

# **LIFE SCIENCES - QUICK FIX - PAPER TWO**

## **MEIOSIS**

### **STRUCTURE AND ARRANGEMENT OF CHROMOSOMES IN A NORMAL HUMAN KARYOTYPE.**

- Each chromosome comprises two chromatids✓
- held together by a centromere✓
- There are 23 pairs✓/46 chromosomes in
- human somatic cells✓/body cells
- which are arranged into homologous pairs✓
- that are similar in length✓
- carry genes for the same characteristics✓
- have alleles of a particular gene at the same loci✓and
- have the same centromere position✓
- Each somatic cell has 22 pairs✓/44 autosomes✓and
- a pair✓/2 gonosomes✓/sex chromosomes/X and Y chromosomes
- Autosomes are arranged in pairs from largest to smallest✓ in a karyotype
- Males have XY chromosomes✓
- Females have XX chromosomes✓
- The X chromosome is larger than the Y chromosome✓

### **BEHAVIOUR OF THE CHROMOSOMES DURING THE DIFFERENT PHASES OF MEIOSIS I.**

- During prophase✓ I
- chromosomes pair✓up/homologous pairs /bivalents form
- Crossing over✓exchange of genetic material occurs
- between chromatids✓/adjacent chromosome pairs
- During metaphase✓ I of meiosis
- homologous chromosomes✓/chromosome pairs are arranged
- at the equator✓of the cell
- in a random✓ way
- with the chromosome attached to the spindle fibre✓
- During anaphase✓ I
- chromosome pairs separate✓/chromosomes move to opposite poles
- During telophase✓ I
- the chromosomes reach the poles of the cell✓

# Life Science Paper Exemplar 2014

**David Tyfield, Rebecca Lave, Samuel  
Randalls, Charles Thorpe**



## **Life Science Paper Exemplar 2014:**

### 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 The Routledge Handbook of the Political Economy of Science David Tyfield, Rebecca Lave, Samuel Randalls, Charles Thorpe, 2017-04-28 The political economy of research and innovation R I is one of the central issues of the early twenty first century Science and innovation are increasingly tasked with driving and reshaping a troubled global economy while also tackling multiple overlapping global challenges such as climate change or food security global pandemics or energy security But responding to these demands is made more complicated because R I themselves are changing Today new global patterns of R I are transforming the very structures institutions and processes of science and innovation and with it their claims about desirable futures Our understanding of R I needs to change accordingly Responding to this new urgency and uncertainty this handbook presents a pioneering selection of the growing body of literature that has emerged in recent years at the intersection of science and technology studies and political economy The central task for this research has been to expose important but consequential misconceptions about the political economy of R I and to build more insightful approaches This volume therefore explores the complex interrelations between R I both in general and in specific fields and political economies across a number of key dimensions from health to environment and universities to the military The Routledge Handbook of the Political Economy of Science offers a unique collection of texts across a range of issues in this burgeoning and important field from a global selection of top scholars The handbook is essential reading for students interested in the political economy of science technology and innovation It also presents succinct and insightful summaries of the state of the art for more advanced scholars Designing Effective Feedback Processes in Higher Education Naomi Winstone, David Carless, 2019-06-27 Feedback is one of the most powerful influences on student achievement yet it is difficult to implement productively within the constraints of a mass higher education system Designing Effective Feedback Processes in Higher Education A Learning Focused Approach addresses the challenges of developing effective feedback processes in higher education combining theory and practice to equip and empower educators It places less emphasis on what teachers do in

terms of providing commentary and more emphasis on how students generate make sense of and use feedback for ongoing improvement Including discussions on promoting student engagement with feedback technology enabled feedback and effective peer feedback this book Contributes to the theory and practice of feedback in higher education by showcasing new paradigm feedback thinking focused on dialogue and student uptake Synthesises the evidence for effective feedback practice Provides contextualised examples of successful innovative feedback designs analysed in relation to relevant literature Highlights the importance of staff and student feedback literacy in developing productive feedback partnerships Supports higher education teachers in further developing their feedback practice Designing Effective Feedback Processes in Higher Education A Learning Focused Approach contributes to the theory and practice of higher education pedagogy by re evaluating how feedback processes are designed and managed It is a must read for educators researchers and academic developers in higher education who will benefit from a guide to feedback research and practice that addresses well recognised challenges in relation to assessment and feedback

**Genetically engineered products: Preparing for the future**

Patricia Machado Bueno Fernandes, Deise Maria Fontana Capalbo, Carmen Vicien, 2022-12-26 **Getting to Good**

Arthur L. Caplan, Barbara K. Redman, 2018-07-23 This book represents the first comprehensive gold standard reader on research integrity in the biomedical sciences Now more than ever the responsible conduct of research RCR has become critically important as new technologies affect research practices in both positive and negative ways Since learning to do science and practicing it brings researchers into contact with a vast array of ethical issues it is critical to know the standards and how they are evolving Indeed research integrity requires scientists at all levels to operate ethically in a system that supports ethical practice This unique foundational text covers all the relevant areas subject protection research misconduct and conflict of interest as well as newly quantified concerns about research bias and non reproducibility as well as other unique issues Developed by renowned experts this compelling title discusses the full range of practices and policies that should support research that is honestly produced and disseminated It also specifically incorporates topics noted by the National Institutes of Health as essential and required for training in RCR Getting to Good Research Integrity in the Biomedical Sciences is a major contribution to the literature on bioethics and will serve as an invaluable resource for all researchers students administrators and professionals interested in research ethics and integrity The Next Step in

Developmental Embodiment Research: Integrating Concepts and Methods Melanie Krüger, Vanessa Lux, Gustaf

Gredebäck, Amy L. Non, 2022-12-12 Chemical Control Michael Crowley, 2016-01-26 This thoroughly researched study highlights the international community's failure to regulate contemporary state research development marketing and or deployment of riot control agents and incapacitating chemical agent weapons *Preventing Weaponization of CNS-acting*

*Chemicals* Michael Crowley, Malcolm Dando, 2025-11-24 Recent advances in neuroscience the study of the mechanisms within the brain that underlie our behaviours and what happens when these go wrong have been profound However benignly

intended neurological research that seeks to understand dysfunction in the central nervous system CNS could be misused for example in the development of novel CNS acting chemical agent weapons for use in armed conflict and also in repression of civilian populations This book follows a 3 step Holistic Arms Control approach examining the bio chemical agents and relevant physiological systems they affect as well as associated dual use technologies that need to be regulated analysing a range of potentially applicable international law international arms control disarmament and other instruments and attendant control regimes constraining misuse and finally providing a strategy to strengthen existing regulatory mechanisms as well as suggest new measures to prevent the misuse of the neurosciences and associated dual use technologies without limiting the widespread health and other societal benefits that flow from their benign application Suitable for biochemists and researchers in the areas of neuroscience neurochemistry and neuropharmacology this book will also be of interest for those working in arms control disarmament and related legal fields as well as forensic medicine and toxicology

**Bulletin of the American Museum of Natural History** Joel Asaph Allen, 2019 Comprises articles on geology paleontology mammalogy ornithology entomology and anthropology *White Paper on Science and Technology*, 2011 *The Indian National Bibliography*, 2017-10 British Books, 1916 **Publishers' Circular and Booksellers' Record of British and Foreign Literature**, 1916 The Publishers' Circular and Booksellers' Record, 1919 **Yearbook** American Association of School Administrators, 1925 **The Publisher**, 1916 **Indian National Bibliography** B. S. Kesavan, 2017-12 *Distinguished Jews of America*, 1918 **Parliamentary Papers** Great Britain. Parliament. House of Commons, 1895 **Nature** Sir Norman Lockyer, 1896

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