

Relationships and Biodiversity

A laboratory activity for the Living Environment

Introduction

Potamogeton is a valuable plant because it produces Curc, a compound used for treating certain kinds of cancer. Curc cannot be produced in the laboratory. *Potamogeton* grows very slowly and is on the endangered species list, so its ability to provide Curc in large quantities is limited.

Species that are more closely related to *Potamogeton* are more likely to produce the important substance Curc because their DNA is similar. If you remember, DNA codes the directions for making proteins and curc is a protein. Three similar plant species that are plentiful (X, Y, and Z) may be related to *Potamogeton*. You will work as a researcher to:

- gather structural and molecular evidence to determine which plant species is most closely related to the hypothetical species (think it is not real) *Potamogeton*
- use this evidence to decide which plant species is most likely to serve as a source of the important substance Curc

How are we going to figure out which plant is most closely related?

We will use some different tests to complete the task.

- Three different forms of structural evidence.
- An enzyme catalyzed reaction test.
- DNA gel electrophoresis.
- Paper chromatography.
- Molecular evidence.



Biodiversity Lab Living Environment

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Azeiteiro, Judy Rogers, Chris
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Biodiversity Lab Living Environment:

Regents Exams and Answers: Living Environment, Fourth Edition Gregory Scott Hunter, 2024-01-02 Be prepared for exam day with Barron's Trusted content from experts Barron's Regents Exams and Answers Living Environment provides essential review for students taking the Living Environment Regents and includes actual exams administered for the course thorough answer explanations and overview of the exam This edition features Four actual Regents exams to help students get familiar with the test format Review questions grouped by topic to help refresh skills learned in class Thorough answer explanations for all questions Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies

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Regents Living Environment Power Pack Revised Edition Barron's Educational Series, Gregory Scott Hunter, 2021-01-05 Barron's two book Regents Living Environment Power Pack provides comprehensive review actual administered exams and practice questions to help students prepare for the Biology Regents exam This edition includes Four actual Regents exams Regents Exams and Answers Living Environment Four actual administered Regents exams so students can get familiar with the test Comprehensive review questions grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies Let's Review Regents Living Environment Extensive review of all topics on the test Extra practice questions with answers One actual Regents exam

Universities as Living Labs for Sustainable Development Walter Leal Filho, Amanda Lange Salvia, Rudi W. Pretorius, Luciana Londero Brandli, Evangelos Manolas, Fatima Alves, Ulisses Azeiteiro, Judy Rogers, Chris Shiel, Arminda Do Paco, 2019-04-30 This book fills an important gap in the literature and presents contributions from scientists and researchers working in the field of sustainable development who have engaged in dynamic approaches to implementing sustainability in higher education It is widely known that universities are key players in terms of the implementation and further development of sustainability with some having the potential of acting as living labs in this rapidly growing field Yet there are virtually no publications that explore the living labs concept as it relates to sustainability and in an integrated manner The aims of this book which is an outcome of the 4th World Symposium on Sustainable Development at Universities WSSD U 2018 held in Malaysia in 2018 are as follows i to document the experiences of universities from all around the world in curriculum innovation research activities and practical projects as they relate to sustainable development at the university level ii to disseminate information ideas and experiences acquired in the execution of projects including successful initiatives and good practice iii to introduce and discuss methodological approaches and projects that seek to integrate the topic of sustainable

development in the curricula of universities and iv to promote the scalability of existing and future models from universities as living labs for sustainable development The papers are innovative cross cutting and many reflect practice based experiences some of which may be replicable elsewhere Also this book prepared by the Inter University Sustainable Development Research Programme IUSDRP and the World Sustainable Development Research and Transfer Centre WSD RTC reinforces the role played by universities as living labs for sustainable development

Let's Review Regents: Living Environment Revised Edition Barron's Educational Series, Gregory Scott Hunter, 2021-01-05 Barron's Let's Review Regents Living Environment gives students the step by step review and practice they need to prepare for the Regents exam This updated edition is an ideal companion to high school textbooks and covers all Biology topics prescribed by the New York State Board of Regents This edition includes One recent Regents exam and question set with explanations of answers and wrong choices Teachers guidelines for developing New York State standards based learning units Two comprehensive study units that cover the following material Unit One explains the process of scientific inquiry including the understanding of natural phenomena and laboratory testing in biology Unit Two focuses on specific biological concepts including cell function and structure the chemistry of living organisms genetic continuity the interdependence of living things the human impact on ecosystems and several other pertinent topics

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Animals and Science Education Michael P. Mueller, Deborah J. Tippins, Arthur J. Stewart, 2017-06-15 This book discusses how we can inspire today's youth to engage in challenging and productive discussions around the past present and future role of animals in science education Animals play a large role in the sciences and science education and yet they remain one of the least visible topics in the educational literature This book is intended to cultivate research topics conversations and dispositions for the ethical use of animals in science and education This book explores the vital role of animals with in science education specimens protected species and other associated issues with regards to the role of animals in science Topics explored include ethical curriculum and pedagogical dimensions involving invertebrates engineering solutions that contribute to ecosystems the experiences of animals under our care aesthetic and contemplative practices alongside science school based ethical dialogue nature study for promoting inquiry and sustainability the challenge of whether animals need to be used for science whatsoever reconceptualizing museum specimens cultivating socioscientific issues and epistemic practice cultural integrity and citizen science the care and nurturance of gender balanced curriculum choices for science education and theoretical conversations around cultivating critical thinking skills and ethical dispositions The diverse authors in this book take on the logic of domination and symbolic violence embodied within the scientific enterprise that has systematically subjugated

animals and nature and emboldened the anthropocentric and exploitative expressions for the future role of animals At a time when animals are getting excluded from classrooms too dangerous too many allergies too dirty this book is an important counterpoint Interacting with animals helps students develop empathy learn to care for living things engage with content We need more animals in the science curriculum not less David Sobel Senior Faculty Education Department Antioch University New England

Current Trends on Innovability and Sustainable Innovation Anna Ujwary-Gil, Anna Florek-Paszkowska, 2025-06-01 Introduction to the Innovability Index More than the fusion of innovation and sustainability The integration of innovation and sustainability conceptualized as innovability represents a strategic construct for addressing global challenges such as climate change resource constraints and social inequality The conceptual understanding of innovability has advanced but its empirical measurement and operationalization remain underdeveloped This conceptual paper introduces the Innovability Index designed to evaluate the extent to which countries regions or organizations embed sustainability principles The index encompasses four dimensions technological innovation for sustainability environmental sustainability social inclusiveness and sustainable business practices Each dimension is assessed through a set of indicators normalized weighted and aggregated to generate a composite performance score The Innovability Index provides a structured approach for benchmarking sustainable innovation capabilities It is a practical tool for policymakers firms and researchers to align innovation ecosystems with sustainability imperatives and the Sustainable Development Goals SDGs This conceptual paper opens the thematic issue of innovability and sustainable innovation as well as addresses a gap in the literature by introducing the initial attempt to measure innovability Keywords Innovability Innovability Index sustainable development ESG sustainability sustainable innovation technological innovation environmental sustainability social inclusiveness sustainable business practices Leadership competencies for innovability Bridging theory and practice for sustainable development PURPOSE This study explores the critical leadership competencies necessary for fostering innovability the integration of innovation and sustainability within organizations particularly in education institutions HEIs and the business sector The research seeks to address the gap in understanding how these competencies are developed in HEIs and whether they effectively prepare graduates with the skills needed for the current business context Additionally the study emphasizes the need to identify robust instruments for measuring these competencies to ensure their practical application in organizational settings METHODOLOGY A systematic literature review SLR was conducted using Scopus and Web of Science databases The study employed a rigorous selection process to identify relevant empirical studies published between 2015 and 2024 A total of 53 articles were analyzed to address three key research questions related to the characteristics of innovability leadership recommendations for developing innovability in organizations and the methodologies or instruments used to identify these competencies The analysis involved thematic synthesis and content analysis to extract insights and identify gaps in the existing literature FINDINGS The study identifies five key categories of

leadership competencies essential for innovability including strategic leadership fostering a culture of collaboration commitment to sustainability continuous education and sensitivity to global megatrends Despite the recognition of these competencies the study reveals a significant lack of empirical research on their practical implementation and measurement The findings also highlight the need for robust tools to assess these competencies effectively Additionally the study provides several recommendations for developing innovability for their integration into the business sector emphasizing the importance of leadership development programs the integration of sustainability into corporate strategy and the promotion of a collaborative organizational culture

IMPLICATIONS Theoretically the study contributes to the conceptual framework of innovability leadership by identifying critical competencies and suggesting a more integrated approach to leadership development in business education Practically the research underscores the importance of developing targeted training programs and assessment tools to cultivate these competencies in future leaders This is particularly relevant for business schools which play a crucial role in preparing students to address complex global challenges

ORIGINALITY AND VALUE This study fills a gap in the literature by providing a detailed examination of the competencies required for innovability leadership and proposing directions for future research and practice It offers a unique contribution by bridging the theoretical and practical aspects of innovability in leadership particularly within the context of higher education

Keywords innovability leadership competencies sustainability business education systematic literature review Sustainable Development Goals SDGs leadership development educational innovation higher education Integrating science technology and experimental knowledge for sustainable innovation A Living Lab approach to urban biodiversity management

PURPOSE This study aims to enhance understanding of STI Science Technology Innovation and DUI Doing Using Interacting integration dynamics in sustainable innovation specifically investigating its role in innovation outcomes stakeholder engagement and the institutionalization of sustainable practices in urban lawn management

METHODOLOGY Using a single case study design the study captures real time dynamic interactions between STI and DUI practices observing ongoing processes Data were collected through five focus group interviews with 32 stakeholders individual interviews project documentation and a project diary Stakeholders included public sector officials NGOs private garden owners and business representatives each offering insights into policy environmental practices and market driven solutions The Living Lab methodology emphasizing co creation and iterative feedback guided both data collection and analysis with NVivo software and manual coding used to identify key themes and challenges in integrating STI and DUI for sustainable innovation

FINDINGS The investigation revealed that integrating STI and DUI modes fosters a dynamic synergy STI provided scientific rigor while DUI leveraged stakeholder input and local contexts to co develop adaptive urban biodiversity solutions This approach addressed location specific challenges balancing ecological goals with practical feasibility For instance stakeholder engagement refined scientific recommendations ensuring broader applicability and adoption Despite tensions between rigor and practicality the participatory Living Lab methodology

facilitated co creation aligning scientific insights with real world needs to enhance sustainable lawn care practices

IMPLICATIONS The study contributes to innovation theory by showing how integrating STI and DUI modes fosters socially responsive adaptable solutions for urban biodiversity management From a practical standpoint it underscores the importance of stakeholder engagement in developing tools and strategies that balance scientific insights with practical real world application The project offers a replicable model for integrating formal research with user driven innovation in sustainability projects

ORIGINALITY AND VALUE This paper provides a unique contribution by showcasing how the integration of formal scientific research STI with practical user centered approaches DUI can foster innovability The use of the Living Lab methodology to co create urban biodiversity solutions bridges the gap between academic research and practical application offering a novel framework for addressing complex environmental challenges through collaborative innovation

Keywords sustainable innovation Science Technology Innovation STI Doing Using Interacting DUI urban biodiversity lawn management Living Lab stakeholder engagement participatory innovation co creation climate change adaptation The role of green blue ocean strategy in enhancing frugal innovation through IoT and AI A resource based view perspective

PURPOSE This study explores the role of Green Blue Ocean Strategy GBOS in promoting frugal innovation by leveraging IoT and AI from an RBV theoretical perspective targeting creative entrepreneurs in Central Java Indonesia

METHODOLOGY A quantitative approach was used with Structural Equation Modelling SEM analyzed via AMOS Data from 262 creative entrepreneurs were collected through an online closed questionnaire using purposive sampling

FINDINGS The study reveals that 1 IoT does not significantly impact frugal innovation 2 AI positively influences frugal innovation and 3 GBOS effectively mediates the relationship between IoT AI and frugal innovation suggesting that integrating sustainable strategies with technology can lead to more cost effective and inclusive innovations

IMPLICATIONS for theory and practice The study extends the RBV framework by integrating the GBOS concept demonstrating its effectiveness in optimizing digital technology for sustainability driven innovation It contributes to the literature on sustainability strategies and the Resource Based View by introducing a novel theoretical model that links GBOS IoT and AI with frugal innovation Practically GBOS offers a pathway for creative entrepreneurs to overcome resource constraints and achieve competitive advantages through sustainable practices

ORIGINALITY AND VALUE This study introduces Green Blue Ocean Strategy GBOS as a novel conceptual framework that extends the traditional Blue Ocean Strategy BOS by integrating sustainability principles GBOS addresses both economic and environmental concerns enabling businesses to achieve cost effective innovation Grounded in the Resource Based View RBV this study systematically develops and empirically tests GBOS by linking it with IoT AI and frugal innovation The framework offers a new lens for sustainable competitive advantage in resource constrained environments

Keywords internet of things artificial intelligence green blue ocean strategy frugal innovation resource based view sustainability sustainable strategy digital technology sustainability driven innovation sustainable innovation The impact of

eco innovation on circular economy in EU countries How patents affect circular material use rate

PURPOSE The main objective of this study is to examine how eco innovation activities measured by the number of patents related to recycling and secondary raw materials affect the level of use of circular materials in economic processes in European Union countries Simultaneously to take into account the impact of the other drivers of the circular economy the study includes control variables such as GDP per capita share of income from environmental taxes age structure of the population and level of education of the population

METHODOLOGY This study uses a generalized linear model for panel data For all analyzed explanatory variables greater inter group variation than intra group variation was observed so a panel averaged effects estimator was used The study sample includes 28 European Union EU countries The time scope of this study is 2010 2019 Eurostat database was the source of the unbalanced panel data This study seeks answers to the following research question What is the impact of patents related to waste management and recycling on the circularity rate of the EU economies

FINDINGS The results indicate that leaders in the area of circularity are the Netherlands France and Belgium Ireland Romania and Portugal occupy last place in terms of the circularity of the economy There is considerable variation in the number of patent applications related to waste management and recycling in the EU countries Luxembourg Finland Belgium and the Netherlands have the highest propensity for patents In contrast Bulgaria Greece and Croatia show the lowest patent activity Finally the higher the propensity to patent in waste management and recycling technologies the higher the rate of circular use of materials

IMPLICATIONS The results provide a compelling rationale for prioritizing and incentivizing investments in promising technologies to achieve both environmental sustainability and economic prosperity in the long term

ORIGINALITY AND VALUE Our study sheds new light on the link between eco innovation and circular economy in EU countries We address the issue of possible nonlinearities between circularity and its drivers Given the fractional nature of the response variable i e circular material use rate we apply the generalized estimating equations GEE approach to model both the mean structure and association structure of fractional responses

Keywords circular economy CE circularity eco innovation patent circular material use CE driver EU countries generalized estimating equations recycling technologies waste management Unitary Patent System and innovation dynamics in the European Union The role of economic resources and R D investments

PURPOSE The EU supports competitiveness and sustainability via innovations by the patent protection of inventions On 1st June 2023 the EU launched the Unitary Patent System UPS with the Unitary Patent as a universal innovation protection tool The data regarding its first 20 months of operations offers indices about innovation and patenting trends

METHODOLOGY The contextual exploration of the UPS was projected into four aims addressing the absolute and relative numbers of Unitary Patents A1 and the relationship between Unitary Patents and GDP per capita A2 and GERD A3 and comparatively juxtaposing them A4 This deeper contextual understanding of Unitary Patenting dynamic entails EU member states and their top four competitors China Japan South Korea USA The data regarding the GDP GDP per capita

GERD number of Unitary Patents in total and per millions of inhabitants was collected and visualized via tables and charts and submitted to a critical comparison FINDINGS The first 20 months of the UPS operations suggests that the Unitary Patent is a viable but not the most popular patenting option and that there is a positive impact on the GDP per capita and GERD for the majority of the EU member states and that there are differences between EU member states in their efficiency to generate Unitary Patents IMPLICATIONS The performed study confirms the parallel co existence of various patenting strategies and the importance of investments in patented inventions However the size of GDP per capita followed by GERD is a mere pre requirement that leads to diversified efficiency even among similar jurisdictions with at least an average GDP per capita and GERD Arguably the UPS magnifies the differences and the six original European integration jurisdictions are not the best UPS players There are indices about positive trends for Northern EU member states and negative trends for Southern EU member states ORIGINALITY AND VALUE This is a pioneering contribution regarding a newly launched system showing that despite the same regime EU member states differ dramatically in their approach to patenting and that the level of GDP per capita and GERD are just the starting points Keywords Unitary Patent System EU member states GDP gross domestic expenditure on research and development GERD GERD per GDP GERD Index innovation sustainability economic resources patent protection The Digital Sustainability Ecosystem A conceptual framework for digital transformation and sustainable innovation PURPOSE This study introduces the Digital Sustainability Ecosystem a conceptual framework to integrate digital transformation and sustainable innovation It examines how emerging digital technologies including artificial intelligence blockchain and the Internet of Things drive sustainability transitions by serving as strategic enablers Addressing a critical gap in the literature this research focuses on the dynamic mechanisms and synergies that connect digital transformation with sustainable innovation within a complex ecosystem METHODOLOGY The study employs a systematic literature review SLR of 50 studies and a comparative analysis of 13 existing frameworks to identify and analyze key mechanisms that link digital transformation and sustainable innovation culminating in the development of the Digital Sustainability Ecosystem framework FINDINGS The study identifies five interconnected mechanisms efficiency gains dematerialization circular economy enablement innovation acceleration and digital collaboration These mechanisms illustrate the relationships between technological advancements and sustainability objectives while addressing synergies and tensions such as the trade offs between energy demands and environmental benefits The Digital Sustainability Ecosystem emphasizes multi stakeholder collaboration iterative feedback loops and adaptable processes to address gaps in existing models positioning digital transformation as a transformative force for systemic sustainability improvements IMPLICATIONS The Digital Sustainability Ecosystem advances theoretical discourse by positioning sustainability as a systemic outcome of digital transformation extending beyond traditional efficiency focused models It emphasizes organizational resilience and stakeholder collaboration as pivotal for achieving sustainability objectives Practitioners can leverage AI IoT and blockchain to

enhance resource optimization and foster sustainability driven innovation ecosystems Policymakers and organizations are encouraged to combine digital strategies with sustainability imperatives emphasizing adaptive leadership regulatory alignment and multi stakeholder engagement ORIGINALITY AND VALUE This study presents a conceptual framework that bridges theoretical and practical gaps in the literature by integrating foundational theories that associate digital transformation with sustainability imperatives while fostering innovation and competitive advantage The framework sets the stage for future research emphasizing potential applications in industry specific contexts cross sectoral collaborations and the evolving role of emerging technologies in sustainability transitions By incorporating dynamic feedback loops and systemic adaptability this framework establishes a foundation for advancing both academic inquiry and practical implementation It offers guidance for exploring unanswered questions about scalability policy integration and multi stakeholder engagement in the digital age Keywords digital transformation sustainable innovation digital sustainability ecosystem sustainability transitions artificial intelligence blockchain Internet of Things circular economy efficiency gains dematerialization acceleration digital collaboration stakeholders

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Agrobiodiversity, School Gardens and Healthy Diets Danny Hunter,Emilita Monville-Oro,Bessie Burgos,Carmen Nyhria Roel,Blesilda M. Calub,Julian Gonsalves,Nina Lauridsen,2020-03-03 This book critically assesses the role of agrobiodiversity in school gardens and its contribution to diversifying diets promoting healthy eating habits and improving nutrition among schoolchildren as well as other benefits relating to climate change adaptation ecoliteracy and greening school spaces Many schoolchildren suffer from various forms of malnutrition and it is important to address their nutritional status given the effects it has on their health cognition and subsequently their educational achievement Schools are recognized as excellent platforms for promoting lifelong healthy eating and improving long term sustainable nutrition security required for optimum educational outcomes This book reveals the multiple benefits of school gardens for improving nutrition and education for children and their families It examines issues such as school feeding community food production school gardening nutritional education and the promotion of agrobiodiversity and draws on international case studies from both developed and developing nations to provide a comprehensive global assessment This book will be essential reading for those interested in promoting agrobiodiversity sustainable nutrition and healthy eating habits in schools and public institutions more generally It identifies recurring and emerging issues establishes best practices identifies key criteria for success and advises on strategies for scaling up and scaling out elements to improve the uptake of school gardens

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