

# Grade- 12-BIOLOGY PRACTICAL (2024-25)

## A. Experiments:

### Ex: No. 1- Study of pollen germination

AIM: To study the pollen germination on slide

#### REQUIREMENTS

Fresh seasonal flowers, slide, coverslip, microscope, sucrose, boric acid, magnesium sulphate, potassium nitrate, beakers etc.

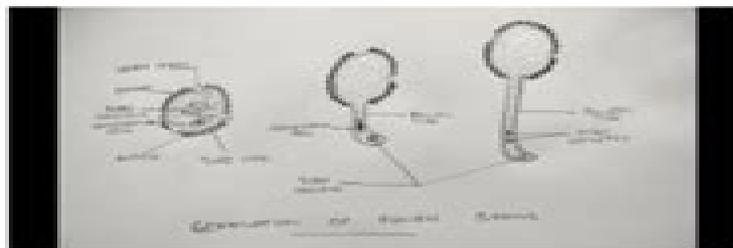
#### PROCEDURE

1. Prepare a nutrient solution by dissolving 10 g sucrose, 10 g boric acid, 30 mg magnesium sulphate and 20 mg potassium nitrate in 100 ml of water.
2. Take a few drops of this solution on a clean slide and dust a few pollen grains from the stamen of a mature flower on it.
3. Observe the slide in the microscope after 5 minutes and then observe it regularly for about half an hour.

#### OBSERVATION

In nutrient medium, the pollen grain germinate. The tube cell enlarges and comes out of the pollen grain through one of the germ pores to form a pollen tube. The tube nucleus descends to the tip of the pollen tube. The generative cell also passes into it. It soon divides into two male gametes. Each male gamete is lenticular to spherical in outline.

Diagram:



Precaution:

# Hypothesis Practical Grade12 Term2014

**SJ Ball**



## **Hypothesis Practical Grade12 Term2014:**

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**The Preparation of Teachers of English as an Additional Language around the World** Nihat Polat,Laura Mahalingappa,Hayriye Kayi-Aydar,2021-08-09 This book fills a critical gap in a neglected area in current educational research international teacher education It focuses on the preparation of teachers of English as an additional language EAL in several world regions The book consists of chapters by researchers in well established teacher education programs in 11 countries Brazil Canada China Finland Greece New Zealand Russia Saudi Arabia South Korea Turkey and the United States of America It takes a cross national comparative approach around four major focus areas policy research curriculum and practice offering critical implications that can help improve EAL teacher education programs in different parts of the world Teacher education is an area that has great potential for international cross pollination of ideas and actions and this book represents an important first step along this road

Educational Principles and Practice in Veterinary Medicine Katherine Fogelberg,2024-01-04 Educational Principles and Practice in Veterinary Medicine An in depth veterinary centered reference to the discipline of education Educational Principles and Practice in Veterinary Medicine provides a detailed comprehensive reference to the discipline of education both broadly and as it relates to veterinary medicine Written for veterinary faculty members instructors and educators in other health professions the book offers an in depth examination of knowledge and skills related to veterinary education It discusses educational theory how people learn the structure and function of higher education and educational technologies among many other topics of importance Sections cover educational leadership professional development for faculty research methods and study design administration outcomes and assessment accreditation and the roles of the professional program

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Deep Learning in Adaptive Learning: Educational Behavior and Strategy Chia-Chen Chen,Patrick Hung,Erol Eđriođlu,Kuo-Lun Hsiao,2022-09-14

The Connection Between Mathematical and Reading Abilities and Disabilities Shelley Shaul,Joanna Christodoulou,Maria T. Sikkema-de Jong,2022-05-03

**The psychological process of stereotyping: Content, forming, internalizing, mechanisms, effects, and interventions**

Baoshan Zhang,Magdalena Zawisza,Fangfang Wen,Junhua Dang,Fengqing Zhao,2023-02-06

Stereotype is a pervasive and persistent human tendency that stems from a basic cognitive need to categorize simplify and process the complex world This tendency is a precondition for social bias prejudice and discrimination Previous research has mainly focused on the content psychological mechanisms and intervention strategies of negative stereotypes as well as the stereotype threat phenomenon induced by an evaluative context where a negative in group stereotype could be confirmed However there is a lack of research examining the psychological process of forming and internalizing social stereotypes the neurocognitive mechanisms of stereotypes and the interventions including potential neurocognitive interventions addressing the consequences of negative stereotypes Furthermore as per the Behavioral Immune System BIS theory the very presence of a pathogen is likely to increase stereotyping across various social categories especially in those with a heightened perception of vulnerability to disease Thus stereotypes can be enhanced in the context of pathogen exposure such as the current outbreak of COVID 19 pandemic People exposed to the virus are more likely to suffer from personal and institutional stereotypes and discrimination which may cause negative consequences to personal and social well being Therefore in the current context of global Covid 19 pandemic it is necessary to investigate the increasing biases driven by stereotypes regarding viewing pathogens as a threat which holds across different social categories Specifically what constitutes and shapes stereotypes towards people living in epidemic areas What are the consequences of these short term shaped stereotypes What is the relationship between the consequences of these stereotypes and traditional stereotypes i e stereotypes towards race gender and age Will these short term stereotypes interact with traditional stereotypes to exacerbate discrimination or will the recategorization based on the short term stereotypes during Covid 19 pandemic allow people to ignore the traditional inferior social identity and in turn to promote social integration among different groups And how can we prevent the increasing tendency of relying on stereotypes and instead increase pro social behaviors in the Covid 19 context The current Research Topic focuses on understanding the

psychological process of forming and internalizing social stereotypes the neurocognitive mechanisms of stereotypes as well as interventions including potential neurocognitive interventions regarding the consequences of negative stereotypes And we also aim to gather the latest research investigating the broad psychological process of social stereotyping with an emphasis on the implications under the Covid 19 context That is this Research Topic is also interested in the negative stereotypes specific to Covid 19 pandemic as well as relevant preventative interventions aimed at people perceived as at higher Covid 19 exposure risk Theoretical and empirical research from psychology sociology and related fields is welcome Examples of possible themes for manuscripts include but are not limited to the following topics The content of stereotypes Social categorization and discrimination based on stereotypes Traditional stereotypes and their consequences The psychological process of social stereotype formation and internalization The mechanisms including neurocognitive mechanisms of stereotypes and its consequences The stereotype neutralizing interventions including neurocognitive intervention strategies towards negative stereotypes The psychological process of stereotypes during Covid 19 pandemic The social group categorization and social cohesion during Covid 19 pandemic The interactions between traditional stereotypes towards social groups seen as inferior in the dominant culture and the short term stereotypes during Covid 19 pandemic The strategies of tackling stereotypes in Covid 19 pandemic

*Handbook of Educational Psychology* Lyn Corno, Eric M. Anderman, 2015-07-06  
The third edition of the *Handbook of Educational Psychology* is sponsored by Division 15 of the American Psychological Association In this volume thirty chapters address new developments in theory and research methods while honoring the legacy of the field's past A diverse group of recognized scholars within and outside the U S provide integrative reviews and critical syntheses of developments in the substantive areas of psychological inquiry in education functional processes for learning learner readiness and development building knowledge and subject matter expertise and the learning and task environment New chapters in this edition cover topics such as learning sciences research latent variable models data analytics neuropsychology relations between emotion motivation and volition EMOVO scientific literacy sociocultural perspectives on learning dialogic instruction and networked learning Expanded treatment has been given to relevant individual differences underlying processes and new research on subject matter acquisition The *Handbook of Educational Psychology* Third Edition provides an indispensable reference volume for scholars in education and the learning sciences broadly conceived as well as for teacher educators practicing teachers policy makers and the academic libraries serving these audiences It is also appropriate for graduate level courses in educational psychology human learning and motivation the learning sciences and psychological research methods in education and psychology

**Textbook of Critical Care: First South Asia Edition - E-Book** Jean-Louis Vincent, Edward Abraham, Frederick A. Moore, Patrick Kochanek, Mitchell P. Fink, 2017-03-27  
Comprehensive concise and readable *Textbook of Critical Care First South Asia Edition* brings you fully up to date with the effective management of critically ill patients providing the evidence based guidance you need to overcome a

full range of practice challenges Drs Jean Louis Vincent Edward Abraham Frederick A Moore Patrick Kochanek and Mitchell P Fink are joined by other international experts who offer a multidisciplinary approach to critical care sharing expertise in anesthesia surgery pulmonary medicine and pediatrics This highly acclaimed text offers ICU clinicians a new understanding of the pathophysiology of critical illness and new therapeutic approaches to critical care Features a wealth of tables boxes algorithms diagnostic images and key points that clarify important concepts and streamline complex information for quick reference

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**Scientific American** ,1895

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