

# **anatomy 2016**

**anatomy 2016** marks a significant year in the field of anatomical studies and advancements in medical education. This article delves into the key highlights of anatomy in 2016, including breakthroughs in educational techniques, technological advancements, and the evolving understanding of human anatomy. It will also explore the implications of these developments for medical professionals and students alike. Through this detailed examination, readers will gain insights into the state of anatomy as it stood in 2016, paving the way for future advancements in the field. The article will provide a comprehensive overview that includes educational resources, emerging technologies, and the importance of anatomy in various medical disciplines.

- Introduction to Anatomy 2016
- Key Developments in Anatomy Education
- Technological Innovations in Anatomy
- Challenges and Opportunities in the Field
- Future Directions for Anatomical Studies
- Conclusion

## **Key Developments in Anatomy Education**

In 2016, anatomy education experienced a transformation driven by innovative teaching methodologies aimed at enhancing student engagement and understanding. Traditional methods, such as dissection, were increasingly supplemented with modern techniques that leverage technology.

One notable development was the integration of virtual anatomy platforms into medical curricula. These platforms provided students with interactive 3D models of the human body, allowing for a detailed exploration of anatomical structures without the ethical concerns associated with cadaver dissection. This approach not only made anatomy more accessible but also catered to different learning styles.

Furthermore, flipped classroom models gained popularity, where students engaged with video lectures and digital resources at home and participated in interactive, hands-on activities during class time. This method encouraged active learning and improved retention of complex anatomical concepts.

## **Emerging Trends in Anatomy Teaching**

Several trends emerged in anatomy teaching throughout 2016, reflecting a shift towards more student-centered approaches. These included:

- **Use of Augmented Reality (AR):** AR applications allowed students to visualize and interact with anatomical structures in real-time, enhancing their spatial understanding.

- **Interprofessional Education:** Collaborative learning experiences were emphasized, encouraging medical, nursing, and allied health students to learn anatomy together, fostering teamwork in clinical settings.
- **Online Learning Resources:** The availability of open-access online resources and MOOCs (Massive Open Online Courses) expanded access to high-quality anatomy education for students worldwide.

## Technological Innovations in Anatomy

The year 2016 saw remarkable technological innovations that revolutionized the study of human anatomy. These advancements not only enhanced educational practices but also contributed to clinical applications.

One of the most significant innovations was the adoption of 3D printing technology. Medical professionals began to use 3D printing to create accurate physical models of patients' anatomical structures based on imaging data. This technology facilitated better surgical planning and improved patient-specific approaches to treatment.

Additionally, the development of sophisticated imaging techniques, such as high-resolution MRI and CT scans, provided deeper insights into human anatomy. These imaging modalities enabled clinicians to visualize complex anatomical relationships and make more informed decisions in diagnostics and treatment.

## The Role of Simulation in Anatomy Learning

Simulation technology also played a pivotal role in anatomy education in 2016. Virtual reality (VR) simulations allowed students to practice surgical techniques and explore human anatomy in a risk-free environment. The immersive nature of VR provided a hands-on learning experience, which was invaluable for skill development.

Furthermore, standardized patients, or actors trained to simulate real patients, were increasingly used in anatomy education. This approach provided students with opportunities to practice their clinical skills in realistic scenarios, bridging the gap between theoretical knowledge and practical application.

## Challenges and Opportunities in the Field

Despite the advancements in anatomy education and technology, 2016 also presented several challenges for the field. One major issue was the declining availability of cadavers for dissection, which raised concerns among educators about maintaining traditional anatomical teaching methods.

Moreover, the rapid pace of technological change created a need for educators to continually update their skills and curricula. Many institutions faced difficulties in integrating new technologies due to financial constraints and resistance to change.

However, these challenges also presented opportunities for innovation. Educators began to seek creative solutions, such as partnerships with technology companies and the development of hybrid learning models that

combined traditional and digital resources.

## **The Importance of Anatomy in Various Medical Disciplines**

Understanding human anatomy is fundamental to various medical disciplines, including surgery, radiology, and physical therapy. In 2016, the emphasis on anatomy knowledge continued to grow within these fields, highlighting its critical role in effective patient care.

For instance, surgeons relied on detailed anatomical knowledge to navigate complex procedures successfully. Radiologists utilized their understanding of anatomy to interpret imaging studies accurately, while physical therapists needed to comprehend anatomical relationships to design effective rehabilitation programs.

## **Future Directions for Anatomical Studies**

As anatomy education and research progress, several future directions emerged in 2016. The integration of artificial intelligence (AI) into anatomical studies is one such direction, with potential applications in personalized medicine and advanced imaging analysis.

Additionally, interdisciplinary collaborations between anatomists, engineers, and computer scientists are likely to yield innovative educational tools and resources. The continued evolution of digital platforms will further enhance access to anatomical knowledge and resources for students and professionals alike.

Another promising area for future exploration is the impact of genomics and molecular biology on the understanding of anatomy. As researchers uncover the genetic basis of anatomical variations, this knowledge may lead to new insights in developmental biology and evolutionary anatomy.

## **Conclusion**

In summary, anatomy 2016 was a pivotal year that encapsulated significant advancements in educational practices, technological innovations, and the ongoing importance of anatomy in medical fields. The integration of modern tools such as virtual reality, 3D printing, and augmented reality reshaped how anatomy was taught and understood. While challenges such as cadaver availability and the need for continuous educator training persisted, they also spurred innovative solutions and collaborative efforts. The future of anatomy education looks promising, with the potential for further integration of technology and interdisciplinary approaches, ensuring that the field continues to evolve and meet the needs of healthcare professionals.

## **Q: What were the major technological advancements in anatomy during 2016?**

A: In 2016, significant technological advancements in anatomy included the use of 3D printing for creating patient-specific anatomical models, the adoption of virtual reality simulations for educational purposes, and

enhanced imaging techniques like high-resolution MRI and CT scans that provided deeper insights into human anatomy.

**Q: How did anatomy education change in 2016?**

A: Anatomy education in 2016 shifted towards more interactive and student-centered approaches, incorporating virtual anatomy platforms, flipped classroom models, and collaboration among different health professional students to enhance learning experiences.

**Q: What challenges did anatomy education face in 2016?**

A: Anatomy education faced challenges such as the declining availability of cadavers for dissection, financial constraints in integrating new technologies, and the need for educators to continually update their skills and curricula to keep pace with advancements.

**Q: What role does anatomy play in medical disciplines?**

A: Anatomy is crucial in various medical disciplines, as it provides foundational knowledge necessary for surgery, accurate interpretation of imaging studies in radiology, and effective rehabilitation planning in physical therapy.

**Q: What is the future of anatomical studies beyond 2016?**

A: The future of anatomical studies beyond 2016 is likely to involve further integration of artificial intelligence, interdisciplinary collaborations, and exploration of the genetic basis of anatomical variations, enhancing understanding in developmental biology and personalized medicine.

**Q: How did virtual reality influence anatomy education in 2016?**

A: Virtual reality (VR) influenced anatomy education in 2016 by providing immersive simulations that allowed students to explore anatomical structures and practice surgical techniques in a risk-free environment, enhancing their learning experience and skill development.

**Q: What trends did anatomy teaching see in 2016?**

A: In 2016, anatomy teaching saw trends such as the use of augmented reality applications, the emphasis on interprofessional education among health disciplines, and the rise of online learning resources that made anatomy education more accessible.

## Q: Why is 3D printing significant for anatomy?

A: 3D printing is significant for anatomy as it allows the creation of accurate, patient-specific anatomical models from imaging data, facilitating better surgical planning and personalized approaches to treatment, thereby improving patient outcomes.

## Q: What impact did online resources have on anatomy education in 2016?

A: Online resources in 2016 expanded access to high-quality anatomy education, allowing students from various backgrounds to utilize digital platforms for learning, which helped democratize education and accommodate diverse learning styles.

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**anatomy 2016: Clinically Oriented Anatomy** Keith L. Moore, Arthur F. Dalley, 2018-07-12  
Renowned for comprehensive coverage, the best-selling Clinically Oriented Anatomy guides students from initial anatomy and foundational science courses through clinical training and practice. The eighth edition reflects significant new information and updates and maintains the highest standards for scientific and clinical accuracy. Comprehensive updates reflect changes in the clinical application of anatomy as well as new imaging technologies, focusing on the anatomy that students need to know.

**anatomy 2016: Anatomy and Plasticity in Large-Scale Brain Models** Markus Butz, Wolfram Schenck, Arjen van Ooyen, 2017-01-05  
Supercomputing facilities are becoming increasingly available for simulating activity dynamics in large-scale neuronal networks. On today's most advanced supercomputers, networks with up to a billion of neurons can be readily simulated. However, building biologically realistic, full-scale brain models requires more than just a huge number of neurons. In addition to network size, the detailed local and global anatomy of neuronal connections is of crucial importance. Moreover, anatomical connectivity is not fixed, but can rewire throughout life (structural plasticity)—an aspect that is missing in most current network models, in which plasticity is confined to changes in synaptic strength (synaptic plasticity). The papers in this Ebook, which may broadly be divided into three themes, aim to bring together high-performance computing with recent experimental and computational research in neuroanatomy. In the first theme (fiber connectivity), new methods are described for measuring and data-basing microscopic and macroscopic connectivity. In the second theme (structural plasticity), novel models are introduced that incorporate morphological plasticity and rewiring of anatomical connections. In the third theme (large-scale simulations), simulations of large-scale neuronal networks are presented with an emphasis on anatomical detail and plasticity mechanisms. Together, the articles in this Ebook make the reader aware of the methods and models by which large-scale brain networks running on supercomputers can be extended to include anatomical detail and plasticity.

**anatomy 2016: Digital Anatomy** Jean-François Uhl, Joaquim Jorge, Daniel Simões Lopes, Pedro

F. Campos, 2021-05-14 This book offers readers fresh insights on applying Extended Reality to Digital Anatomy, a novel emerging discipline. Indeed, the way professors teach anatomy in classrooms is changing rapidly as novel technology-based approaches become ever more accessible. Recent studies show that Virtual (VR), Augmented (AR), and Mixed-Reality (MR) can improve both retention and learning outcomes. Readers will find relevant tutorials about three-dimensional reconstruction techniques to perform virtual dissections. Several chapters serve as practical manuals for students and trainers in anatomy to refresh or develop their Digital Anatomy skills. We developed this book as a support tool for collaborative efforts around Digital Anatomy, especially in distance learning, international and interdisciplinary contexts. We aim to leverage source material in this book to support new Digital Anatomy courses and syllabi in interdepartmental, interdisciplinary collaborations. Digital Anatomy - Applications of Virtual, Mixed and Augmented Reality provides a valuable tool to foster cross-disciplinary dialogues between anatomists, surgeons, radiologists, clinicians, computer scientists, course designers, and industry practitioners. It is the result of a multidisciplinary exercise and will undoubtedly catalyze new specialties and collaborative Master and Doctoral level courses world-wide. In this perspective, the UNESCO Chair in digital anatomy was created at the Paris Descartes University in 2015 ([www.anatomieunesco.org](http://www.anatomieunesco.org)). It aims to federate the education of anatomy around university partners from all over the world, wishing to use these new 3D modeling techniques of the human body.

**anatomy 2016:** Organization of the White Matter Anatomy in the Human Brain Laurent Petit, Silvio Sarubbo, 2020-01-10

**anatomy 2016: Functional and Clinical Neuroanatomy** Jahangir Moini, Pirouz Piran, 2020-02-21 Functional and Clinical Neuroanatomy: A Guide for Health Care Professionals is a comprehensive, yet easy-to read, introduction to neuroanatomy that covers the structures and functions of the central, peripheral and autonomic nervous systems. The book also focuses on the clinical presentation of disease processes involving specific structures. It is the first review of clinical neuroanatomy that is written specifically for nurses, physician assistants, nurse practitioners, medical students and medical assistants who work in the field of neurology. It will also be an invaluable resource for graduate and postgraduate students in neuroscience. With 22 chapters, including two that provide complete neurological examinations and diagnostic evaluations, this book is an ideal resource for health care professionals across a wide variety of disciplines. - Written specifically for mid-level providers in the field of neurology - Provides an up-to-date review of clinical neuroanatomy based on the latest guidelines - Provides a logical, step-by-step introduction to neuroanatomy - Offers hundreds of full-color figures to illustrate important concepts - Highlights key subjects in Focus On boxes - Includes Section Reviews at critical points in the text of each chapter

**anatomy 2016:** ICEL2016-Proceedings of the 11th International Conference on e- Learning Prof. Dr. Rozhan M. Idrus and Dr Nurkhamimi Zainuddin, 2016

**anatomy 2016: Human Neuroanatomy** Reha Erzurumlu, Gulgun Sengul, Emel Ulupinar, 2024-06-17 Human Neuroanatomy is a unique resource that presents for readers the neuroanatomy of the central and peripheral nervous system together. This atlas-style reference features human brain sections with radiological correlations, and original illustrations accompanying macroscopic and microscopic photographs. Chapters include a large number of illustrations in the form of photographs, Illustrations, and MR imaging, including a human brain atlas. Boxes within each chapter contain clinical information, with tables of topic summaries. Presented along with clinical approaches and analyses, this is a reference for all neuroscientists, neurosurgeons, neurologists, medical students, and all students of neuroscience. - Presents the neuroanatomy of both the central and peripheral nervous systems - Features a high number of illustrations in the form of photographs, illustrations, and MRI - Includes a human brain atlas - Contains boxes of clinical information and tables of topic summaries within each chapter

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Technicians, 6th Edition provides 5,000 VTNE-style questions that have been reviewed and updated to reflect the latest changes to the Veterinary Technician National Examination. The book begins with multiple-choice questions on basic knowledge, including anatomy and physiology, hospital management, calculations, and terminology. It continues with a Q&A review of core subjects such as pharmacology, surgical nursing, laboratory procedures, diagnostic imaging, and pain management. Written by veterinary technology educator Heather Prendergast, this review includes an Evolve website allowing you to create customized, timed practice exams that mirror the VTNE experience. - More than 5,000 multiple-choice questions are rigorously reviewed, mirror the type of questions found on the VTNE, and are designed to test factual knowledge, reasoning skills, and clinical judgment. - Detailed rationales are included in the print text and on the Evolve website, reinforcing student knowledge and providing the reasoning behind answers. - Organization of the book into primary subject areas reflects the latest version of the VTNE. - Customized exam generator on Evolve offers a simulated test-taking experience with customized practice tests and timed practice exams with instant feedback and extended rationales. - NEW! More than 200 new questions are added to this edition.

**anatomy 2016: Biomedical Visualisation** Paul M. Rea, 2019-12-10 With the rapid advances of technology, visualisation in the sciences using computers, is a rapidly expanding and evolving area. Visualisation in its broadest sense represents how objects, situations, applications, methodologies and information can be seen and presented. This proposal is to incorporate work in the field of biomedical visualisation and will encompass techniques of using computers to visualise information. This will include photogrammetry, virtual and augmented reality, 3D printing, e-tutorial and website design and digital reconstructions and animations. It will showcase research, innovations and current work in the field of biomedicine, life sciences, veterinary medicine and computing sciences presenting data in an innovative and engaging way to showcase complex data and information in an easier to access format.

**anatomy 2016: Management and Rehabilitation of Spinal Cord Injuries** Hyun-Yoon Ko, 2022-05-17 This comprehensive, up-to-date guide to the rehabilitation care of persons with spinal cord injuries and disorders draws on the ever-expanding scientific and clinical evidence base to provide clinicians with the knowledge needed in order to make optimal management decisions during the acute, subacute, and chronic phases. The second edition re-organized contents as more clinically practical use, consisting of 48 chapters. Also, new chapters such as kinesiology and kinematics of functional anatomy of the extremities are added as well. Readers will also find chapters on the basics of functional anatomy, neurological classification and evaluation, injuries specifically in children and the elderly, and psychological issues. The book will be an invaluable aid to assessment and medical care for physicians and other professional personnel in multiple specialties, including physiatrists, neurosurgeons, orthopedic surgeons, internists, critical care physicians, urologists, neurologists, psychologists, and social workers.

**anatomy 2016: Schmidek and Sweet: Operative Neurosurgical Techniques E-Book** Alfredo Quinones-Hinojosa, 2021-04-22 Schmidek and Sweet has been an indispensable reference for neurosurgery training and practice for nearly 50 years, and the 7th Edition of Operative Neurosurgical Techniques continues this tradition of excellence. A new editorial board led by editor-in-chief Dr. Alfredo Quinones-Hinojosa, along with more than 330 internationally acclaimed contributors, ensures that readers stay fully up to date with rapid changes in the field. New chapters, surgical videos, and quick-reference features throughout make this edition a must-have resource for expert procedural guidance for today's practitioners. - Discusses indications, operative techniques, complications, and results for nearly every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. - Covers the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arterio-venous malformations. - Includes new chapters on bypass techniques in vascular disease, previously coiled

aneurysms, CSF diversion procedures, surgical management of posterior fossa cystic and membranous obstruction, laser-ablation techniques, and brain stem tumors. - Explores hot topics such as wide-awake surgery and ventriculo-peritoneal, ventriculoatrial and ventriculo-pleural shunts. - Provides detailed visual guidance with more than 1,600 full-color illustrations and 50 procedural videos. - Contains quick-reference boxes with surgical pearls and complications. - Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

**anatomy 2016:** *Advances in Family Practice Nursing, 2025* Linda Keilman, 2025-04-29

*Advances in Family Practice Nursing* reviews the year's most important findings and updates within the field in order to provide family practice nurse practitioners with the current clinical information they need to improve patient outcomes. A distinguished editorial board, led by Linda Keilman, identifies key topics in pediatrics, adult/gerontology, women's health, and primary care and invites preeminent authors to contribute original articles devoted to these topics. These insightful overviews in family practice nursing inform and enhance clinical practice by bringing concepts to a clinical level and exploring their everyday impact on patient care. - Contains 22 articles on timely topics such as nurse practitioners and mental health disparities; the advanced practice nurse and ending elder abuse and mistreatment; mental health during pregnancy and the first year postpartum; RSV infections and the new vaccine; breastfeeding for Black women; bone density screenings; and more - Provides in-depth, clinical reviews in family practice nursing, providing actionable insights for clinical practice - Presents the latest information in the field under the leadership of an experienced editorial team. Authors synthesize and distill the latest research and practice guidelines to create these timely topic-based reviews

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**anatomy 2016:** 4 th International Conference on Lifelong Education and Leadership for ALL-ICLEL 2018 Prof. Dr. Osman TITREK, Gözde Sezen Gültekin, Agnieszka Zembrzuska, 2018-12-28 Copyright © 2018, ICLEL Conferences All rights reserved by ICLEL Conferences

**anatomy 2016:** ACL Injuries in the Female Athlete Frank R. Noyes, Sue Barber-Westin, 2018-09-07 This successful book, now in a revised and updated second edition, reviews all aspects of anterior cruciate ligament (ACL) injuries in female athletes, with the focus on complete, noncontact ACL injuries. The opening section discusses anatomy and biomechanics and explains the short- and long-term impacts of complete ACL ruptures, including long-term muscle dysfunction and joint arthritis. Risk factors and possible causes of the higher noncontact ACL injury rates in female athletes compared with male athletes are then discussed in depth. Detailed attention is devoted to neuromuscular training programs and their effectiveness in reducing noncontact ACL injury rates in female athletes, as well as to sports-specific ACL injury prevention and conditioning programs of proven value. Rehabilitation programs after ACL injury and reconstruction that reduce the risk of a future injury are explored, and the concluding section looks at worldwide implementation of neuromuscular ACL injury prevention training and future research directions. The book will be of value to orthopedic surgeons, physical therapists, athletic trainers, sports medicine primary care physicians, and strength and conditioning specialists.

**anatomy 2016:** *Pain Management* Viduranga Yashasvi Waisundara, Ines Banjari, Jelena Balkić, 2021-03-24 Pain is a health issue that warrants significant attention and has an immense impact on global healthcare systems. This book focuses on pain, particularly on its management, by providing fresh perspectives and novel insights, while at the same time examining related topics that have often been overlooked. Given that there is no permanent cure for pain, the book primarily serves as an update to the existing knowledge. Topics covered include the biochemical pathways of pain as well as pharmaceutical and clinical management of pain to ensure health and wellbeing.



**anatomy 2016: Introduction to Criminology** Pamela J. Schram, Stephen G. Tibbetts, 2017-02-13  
Introduction to Criminology, Why Do They Do It?, Second Edition, by Pamela J. Schram Stephen G. Tibbetts, offers a contemporary and integrated discussion of the key theories that help us understand crime in the 21st century. With a focus on why offenders commit crimes, this bestseller skillfully engages students with real-world cases and examples to help students explore the fundamentals of criminology. To better align with how instructors actually teach this course, coverage of violent and property crimes has been integrated into the theory chapters, so students can clearly understand the application of theory to criminal behavior. Unlike other introductory criminology textbooks, the Second Edition discusses issues of diversity in each chapter and covers many contemporary topics that are not well represented in other texts, such as feminist criminology, cybercrime, hate crimes, white-collar crime, homeland security, and identity theft. Transnational comparisons regarding crime rates and the methods other countries use to deal with crime make this edition the most universal to date and a perfect companion for those wanting to learn about criminology in context.

**anatomy 2016: Studying Tree Responses to Extreme Events** Achim Bräuning, Andreas Bolte, Cristina Nabais, Sergio Rossi, Ute Sass-Klaassen, 2017-06-05  
Trees are among the longest-living organisms. They are sensitive to extreme climatic events and document the effects of environmental changes in form of structural modifications of their tissues. These modifications represent an integrated signal of complex biological responses enforced by the environment. For example, temporal change in stem increment integrates multiple information of tree performance, and wood anatomical traits may be altered by climatic extremes or environmental stress. Recent developments in preparative tools and computational image analysis enable to quantify changes in wood anatomical features, like vessel density or vessel size. Thus, impacts on their functioning can be related to climatic forcing factors. Similarly, new developments in monitoring (cambial) phenology and mechanistic modelling are enlightening the interrelationships between environmental factors, wood formation and tree performance and mortality. Quantitative wood anatomy is a reliable indicator of drought occurrence during the growing season, and therefore has been studied intensively in recent years. The variability in wood anatomy not only alters the biological and hydraulic functioning of a tree, but may also influence the technological properties of wood, with substantial impacts in forestry. On a larger scale, alterations of sapwood and phloem area and their ratios to other functional traits provide measures to detect changes in a tree's life functions, and increasing risk of drought-induced mortality with possible impacts on hydrological processes and species composition of plant communities. Genetic variability within and across populations is assumed to be crucial for species survival in an unpredictable future world. The magnitude of genetic variation and heritability of adaptive traits might define the ability to adapt to climate change. Is there a relation between genetic variability and resilience to climate change? Is it possible to link genetic expression and climate change to obtain deeper knowledge of functional genetics? To derive precise estimates of genetic determinism it is important to define adaptive traits in wood properties and on a whole-tree scale. Understanding the mechanisms ruling these processes is fundamental to assess the impact of extreme climate events on forest ecosystems, and to provide realistic scenarios of tree responses to changing climates. Wood is also a major carbon sink with a long-term residence, impacting the global carbon cycle. How well do we understand the link between wood growth dynamics, wood carbon allocation and the global carbon cycle? Papers contribution to this Research Topic will cover a wide range of ecosystems. However, special relevance will be given to Mediterranean-type areas. These involve coastal regions of four continents, making Mediterranean-type ecosystems extremely interesting for investigating the potential impacts of global change on growth and for studying responses of woody plants under extreme environmental conditions. For example, the ongoing trend towards warmer temperatures and reduced precipitation can increase the susceptibility to fire and pests. The EU-funded COST Action STREeSS (Studying Tree Responses to extreme Events: a SynthesiS) addresses such crucial tree biological and forest ecological issues by providing a collection of important methodological and

scientific insights, about the current state of knowledge, and by opinions for future research needs.

**anatomy 2016: Chromosomal Abnormalities** Tulay Askin Celik, Subrata Dey, 2020-11-11

Chromosomes are vital components of genetic material, and, as such, disruption or changes to the structure of chromosomes can result in different health problems and deficits. This book explains chromosomal abnormalities and their effects on living organisms, including humans and plants. Classical and molecular cytogenetics techniques have a considerable number of potential applications, especially in clinical trials and biomedical diagnosis, making them a strong and insightful complement to other molecular and genomic approaches. Chapters cover topics including Down syndrome, fetal ultrasounds, acute myeloid leukemia, and Phelan-McDermid syndrome, among others.

**anatomy 2016: Impact of Technology on Human Behaviors in Medical Professions Education**

Muhammad Azeem Ashraf, Jinbo He, Samson Maekele Tsegay, 2025-02-20 Human behaviors are essential in understanding how individuals engage in medical science academic activities. Healthcare systems across the globe have witnessed a significant shift in recent years by integrating technology in innovating new methods and practices to improve educational practices. Therefore, pedagogical practices in medical sciences are expected to be consistent with the current developments so that medical students are prepared with the necessary skills when entering workplaces. In addition, the excessive use of technology has created severe concerns in the academic community that needs further investigation. Thus, it is crucial to know how teachers and students in medical sciences engage themselves in challenging behaviors, particularly in academic activities. This Research Topic aims to call for papers examining the influence of technology on human behavior in medical education. We invite researchers, practitioners, teachers, and students in all medical science disciplines to submit their research papers, encompassing Quantitative studies, Qualitative studies, Empirical Case studies, Mixed-Method studies, Experimental Research, and Review studies. This Research Topic welcomes articles about but not only limited to the following topics: 1. impact of technology on human behavior in medical professions teaching 2. impact of technology on human behavior in medical professions training and learning 3. effect of different social and psychological factors on healthy/unhealthy use of technology in medical sciences

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