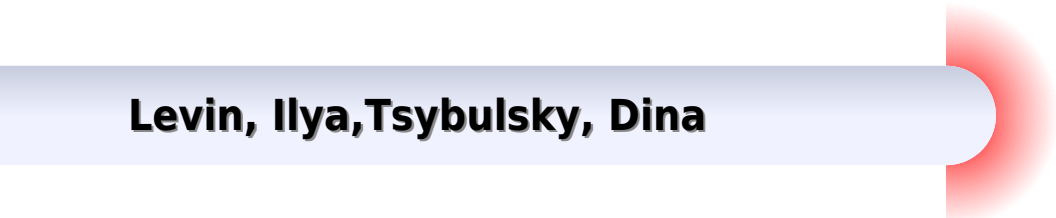


GR 10 Paper 1 Life Sciences scope November 2023 (10 November 2023)

Biological terms: Interphase, Anaphase, Metaphase, Telophase, Collenchyma, phloem, Sclerenchyma, Parenchyma, cuticula, Transpirations, stomata, neuron, organic compound, connective tissue, chromatin, chromosome, foramen magnum, axial skeleton, cranium	
Chemistry of life	Cells
Difference between organic and inorganic compounds	Difference between animal cell and plant cell
Examples of organic and inorganic compounds	All the cell organelles and functions/rolls
Monomers of all organic compound	Describe the build of the nucleus, mitochondria, and chloroplast
Elements of all the organic compounds	Investigation: Osmose and diffusion (Look at the apparatus that we use and how to set up this Investigation)
Vitamins A, B, C, D, and E, and there deficiency diseases they can cause	Explain osmose and diffusion
Enzymes	
- Lock and key model	
- Function of enzymes	
Influence of temperature and pH on enzyme action	
Mitosis	Plant tissue
All the phases can identify and give reasons for your answers	Build and function of: Collenchyma, Sclerenchyma, Parenchyma, Phloem, Xylem and stomata
Product of Mitosis	Definition of tissue
Difference between telophase in plant cells and animal cells	
Biological importance of Mitosis	
Cancer: - Uncontrolled cell division and growth: Causes and treatment of cancer	
	Function and build of: Stomata, Xylem, and root hair
	Adaptions of Xylem for movement of water upwards
Animal tissue	Plant organs
Name and identify all the animal tissues and where in the human body are they located.	The labels and functions of the dorsiventral leaf.
Functions of all the animal tissues	Adaptions of the different parts of the leaf
Name all the connective tissues	Definition of an organ
Support and transport in plants	Support in animals
Labels of dicotyledonous stem and root	All the labels of the skeleton
Difference between a dicotyledons root and stem	Where do we find long bones in the skeleton
	Function of the skeleton
Investigation: The rate of transpirations (Potometer)	
The effect of environmental factors on transpiration (Wind, Temperature and Light.)	

2014 Life Science Paper Scope

Levin, Ilya, Tsybulsky, Dina



2014 Life Science Paper Scope:

Atlas of Macroscopes Katy Börner, Elizabeth G. Record, Todd Theriault, 2015-10-14 A fascinating data adventure through the lens of macroscopes which offer us illuminating and holistic views of our ever changing world In *Atlas of Macroscopes* Katy Börner, Elizabeth G. Record and Todd Theriault take you on an epic data adventure You will explore data landscapes designed as uniquely interactive spaces and learn more about our world and your place in it You will gain new perspectives on how to gather, understand and communicate data as well as how to best use it You will discover what it means to touch data that informs and inspires Transcending the static nature of the maps featured in the initial trilogy this fourth *Atlas* showcases 40 real life macroscopes or interactive data visualizations that were displayed in the first decade 2015-2024 of the traveling exhibit *Places, Spaces, Mapping Science* Encompassing vast amounts of data macroscopes give us holistic views of complex systems or networks They provide an entry point for scientists and laypeople alike and empower us to engage directly with large datasets and to conduct our own lines of questioning As interactive tools macroscopes connect data creators and users As portals to continuously evolving data macroscopes can serve as windows to the dynamics of any terrain, personal or professional, local or global and offer key insights into our surroundings and even our place in the universe While big data is creating new ways to view and understand information macroscopes help us see the big picture as we seek to better navigate our ever changing world

Data Integration in the Life Sciences Naveen Ashish, Jose-Luis Ambite, 2015-07-07 This book constitutes the proceedings of the 11th International Conference on Data Integration in the Life Sciences DILS 2015 held in Los Angeles, CA, USA in July 2015 The 24 papers presented in this volume were carefully reviewed and selected from 40 submissions They are organized in topical sections named data integration technologies, ontology and knowledge engineering for data integration, biomedical data standards and coding, medical research applications and graduate student consortium

Digital Tools and Solutions for Inquiry-Based STEM Learning Levin, Ilya, Tsybulsky, Dina, 2017-03-31 In the digital age the integration of technology has become a ubiquitous aspect of modern society These advancements have significantly enhanced the field of education allowing students to receive a better learning experience *Digital Tools and Solutions for Inquiry Based STEM Learning* is a comprehensive source of scholarly material on the transformation of science education classrooms through the application of technology Including numerous perspectives on topics such as instructional design, social media and scientific argumentation this book is ideally designed for educators, graduate students, professionals, academics and practitioners interested in the latest developments in the field of STEM education

Research Handbook on Intellectual Property and the Life Sciences Duncan Matthews, Herbert Zech, 2017-06-30 Intellectual property (IP) is a key component of the life sciences, one of the most dynamic and innovative fields of technology today At the same time the relationship between IP and the life sciences raises new public policy dilemmas The *Research Handbook on Intellectual Property and the Life Sciences* comprises contributions by leading experts

from academia and industry to provide in depth analyses of key topics including pharmaceuticals diagnostics and genes plant innovations stem cells the role of competition law and access to medicines The Research Handbook focuses on the relationship between IP and the life sciences in Europe and the United States complemented by country specific case studies on Australia Brazil China India Japan Kenya South Africa and Thailand to provide a truly international perspective

Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges

Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives *Trends in*

Teaching Experimentation in the Life Sciences Nancy J. Pelaez, Stephanie M. Gardner, Trevor R. Anderson, 2022-05-11 This book is a guide for educators on how to develop and evaluate evidence based strategies for teaching biological experimentation to thereby improve existing and develop new curricula It unveils the flawed assumptions made at the classroom department and institutional level about what students are learning and what help they might need to develop competence in biological experimentation Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist It includes explicit evidence based guidelines for educators regarding the teaching learning and assessment of biological research competencies The book also provides practical teacher guides and exemplars of assignments and assessments It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book contributes to the growth of public understanding of biological issues including scientific literacy and the crucial importance of evidence based decision making around public policy It will be beneficial to life science instructors biology education researchers and science administrators who aim to improve teaching in life science departments Chapters 6 12 14 and 22 are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Challenges of Interdisciplinary Research in the Field of Critical (Sex/ Gender) Neuroscience Hannah Fitsch, Flora Lysen, Suparna Choudhury, 2022-02-17 The Global Governance of Genetic Resources Florian Rabitz, 2017-04-28 How is access to genetic resources and the equitable sharing of the benefits arising out of their use to be guaranteed Exploring the subject comparatively with regard to intellectual property rights food and agriculture health and access to oceans this book creates a new theory of change in multilevel global governance

Entrepreneurship, Innovation, and Platforms Jeffrey Furman, Annabelle Gawer, Brian S. Silverman, Scott Stern, 2017-09-29 Despite recent advances in our understanding of how innovation and entrepreneurship impact the creation and appropriation of value numerous questions remain unanswered This volume draws together scholars working at the forefront of entrepreneurship strategy and innovation related domains to explore these questions

Art and Future Peter Stupples, Jane Venis, 2018-04-18 This selection of essays examines the future of art in a changing world In particular contributors discuss the agency of art in conditions of ecological threats to the natural world to climate change and the effects of globalisation neoliberal economics and mass tourism Following the lead of Chicago based Frances Whitehead whose essay is a key text some contributors take positions on working with local government agencies to embed art thinking within development projects going back to the art thinking at the centre of Kazimir Malevich's work in Vitebsk one hundred years ago in Russia Other papers highlight small scale art interventions that bring ecological issues to public notice and suggest positive responses whilst others discuss large scale problems brought about by the social economic and laissez faire history of the emerging Anthropocene with possible dystopic outcomes

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