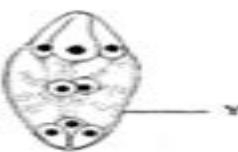


উচ্চমাধ্যমিক জীববিজ্ঞান ১ম পত্র

অধ্যায়-১০: উত্তীর্ণ প্রজনন



পৃষ্ঠা ২০১/১

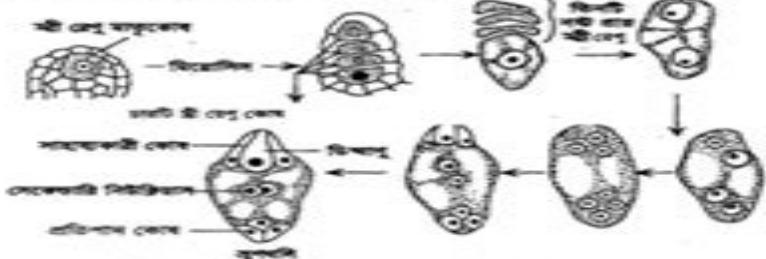
ক. প্রোক্রিয়ালাস কী? ১
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১. নথ প্রয়োজন উত্তীর্ণ

ক. কাণ্ডের লিঙ্গাধর বা প্রার্থনোজোফাইটিক পর্যায়ের স্থৰ্পণাকার সমূজ উত্তীর্ণ সেবাই যলো প্রোক্রিয়ালাস।

খ. নিষেক ঘাড়া তিখাপু থেকে সুল সৃষ্টি তথ্য নতুন জীবের সৃষ্টির প্রস্তুতিকে প্রার্থনোজোজেনেসিস বলে। বোলতা, মৌমাছি, রংতিকার ইত্যাদি প্রাণিদেহে এবং স্পাইরোপার্সিয়া, মিটিকর, কার্ন প্রক্রিতি উত্তীর্ণদেহে এবং ধরনের অন্তর প্রতিবন্ধিত হয়। প্রার্থনোজোজেনেসিস দুর্ব্লকর। যথাযথভাবে প্রার্থনোজোজেনেসিস ও তিখায়েত প্রার্থনোজোজেনেসিস।

গ. উত্তীর্ণকে উত্তীর্ণিত '৪' চিত্রিত অংশটি যলো কী প্রার্থনোজোফাইট, কী প্রার্থনোজোফাইট সৃষ্টির বিভিন্ন ধাপ চিত্রসহ বর্ণনা করো যলো—



চিত্র : কী প্রার্থনোজোফাইট সৃষ্টির বিভিন্ন ধাপ

চিত্রকের অভ্যন্তরে স্থৰ্পণাক চিহ্নের মাঝে একটি চিহ্নকের জীবের স্থৰ্পণাকার (2n) বিভেদিসিস বিভক্তদের মাধ্যমে চারটি অ্যাপোড (n) জীবের স্থৰ্পণ করে। এদের মধ্যে তিনিটি নতুন যথে যাব এবং একটি মাত্র কার্যকর থাকে। কার্যকর জীবের পুরুষ নিউক্লিয়াসটি মাইটোসিস বিভক্তদের মাধ্যমে সুল নিউক্লিয়াসে প্রতিপন্থ হয়ে জীবের কেন্দ্রের সু-স্বেচ্ছাত অবস্থান নেয়। প্রতিটি স্বেচ্ছু নিউক্লিয়াস পরপর সু-স্বেচ্ছাত প্রতিপন্থ মাত্রে অভ্যন্তরে নিউক্লিয়াস প্রটিন করে। জীবের সেকেন্টারি সু-স্বেচ্ছাত প্রতিপন্থ মাত্রে অভ্যন্তরে প্রতিপন্থ হয় এবং এর প্রতি স্বেচ্ছে চারটি করে সেটি অটো নিউক্লিয়াস অবস্থান করে যথেক সুল থালি বলে। এ অবস্থার সু-স্বেচ্ছে থেকে একটি নিউক্লিয়াস মাঝখানে পরাম্পর মিলিত হয়ে সেকেন্টারী নিউক্লিয়াস প্রটিন করে। স্থৰ্পণাক মধ্যে চিকিৎসকদের নিকে তিনিটি নিউক্লিয়াসকে সামাজ্যাকারী নিউক্লিয়াস এবং চিকিৎসকের নিকে তিনিটি নিউক্লিয়াসকে প্রতিপন্থ নিউক্লিয়াস এবং সুলবলি, তিখাপু, সামাজ্যাকারী নিউক্লিয়াস, প্রতিপন্থ নিউক্লিয়াস ও সেকেন্টারী নিউক্লিয়াসকে সামাজিকভাবে কী প্রার্থনোজোফাইট বলে। এভাবেই কী প্রার্থনোজোফাইট সৃষ্টির প্রক্রিয়াটি সম্পূর্ণ হয়।

ঘ. উত্তীর্ণকে উত্তীর্ণিত চিত্রটি যলো তিখাকের অভ্যন্তরে একটি সুলালি স্থৰ্পণাক এর বিভিন্ন অংশের নিষেকেকার পরিপন্থি বিবরণ করো যলো—

নিষেকের পর তিখাকরণ্ত পরিবর্তিত হয়ে বীজরস্ত পরিপন্থ হয়। তিখাক নাড়ী পরিবর্তিত হয়ে বীজবৃত্ত পরিপন্থ হয়। একাইন ও ইন্টাইনে পরিবর্তিত হয়ে বীজবৃত্তে টেলিস ও টেলিমেল তৈরি করে। নিষেকের পরে গুণপোষক বা নিউক্লিয়াস নষ্ট হয়ে যাব অথবা প্রেসিপ্রোব্রে পরিপন্থ হয়। সামাজ্যাকারী কোষ এবং প্রতিপন্থ কোষ নষ্ট হয়ে যাব। নিষেকের পরে গুণপোষক পরিবর্তিত হয়ে ফলতুক হয়। গুণপোষক প্রাচীর পরিবর্তিত হয়ে তৈরি হয়। তিখাকের বিহিতক সুলালক হ্রাসকরণ এবং তিখাক হ্রাসকরণ হয়ে বীজ বৈশিষ্ট্যক এবং তিখাক অন্তর্ভুক্ত সুলালক হয়ে বীজ অভ্যন্তরে তৈরি করে। তিখাপু পরিবর্তিত হয়ে তৈরি হয়। এটি বীজের অভ্যন্তরে থাকে। এভাবে তিখায়ের অংশ পরিবর্তিত হয়ে ফল তৈরি করে। সুলালক উত্তীর্ণের জন্ম কোষ নষ্ট পরিপন্থ হওয়ার পর এসের মিলন ঘটলে ফুলের গুণপোষকটি ফলে এবং তিখাকসমূহ বীজে পরিপন্থ হয়। বীজ উত্তীর্ণের বৃলে রক্ত করে এবং বৃলে সুল করে। নিষেকের মাধ্যমে উত্ত পরিবর্তন না থাটলে ফল ও বীজের সুল হতো না। ফলে থাম্বের অভ্যন্তরে প্রাপ্তিকুল বিশেষ করে মানবজাতি করাস হয়ে যেতো।

ঝ. ► ২. মাত্র পর্যায়ে সুলো জাত হতে কার্যকর বৈশিষ্ট্য আবাসি জাতে স্থানান্তরের মাধ্যমে উত্ত ফলনশীল থামের জাত উত্তীর্ণের সত্ত্ব।

ক. তিখিন কী? ১
 খ. অত্রন্টিলীয় অংশল বলতে কী বোক? ২
 গ. উত্তীর্ণকের প্রক্রিয়াটি বর্ণনা করো। ৩
 ঘ. বর্ণিত প্রক্রিয়াটি অব্যুক্তি ও বিবরণে কীভাবে কৃতিকা রাখে? ৪
 নিষেকের উত্তীর্ণ করো।

ক. নিউক্লিক আসিত ও একে বিত্রে অবস্থিত ক্যাপসিত সমরয়ে প্রতিত এক একটি স্বত্ত্বমুক্তম সম্পূর্ণ ভাইরাস কলাই যলো তিখিয়ে।

খ. সুল ও কাণ্ডের প্রেরিসাইকল স্তর হতে কেন্দ্র পর্যন্ত বিন্দুত অংশলকে অত্রন্টিলীয় অংশল বলে। অত্রন্টিলীয় অংশল প্রেরিসাইকল, ভাস্কুলার বাক্সল, মাজা ও মজুরারপ্রি নিষেকে প্রতিত। আন্ত স্বল্পত, খালা ও পানি প্রবিহন, সুত্তা প্রদান ইত্যাদি অত্রন্টিলীয় অংশলের তিস্তুপুরুষের প্রধান কাজ।

গ. উত্তীর্ণকে উত্তীর্ণ করা হয়ে আর্ট পর্যায়ে সুলোজাত হতে কার্যকর বৈশিষ্ট্য আবাসি জাতে স্থানান্তরের মাধ্যমে উত্ত ফলনশীল থামের জাত উত্তীর্ণের সত্ত্ব। সুত্তারাঙ উত্তীর্ণকে ইতিলত করা প্রক্রিয়াটি যলো কৃতিম সংকরণাত্মক।

উত্তীর্ণের বাকি অংশ সুলালী ও এর '৪' নথ প্রয়োজন দেখো।

ঘ. উত্তীর্ণকে বর্ণিত প্রক্রিয়াটি অক্তুতপকে কৃতিম সংকরণাত্মক প্রক্রিয়া ও প্রক্রিয়াটি আমাদের অব্যুক্তি ও বিবরণে বিবরণাত্মকে সুরূতপূর্ণ কৃতিকা রাখে।

উত্তীর্ণের বাকি অংশ সুলালী ও এর '৪' নথ প্রয়োজন দেখো।

ঝ. ► ৩. নিয়ন্ত্রিত অবস্থার প্রয়াণারণ ঘটিয়ে বর্তমান জাতের ফলে হতে উত্ত জাতের ফলে প্রবর্তন সত্ত্ব।

ক. তিখিন কী? ১
 খ. প্রার্থনোজোজেনেসিস বলতে কী বোক? ২

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Handbook of Stem Cells, Two-Volume Set Robert Lanza,Catherine Verfaillie,Irving Weissman,Michael D. West,Helen Blau,John Gearhart,Brigid Hogan,Douglas Melton,Malcolm Moore,Roger Pedersen,E. Donnall Thomas,James A. Thomson,2004-10-05 New discoveries in the field of stem cell research have frequently appeared in the news and in scientific literature Research in this area promises to lead to new therapies for cancer heart disease diabetes and a wide variety of other diseases This two volume reference integrates this exciting area of biology combining the prerequisites for a general understanding of adult and embryonic stem cells the tools methods and experimental protocols needed to study and characterize stem cells and progenitor populations as well as a presentation by the world's experts of what is currently known about each specific organ system The editors of the Handbook of Stem Cells include Robert Lanza Helen Blau John Gearhart Brigid Hogan Douglas Melton Malcolm Moore Roger Pedersen E Donnall Thomas James Thomson Catherine Verfaillie Irving Weissman and Michael West The Editorial Board includes W French Anderson Peter Andrews Anthony Atala Jose Cibelli Giulio Cossu Robert Edwards Martin Evans Elaine Fuchs Margaret Fuller Fred Gage Richard Gardner Margaret Goodell Ronald Green William Haseltine Joseph Itskovitz Eldor Rudolf Jaenisch Ihor Lemischka Dame Anne McLaren Richard Mulligan Stuart Orkin Martin Pera Benjamin Reubinoff Janet Rossant Hans Scholer Austin Smith Evan Snyder Davor Solter Alan Trounson and Leonard Zon This comprehensive set should be a much needed addition to the library of students and researchers alike Provides comprehensive coverage on this highly topical subject Contains contributions by the foremost authorities and premiere names in the field of stem cell research The accompanying CD ROM includes over 250 color figures

HSC Personal Development, Health and Physical Education Damien Davis,Tom Kimmet,1993 Crop Production

Aakash Goyal,Muhammad Asif,2013-07-03 Humans are depended on crops for food fiber and more recently for fuel Demands for crop production are rising because of increasing population change in food habits and biofuel consumption The book focus on challenges progress and prospects of crop production It comprises of vast array of topics including latest agronomics practices for different crops to enhance productivity mitigate the challenges imposed by climate change improve water use efficiency factors controlling dormancy optimum use of fertilizers etc This volume will serve as an excellent resource for students and researchers interested and working in the area of sustainable crop production

Stem Cell Biology in Normal Life and Diseases Kamran Alimoghaddam,2013-05-08 Stem cells have a prominent role in normal life and also in pathogenesis of disorders Today these cells are clinically applicable in hematopoietic stem cell transplantation but expansion of their application in many more disorders needs more work For safe and effective application of these cells we need better knowledge of their biology their interaction with other cells especially supporting niche cells growth maturation and also immigration of stem cells through body in normal and abnormal conditions Also for clinical application we need to understand better their separation methods and safe manipulation This book is written to clarify some aspects of stem cell

biology their characteristics assessment of damage to cells during ex vivo manipulation and also their role in a model of cancers chronic myeloid leukemia *Stem Cell Anthology* ,2009-10-22 The fields of stem cell research regenerative medicine tissue engineering and cloning are very closely related It is important for researchers in each of these disciplines to be aware of the methods and principles in the others Elsevier publishes some of the highest individual references in these areas Bringing together the principles applications and basic understanding in these related areas of science will provide a new reference which is serve the needs of a variety of researchers Edited by Dr Bruce Carlson *Stem Cell Anthology* will be valuable to researchers and students who need to save time and link concepts to principles applications and methods in order to work more effectively and see links for potential collaborations Includes a collection of chapters by leaders in the stem cell field including the first researchers to discover iPS cells and multiple Nobel Laureates Provides the most detailed introduction to basic properties of major embryonic and adult stem cells by highlighting breakthrough discoveries in the nervous system spinal cord heart pancreas epidermis musculo skeletal retina leading areas of stem cell research in human application Details technical laboratory set up for practitioners technicians and administrators

ACI Manual of Concrete Practice American Concrete Institute,2002 *The Intrinsic Value of Endangered Species* Ian A. Smith,2016-01-08 Why save endangered species without clear aesthetic economic or ecosystemic value This book takes on this challenging question through an account of the intrinsic goods of species Ian A Smith argues that a species intrinsic value stems from its ability to flourish its organisms continuing to reproduce successfully and it avoiding extinction which helps to demonstrate a further claim that humans ought to preserve species that we have endangered He shows our need to exercise humility in our relations with endangered species through the preservation of their intrinsic goods which in turn rectifies our degradation of their importance Unique in its appeal to virtue ethics and to species concepts *The Intrinsic Value of Endangered Species* is an important resource for scholars working in environmental ethics and the philosophy of biology

Programme Et Résumés Des Communications Du Congrès Annuel Canadian Federation of Biological Societies,Canadian Federation of Biological Societies. Meeting,1980

Handbook of Stem Cells Robert Paul Lanza,2004 Accompanying CD ROM in v 2 has image collections which can be saved in PowerPoint or HTML **Essentials of Stem Cell Biology** Robert Lanza,John Gearhart,Brigid Hogan,Douglas Melton,Roger Pedersen,E. Donnall Thomas,James A. Thomson,Ian Wilmut,2009-06-05 First developed as an accessible abridgement of the successful *Handbook of Stem Cells* *Essentials of Stem Cell Biology* serves the needs of the evolving population of scientists researchers practitioners and students that are embracing the latest advances in stem cells Representing the combined effort of seven editors and more than 200 scholars and scientists whose pioneering work has defined our understanding of stem cells this book combines the prerequisites for a general understanding of adult and embryonic stem cells with a presentation by the world s experts of the latest research information about specific organ systems From basic biology mechanisms early development ectoderm mesoderm endoderm methods to application of stem

cells to specific human diseases regulation and ethics and patient perspectives no topic in the field of stem cells is left uncovered Selected for inclusion in Doody's Core Titles 2013 an essential collection development tool for health sciences libraries Contributions by Nobel Laureates and leading international investigators Includes two entirely new chapters devoted exclusively to induced pluripotent stem iPS cells written by the scientists who made the breakthrough Edited by a world renowned author and researcher to present a complete story of stem cells in research in application and as the subject of political debate Presented in full color with glossary highlighted terms and bibliographic entries replacing references

Statutes California,2007 Trans/National Political Cultures Benita Brahmbhatt,2004 Scanning the Professional Way Sybil Ihrig,Emil Ihrig,1995 Improve your scanning skills selectively and quickly with this comprehensive and tightly focused book The authors draw on their long standing professional expertise in publishing design and digital prepress to pull out all the stops in this lavishly illustrated yet compact guide to professional quality scanning The Reporter on Human Reproduction and the Law ,1971 *The School Science Review* ,1948 **The Academy** ,1908 Dendritic Cells Michael T. Lotze,Angus W. Thomson,1999 Dendritic Cells is the first definitive book on this subject and brings together the most current information in the field for scientists and clinicians It outlines research studies the first reports of therapeutic applications of dendritic cells and the enormous potential of these unique cells Contributors are from the key research groups around the world who are working on the immunobiology of dendritic cells and in applied areas striving to develop their therapeutic potential The Academy and Literature ,1908 **New York Court of Appeals. Records and Briefs.** New York (State)., Academy and Literature Charles Edward Cutts Birch Appleton,Charles Edward Doble,James Sutherland Cotton,Charles Lewis Hind,William Teignmouth Shore,Alfred Bruce Douglas,Ellis Ashmead-Bartlett,Thomas William Hodgson Crosland,1908

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