 This book presents a holistic view of the complex and dynamic responses of plants to nanoparticles, the signal transduction mechanisms involved, and the regulation of gene expression. Further, it addresses the photosynthesis of nanoparticles, the role of nanoparticles in the antioxidant systems of plants and agriculture, the beneficial and harmful effects of nanoparticles on plants, and the application of nanoparticles and nanotubes to mass spectrometry, aiming ultimately at an analysis of the metabolomics of plants. The growing numbers of inventions in the field of nanotechnology are producing novel applications in the fields of biotechnology and agriculture. Nanoparticles have received much attention because of the unique physico-chemical properties of these compounds. In the life sciences, nanoparticles are used as “smart” delivery systems, prompting the Nobel Prize winner P. Ehrlich to refer to these compounds as “magic bullets.” Nanoparticles also play an important role in agriculture as compound fertilizers and nano-pesticides, acting as chemical delivery agents that target molecules to specific cellular organelles in plants. The influence of nanoparticles on plant growth and development, however, remains to be investigated. Lastly, this book reveals the research gaps that must be bridged in the years to come in order to achieve larger goals concerning the applications of nanotechnology in the plants sciences. In the 21st century, nanotechnology has become a rapidly emerging branch of science. In the world of physical sciences, nanotechnological tools have been exploited for a broad range of applications. In recent years, nanoparticles have also proven useful in several branches of the life sciences. In particular, nanotechnology has been employed in drug delivery and related applications in medicine.

Permanent Magnet Synchronous Machines-Sandra Eriksson 2019-08-20 Interest in permanent magnet synchronous machines (PMSMs) is continuously increasing worldwide, especially with the increased use of renewable energy and the electrification of transports. This book contains the successful submissions of fifteen papers to a Special Issue of Energies on the subject area of “Permanent Magnet Synchronous Machines”. The focus is on permanent magnet synchronous machines and the electrical systems they are connected to. The presented work represents a wide range of areas. Studies of control systems, both for permanent magnet synchronous machines and for brushless DC motors, are presented and experimentally verified. Design studies of generators for wind power, wave power and hydro power are presented. Finite element method simulations and analytical design methods are used. The presented studies represent several of the different research fields on permanent magnet machines and electric drives.

Tissue Engineering and Regeneration in Dentistry-Rachel J. Waddington 2016-11-18 Tissue Engineering and Regeneration in Dentistry: Current Strategies presents a thorough update on the current advances, methods and understanding in tissue engineering in dentistry. It offers invaluable tools, case studies, and methodologies for undertaking research, including important biological and practical considerations to facilitate successful migration of research from the bench to the clinic. Offers detailed coverage of the basic underlying principles and scientific evidence, and includes protocols to highlight practical applications Written by an internationally renowned team of expert contributors A must-have read for researchers and specialist clinicians in tissue engineering, oral biology, dental materials science, periodontology and oral surgery

Who's who in Finance and Industry-Marquis Who's Who, LLC 1985-07

Sugarcane-Paul H. Moore 2013-12-06 Physiology of Sugarcane looks at the development of a suite of well-established and developing biofuels derived from sugarcane and cane-based co-products, such as bagasse. Chapters provide broad-ranging coverage of sugarcane biology, biotechnological advances, and breakthroughs in production and processing techniques. This single volume resource brings together essential information to researchers and industry personnel interested in utilizing and developing new fuels and bioproducts derived from cane crops.

Mercury Handbook-L F Kozin 2013-10-15 Mercury has many applications in scientific research and industry from amalgams for dental restoration to light bulbs. Developed from a combination of material originally published in Russian and the authors' research knowledge, this book provides a comprehensive treatise on the chemistry and metallurgy of amalgams. Coverage includes analysis, physico-chemical properties, electrochemistry, purification, inorganic and organic mercury chemistry, industrial application and synthesis and environmental aspects of mercury. This book provides a thorough understanding of amalgam metallurgy which is essential for academics, industrialists and postgraduates working in relevant fields. Guaranteed to bring a wealth of information, this book will be a welcome addition to the literature.

Cardiac Regeneration-Masaki Ieda 2017-10-27 This Volume of the series Cardiac and Vascular Biology offers a comprehensive and exciting, state-of-the-art work on the current options and potentials of cardiac regeneration and repair. Several techniques and approaches have been developed for heart failure repair: direct injection of cells, programming of scar tissue into functional myocardium, and tissue-engineered heart muscle support. The book introduces the rationale for these different approaches in cell-based heart regeneration and discusses the most important considerations for clinical translation. Expert authors discuss when, why, and how heart muscle can be salvaged. The book represents a valuable resource for stem cell researchers, cardiologists, bioengineers, and biomedical scientists studying cardiac function and regeneration.

National Agricultural Library Catalog-National Agricultural Library (U.S.) 1972

Sabiston. Tratado de cirugía + ExpertConsult-Courtney M. Townsend Jr. 2013-05-24 Nueva edición de la obra de referencia en cirugía dirigida a profesionales involucrados en procedimientos quirúrgicos en cualquiera de sus vertientes. Contiene información totalmente actualizada de gran ayuda para reforzar la toma de decisiones clínicas y contribuir a una mejor planificación del tratamiento quirúrgico más adecuado. Incorpora nuevos capítulos y un acceso a la web [www.expertconsult.com](http://www.expertconsult.com) en la cual se podrá consultar el texto completo on line y una colección de 30 vídeos. Entre las novedades temáticas se recogen los avances en cirugía de reconstrucción de la pared abdominal, inmunoterapia e inmunología de tumores, enfermedad vascular periférica, medicina regenerativa, trasplante de hígado, trasplante de riñón y páncreas, cirugía robótica y cirugía mínimamente invasiva y otras áreas destacadas dentro del ámbito de la cirugía.

Genetic and Genomic Resources of Grain Legume Improvement-Mohar Singh 2013-07-18 Grain legumes, including common-bean, chickpea, pigeonpea, pea, cowpea, lentil and others, form important constituents of global diets, both vegetarian and non-vegetarian. Despite this significant role, global production has increased only marginally in the past 50 years. The slow production growth, along with a rising human population and improved buying capacity has substantially reduced the per capita availability of food legumes. Changes in environmental climate have also had significant impact on production, creating a need to identify stable donors among genetic resources for environmentally robust genes and designing crops resilient to climate change. Genetic and Genomic Resources of Grain Legume Improvement is the first book to bring together the latest resources in plant genetics and genomics to facilitate the identification of specific germplasm, trait mapping and allele mining to more effectively develop biotic and abiotic-stress-resistant grains. This book will be an invaluable resource for researchers, crop biologists and students working with crop development. Explores origin, distribution and diversity of grain legumes Presents information on germplasm collection, evaluation and maintenance Offers insight into pre-breeding/germplasm enhancement efforts Integrates genomic and genetic resources in crop improvement Internationally contributed work

Organic Chemistry-L. G. Wade 2013 Acclaimed for its clarity and precision, Wade's Organic Chemistry maintains scientific rigor while engaging students at all levels. Wade presents a logical, systematic approach to understanding the principles of organic reactivity and the mechanisms of organic reactions. This approach helps students develop the problem-solving strategies and the scientific intuition they will apply throughout the course and in their future scientific work. The Eighth Edition provides enhanced and proven features in every chapter, including new Chapter Goals, Essential Problem-Solving Skills and Hints that encourage both majors and non-majors to think critically and avoid taking "short cuts" to solve problems. Mechanism Boxes and Key Mechanism Boxes strengthen student understanding of Organic Chemistry as a whole while contemporary applications reinforce the relevance of this science to the real world. NOTE: This is the standalone book Organic Chemistry, 8/e if you want the book/access card order the ISBN below: 0321768140 / 9780321768148 Organic Chemistry Plus MasteringChemistry with eText -- Access Card Package Package consists of: 0321768418 / 9780321768414 Organic Chemistry 0321773799 / 9780321773791 MasteringChemistry with Pearson eText -- Valuepack Access Card -- for Organic Chemistry

Dictionary Catalog of the Department Library-United States. Department of the Interior. Library 1967

Mechanobiology of Cell-Cell and Cell-Matrix Interactions-A. Wagoner Johnson 2011-02-21 Mechanobiology of Cell-Matrix Interactions focuses on characterization and modeling of interactions between cells and their local extracellular environment, exploring how these interactions may mediate cell behavior. Studies of cell-matrix interactions rely on integrating engineering, (molecular and cellular) biology, and imaging disciplines. Recent advances in the field have begun to unravel our understanding of how cells gather information from their surrounding environment, and how they interrogate such information during the cell fate decision making process. Topics include adhesive and integrin-ligand interactions; extracellular influences on cell biology and behavior; cooperative mechanisms of cell-cell and cell-matrix interactions; the mechanobiology of pathological processes; (multi-scale) modeling approaches to describe the complexity of cell-matrix interactions; and quantitative methods required for such experimental and modeling studies.

Biocatalysis and Pharmaceuticals: A Smart Tool for Sustainable Development- Andres R Alcantara 2019-10-30 Biocatalysis, that is, the use of biological catalysts (enzymes, cells, etc.) for the preparation of highly valuable compounds is undergoing a great development, being considered an extremely sustainable approach to undertaking environmental demands. In this scenario, this book illustrates the versatility of applied biocatalysis for the preparation of drugs and other bioactive compounds through the presentation of different research articles and reviews, in which several authors describe the most recent developments in this appealing scientific area. By reading the excellent contributions gathered in this book, it is possible to have an updated idea about new advances and possibilities for a new exciting future.

Molecular Devices for Solar Energy Conversion and Storage-Haining Tian 2017-09-14 This book shows the different molecular devices used for solar energy conversion and storage and the important characterization techniques for this kind of device. It has five chapters describing representative molecule-based solar cells, such as organic solar cells, dye-sensitized solar cells and hybrid solar cells (perovskite solar cell and quantum dots solar cells). It also includes two chapters demonstrating the use of molecular devices in the areas of solar fuel, water splitting and carbon dioxide reduction. There are further two chapters with interesting examples of solar energy storage related devices, like solar flow battery, solar capacitor and solar energy-thermal energy storage. Three chapters introduce important techniques used to characterize, investigate and evaluate the mechanism of molecular devices. The final chapter discusses the stability of perovskite solar cells. This book is relevant for a wide readership, and is particularly useful for students, researchers and industrial professionals who are working on molecular devices for solar energy utilization.

Introduction to Chemical Engineering Thermodynamics-J M Smith 2021-02

Biomaterials Science-Buddy D. Ratner 2004-08-18 The second edition of this bestselling title provides the most up-to-date comprehensive review of all aspects of biomaterials science by providing a balanced, insightful approach to learning biomaterials. This reference integrates a historical perspective of materials engineering principles with biological interactions of biomaterials. Also provided within are regulatory and ethical issues in addition to future directions of the field, and a state-of-the-art update of medical and biotechnological applications. All aspects of biomaterials science are thoroughly addressed, from tissue engineering to cochlear prostheses and drug delivery systems. Over 80 contributors from academia, government and industry detail the principles of cell biology, immunology, and pathology. Focus within pertains to the clinical uses of biomaterials as components in implants, devices, and artificial organs. This reference also touches upon their uses in biotechnology as well as the characterization of the physical, chemical, biochemical and surface properties of these materials. Provides comprehensive coverage of principles and applications of all classes of biomaterials Integrates concepts of biomaterials science and biological interactions with clinical science and societal issues including law, regulation, and ethics Discusses successes and failures of biomaterials applications in clinical medicine and the future directions of the field Cover the broad spectrum of biomaterial compositions including polymers, metals, ceramics, glasses, carbons, natural materials, and composites Endorsed by the Society for Biomaterials

Handbook of Climate Change Mitigation-Wei-Yin Chen 2012-02-13 There is a mounting consensus that human behavior is changing the global climate and its consequence could be catastrophic. Reducing the 24 billion metric tons of carbon dioxide emissions from stationary and mobile sources is a gigantic task involving both technological challenges and monumental financial and societal costs. The pursuit of sustainable energy resources, environment, and economy has become a complex issue of global scale that affects the daily life of every citizen of the world. The present mitigation activities range from energy conservation, carbon-neutral energy conversions, carbon advanced combustion process that produce no greenhouse gases and that enable carbon capture and sequestration, to other advanced technologies. From its causes and impacts to its solutions, the issues surrounding climate change involve multidisciplinary science and technology. This handbook will provide a single source of this information. The book will be divided into the following sections: Scientific Evidence of Climate Change and Societal Issues, Impacts of Climate Change, Energy Conservation, Alternative Energies, Advanced Combustion, Advanced Technologies, and Education and Outreach.

Reproduction and Development in Platyhelminthes-T. J. Pandian 2020-01-28 This book is a comprehensive elucidation on aspects of reproduction and development in platyhelminthes covering from acoelids to taeniids. With the unique presence of neoblasts, turbellarians serve as a model for studies on cancer and senescence. Of ~ 27,000 species, ~ 77% are parasites; they are harmful to man and his food basket from livestock and fish. The stress hormone, cortisol level is responsible for susceptibility and resistance of the host. In digeneans, the propagatory multiplication potency is retained by all the larval forms and in either direction in sporocyst. The higher clonal diversity, mixing and selection in Second Intermediate Host (SIH) may purge inbreeding depression suffered by the fluke on propagatory multiplication in First Intermediate Host (FIH). Of 12,012 digeneans, 88% may engage 33,014 potential SIH species. They have the choice to select one among the available/awaiting 3.5 host species. The motility of vertebrate host and euryxenic flexibility/scope for selection of SIH species has increased lineage diversification in digeneans. The life cycle of cestodes is divided into aquatic and terrestrial patterns. The former includes (i) oncosphere and (ii) coracidium types and the latter (iii) hexacanth-cysticercoid, (iv) hexacanth-tetrathyridium and (v) hexacanth-cysticercus types. The share for the oncosphere, coracidium and hexacanth types is 17.0, 29.5 and 46.5%, respectively. The staggering fecundity and adoption of the intermediate host in the herbivorous/insectivorous food chain have enriched Taenioidea as the most (2,264) speciose order. Sex specific genes Smed-dmd 1 and machol have been identified, and neuropeptides and dipeptides are involved in sexualization. Trematodes are unable to parasitize elasmobranchs, as they cannot suck body fluid/blood containing a high level of urea. Relatively higher fecundity supplemented with propagatory multiplication, incorporation of SIH in 88% species, clonal selection in SIH, and euryxenic flexibility and the widest choice for selection of SIH have led to the highest lineage diversification to render digeneans as the most speciose order in Platyhelminthes.

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