TheScientist

Creative Services Content Calendar | 2025

Content Calendar

Take a look at some of the exciting new sponsorship opportunities listed in our 2025 Creative Services Content Calendar. Whether your goals are brand recognition, lead generation, education, or reader engagement, we will help you achieve them!

2025	WEBINARS	SYMPOSIA	EBOOKS	POSTERS	PODCASTS	BRUSH UP SUMMARIES	NEWSLETTERS
JAN	Spatial Biology		Animal Models	Infographic: Lab Sustainability		PFAS Health Effects; Cancer Biomakers	High Throughput Screening; Biomarkers
FEB	Synthetic Biology	Infectious Diseases			Tissue Regeneration	Lipidomics; Foodborne Illness	Sequencing; Immunotherapy
MAR	CRISPR	Cancer (2-day)	Multiomics in Cancer Research	Toolkit: Microbiome and the Brain		Checkpoint Inhibitors; Drug Development Process	Cell Therapy; Spatial Biology
APR	Immunology				Neuroscience	Phage Therapy; G-Coupled Protein Receptors (GPCRs)	Cell Culture; Vaccines
MAY	Lab Automation	Biomarkers	Mass Spectrometry	Infographic: Target-Based Drug Discovery		Tau Protein; Hormones	Precision Medicine; Gene Therapy
JUN	Cell Therapy	Gene Editing		Toolkit: Autoimmune disease	Cancer	CRISPR Therapeutics; Biofilms	Proteomics; Multiomics
JUL	Microbiome		Spatial Biology			Biologics; Conjugate Vaccines	Biomarkers; Epigenetics
AUG	Neuroscience			Infographic: PFAS	Gene Editing	Histone Modifications; Autoantibodies	Biotechnology; Spatial Biology
SEPT	Cancer	Cell and Gene Therapy		Toolkit: Cardiovascular Disease		DNA Methylation; Confocal Microscopy	Stem Cells; Metabolomics
OCT	Sequencing	Organoids	Gene Editing		Infectious Disease	Bacterial Growth; Immunoassays	Multiomics; Cell Therapy
NOV	Mass Spectrometry					Electron Microscopy; Molecular Diagnostics	Sequencing; Biomarkers
DEC	Organoids		Infectious Disease	Toolkit: Tumor Microenvironment	Human Physiology	Tardigrade Research; Pharmacogenomics	Cell Culture; Diagnostics

Multi-Sponsored Packages

Webinars

Multi-sponsor webinars allow up to 6 sponsors per event. Gain access to the full registration list giving you a low-lift method to produce high-quality leads.

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SPONSORS RECEIVE

- Full registration and attendee lists
- Logo on registration page
- Opportunity to provide up to 3 resources for attendees to download

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Multi-sponsor ebooks allow up to 4 sponsors per topic. Featuring exclusive content from *The Scientist*, our ebooks offer readers a valuable resource.

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(Single-sponsored)

These custom articles posted on *The Scientist*'s website introduce researchers to new tools, methods, technologies, and emerging research fields.

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- Banner ad (728x90)
- Full metrics report

January

WEBINARS	**Spatial Biology** | Decoding Cancer with Single-Cell Spatial Multiomics To fully understand cancer, researchers must use methods that allow them to fully appreciate heterogeneity within tumors and across the tumor microenvironment. This webinar will focus on cancer research involving single-cell spatial multiomics. **KEYWORDS:** *multiomics, cancer research, single-cell techniques, spatial biology*
EBOOKS	**Animal Models** | From Cone Snails to Grizzly Bears: Unusual Animal Models Rodents are arguably the most used animal models in biology research. However, scientists can employ alternative animal models to discover new information about their chosen topics. This ebook will emphasize the importance of unusual animal models in research, potentially including work on vision, diabetes, pain treatment, cardiology, and more. **KEYWORDS:** *animal models, therapeutic development, vision, diabetes, cardiac physiology, pain management*
POSTERS	**Infographic: Lab Sustainability** | Turn Over a New Leaf: Improving Laboratory Sustainability Biology laboratories have a huge effect on the environment because of their electricity and water consumption, plastic waste generation, minimal equipment maintenance, and harmful chemical usage. This infographic will highlight tips to increase laboratory sustainability. **KEYWORDS:** *sustainability, laboratory, environment, carbon footprint, waste, energy, plastics, water*
BRUSH UP SUMMARIES	**PFAS Health Effects** **KEYWORDS:** *synthetic chemistry, metabolomics, mass spectrometry, pollution, immunology, cancer, epigenomics, toxicity, pregnancy* **Cancer Biomarkers** **KEYWORDS:** *cancer, biomarkers, lung cancer, breast cancer, blood test, cancer genomics*
NEWSLETTERS	**High Throughput Screening; Biomarkers**

February

WEBINARS	**Synthetic Biology** | Tools to Treat the Brain Neurological disorders have been historically difficult to treat due to the intractable nature of the brain and nervous system. This webinar will highlight synthetic biology researchers striving to develop new tools for repairing brain disorders. **KEYWORDS:** *synthetic biology, neuroscience, central nervous system, brain, bioengineering, neurological disorders, neurodegenerative diseases*
SYMPOSIA	**Infectious Diseases** | New Frontiers in Vaccine Development Preventing infection through vaccination has never been more important. This symposium will explore the current state of vaccine research and development for emerging and common pathogens. **KEYWORDS:** *vaccines, microbiology, immunology, emerging pathogens, respiratory diseases, mRNA vaccines, virology, bacteriology*
PODCASTS	**Tissue Regeneration** | From Development to Regeneration: The Power of Bioelectricity Bioelectrical gradients guide embryonic development by creating an electrical scaffold for tissue and organ growth. They also play a role in tissue regeneration. This episode will highlight how researchers harness the power of bioelectricity to guide tissue regeneration. **KEYWORDS:** *bioelectricity, tissue regeneration, stem cells, embryonic development*
BRUSH UP SUMMARIES	**Lipidomics** **KEYWORDS:** *lipidomics, mass spectrometry, NMR, liquid chromatography, HPLC, metabolomics, metabolic disease, diabetes* **Foodborne Illness** **KEYWORDS:** *foodborne illness, microbiology, bacterial infection, lead poisoning, food poisoning, food contamination, food science*
NEWSLETTERS	**Sequencing; Immunotherapy**

March

WEBINARS	**CRISPR |** Unlikely Targets: Unconventional CRISPR Applications From antivenom discovery to boosting bioengineering, CRISPR technologies enable more than gene therapies. This webinar will feature out of the ordinary CRISPR applications in life science research and beyond. **KEYWORDS:** *CRISPR, synthetic biology, materials sciences, antivenom*
SYMPOSIA	**Cancer |** Advances in Cancer Therapies and Diagnostics Cutting-edge research and innovations are transforming the cancer landscape. **This two-day symposium** will highlight basic, preclinical, and clinical cancer research involving new diagnostics and therapeutics. **KEYWORDS:** *cancer research, cancer therapeutics, cancer diagnostics, drug discovery, liquid biopsy, sequencing, imaging, artificial intelligence*
EBOOKS	**Multiomics in Cancer Research |** Multiomics Hits with Biomarker Potential As technologies advance, researchers seek new ways to understand health and disease through biomarkers. This ebook will highlight the latest multiomics research geared toward discovering or characterizing disease biomarkers. **KEYWORDS:** *biomarkers, multiomics, genomics, transcriptomics, epigenomics, proteomics, metabolomics*
POSTERS	**Toolkit: Microbiome and the Brain |** The Gut-Brain Connection: Linking the Gut Microbiome and Neurological Diseases The gut microbiome influences the homeostasis of the intestinal tract as well as distant organs, such as the brain. Researchers demonstrated that the gut microbiome affects the development and progression of neurodegenerative and psychiatric disorders. This poster will highlight recent findings connecting gut microbiota with Parkinson's disease, Alzheimer's disease, major depressive disorder, and generalized anxiety disorder. **KEYWORDS:** *gut microbiome, neurological diseases, neurodegenerative diseases, Parkinson's disease, Alzheimer's disease, psychiatric disorders, major depressive disorder, generalized anxiety disorder*
BRUSH UP SUMMARIES	**Checkpoint Inhibitors** **KEYWORDS:** *cancer therapeutics, immunotherapy, immune checkpoint blockade, T cells, tumor microenvironment* **Drug Development Process** **KEYWORDS:** *drug development, drug discovery, drug production, drug testing, pharm & biotech, FDA approval, clinical research*
NEWSLETTERS	**Cell Therapy; Spatial Biology**

April

WEBINARS	**Immunology |** The Immunology of the Brain While the brain is an immune-privileged site, numerous immune responses occur in this organ. This webinar will explore the immunology of the brain, both in terms of its normal function and its role in cancer, neurological disorders, and infectious diseases. **KEYWORDS:** *immune response, blood-brain barrier, inflammation, gut-brain axis, body-brain axis, neurodegeneration, immunotherapy, infectious disase*
PODCASTS	**Neuroscience |** All the Feels: The Emerging Neuroscience of Gut Touch Deep within the gut's epithelial layer are specialized sensory cells that convert mechanical stimuli to electrical signals and convey this information to nerve cells. This episode will highlight the latest research related to the neuroscience of gut touch and its role in gastrointestinal health and disease. **KEYWORDS:** *neuroscience, mechanosensitive receptors, digestion, gastrointestinal disorder*
BRUSH UP SUMMARIES	**Phage Therapy** **KEYWORDS:** *phage therapy, infectious disease, antimicrobial, bacteriophage, biofilm, antibiotic resistance* **G-Coupled Protein Receptors (GPCRs)** **KEYWORDS:** *G protein-coupled receptor, GPCR, cell signaling, protein-protein interactions, Nobel Prize*
NEWSLETTERS	**Cell Culture; Vaccines**

May

WEBINARS	**Lab Automation |** The Advent of Automated and AI-Driven Benchwork This webinar will feature cutting edge liquid handling-based research at the forefront of automated laboratory breakthroughs and AI-based discovery. These technologies enable faster and more efficient workflows for single-cell methods, next-generation sequencing, cell culture, and beyond. **KEYWORDS:** *automation, AI, liquid handling, next-generation sequencing, single-cell analysis, cell biology*
SYMPOSIA	**Biomarkers |** Understanding Disease through Biomarkers From simple physiological measurements and tiny molecules to imaging and histologic information, biomarkers found within the human body provide myriad insights into health and disease. This symposium will explore how biomarkers illuminate disease mechanisms and their progression in the laboratory and the clinic. **KEYWORDS:** *biomarkers, molecular markers, diagnostics, disease prognosis, biopsy, liquid biopsy*
EBOOKS	**Mass Spectometry |** Mass Spectrometry: A Revolution in Protein Analysis Understanding protein interactions and enzyme activity is key when solving biological problems, including drug development. This ebook will explore mass spectrometry for proteomics and protein function research. **KEYWORDS:** *proteomics, drug development, protein interactions, mass spectrometry, enzymes, LC-MS*
POSTERS	**Infographic: Target-Based Drug Discovery |** Improving Polypharmacology for Multipurpose Drug Targeting This infographic will feature growing interest in polypharmacology, which involves intentionally developing drugs with multiple targets. It will highlight historical challenges, potential benefits, and the latest advances that help make this approach to target-based drug discovery more feasible. **KEYWORDS:** *target-based drug discovery, pharmacology, drug repurposing, AI*
BRUSH UP SUMMARIES	**Tau Protein** **KEYWORDS:** *Tau protein, tauopathy, Alzheimer's Disease, neurofibrillary tangles, neurobiology, neurodegeneration, biomarkers, phosphorylation* **Hormones** **KEYWORDS:** *hormones, endocrinology, signaling pathways, pituitary gland, estrogen, testosterone, sex hormones, growth hormone, hormone therapy*
NEWSLETTERS	**Precision Medicine; Gene Therapy**

June

WEBINARS	**Cell Therapy |** Stem Cell Strategies for Skin Repair Wound healing and skin regeneration represent formidable challenges in extreme circumstances, such as burns or inflammatory skin diseases. This webinar will feature the latest stem cell therapy approaches for skin regeneration, with an emphasis on burn healing and inflammatory disorders. **KEYWORDS:** *skin, burn, stem cell therapies, stem cells, cell therapy, inflammation*
SYMPOSIA	**Gene Editing |** The Future of CRISPR CRISPR-based technologies have taken the world by storm thanks to the technique's ability to edit nucleic acids. The symposium will highlight the latest research using CRISPR to understand and repair common and rare diseases. **KEYWORDS:** *CRISPR, gene editing, gene therapy, precision medicine, genetic diseases, rare diseases, cancer*
POSTERS	**Toolkit: Autoimmune Disease |** Advances in Autoimmune Disease Research Understanding and treating autoimmune disorders is challenging for scientists and often frustrating for patients, which underscores the importance of new innovations in this field. This poster will highlight recent advances in autoimmunity research, including biologic and cell-based therapies, precision medicine approaches, new drug targets, and microbiome contributions. **KEYWORDS:** *autoimmunity, biologics, immunotherapy, cell therapy, precision medicine, microbiome, drug discovery*
PODCASTS	**Cancer |** Rise of the Nanorobots To improve therapeutic efficacy, researchers are developing nanorobots that precisely deliver treatments to targeted cancer cells. This episode will highlight nanotechnology research aimed at fighting cancer at the source. **KEYWORDS:** *cancer therapeutics, cancer research, nanotechnology, nanobots, nanorobotics, target-based drug delivery*
BRUSH UP SUMMARIES	**CRISPR Therapeutics** **KEYWORDS:** *CRISPR, gene editing, gene therapy, sickle cell disease, precision medicine* **Biofilms** **KEYWORDS:** *biofilm, microbiology, infectious disease, antibiotic resistance, phage therapy, bioengineering*
NEWSLETTERS	**Proteomics; Multiomics**

July

WEBINARS	**Microbiome |** Exploring the Gut-Lung Axis in Health and Disease This webinar will feature the latest research on how gut and lung microbes communicate to influence normal and disease states, with a focus on the biomolecular pathways and the ways in which researchers target them for therapeutic applications. **KEYWORDS:** *gut microbiota, gut microbiome, gut inflammation, gut, lung, lung microbiome, lung disease*
EBOOKS	**Spatial Biology |** Diving into the World of Spatial Biology Techniques Spatial biology techniques are vital tools in the omics toolbox and have allowed researchers to examine the genome, transcriptome, proteome, metabolome, and epigenome of individual cells. This ebook will highlight current research using spatial biology technologies alone or in combination. **KEYWORDS:** *spatial biology, spatial transcriptomics, multiomics, genome, transcriptome, proteome, metabolomics, epigenome*
BRUSH UP SUMMARIES	**Biologics** **KEYWORDS:** *biologics, immunology, autoimmune disease, drug development, psoriasis, rheumatoid arthritis, cancer immunotherapy* **Conjugate Vaccines** **KEYWORDS:** *conjugate vaccines, infectious disease, vaccine design, meningitis, pneumonia, nicotine, addiction, typhoid fever*
NEWSLETTERS	**Biomarkers; Epigenetics**

August

WEBINARS	**Neuroscience |** Screening 3D Brain Cell Cultures for Drug Discovery 3D cell cultures in the form of organoids and spheroids have been game-changers for neurological disorder drug discovery. This webinar will highlight the culture models that better recapitulate the brain and open the door for high throughput screening of large compound libraries. **KEYWORDS:** *organoids, spheroids, high throughput screening, neurodegenerative disorders, opioid use disorder, neurological conditions, drug discovery, compound libraries*
POSTERS	**Infographic: PFAS |** Uncovering the Harmful Effects of PFAS Exposure on the Human Body This infographic will show the tissues and organs of the human body that are affected by perfluoroalkyl and polyfluoroalkyl substances (PFAS) exposure. It will highlight recent research findings including results associating PFAS with the declining bone mineral density in adolescents. **KEYWORDS:** *chemicals, health, environmental exposure, bones, cancer reproductive health*
PODCASTS	**Gene Editing |** The Future of Gene Editing Goes Back to Basics with Recombinases Following the explosion of CRISPR-based gene editing methods, some researchers have looked to foundational biological processes like programmable recombination to improve and one-up the latest gene editing techniques. This episode will highlight new gene editing technologies that use recombinase-based biology for larger gene edits with higher fidelity. **KEYWORDS:** *gene editing, DNA recombination, cre recombinase, CRISPR, prime editing, jumping genes*
BRUSH UP SUMMARIES	**Histone Modifications** **KEYWORDS:** *Histones, histone acetylation, histone deacetylase, histone methylation, histone modification, epigenome, chromatin* **Autoantibodies** **KEYWORDS:** *autoimmunity, diabetes, immunology, autoimmune disease, biomarkers, antibody*
NEWSLETTERS	**Biotechnology; Spatial Biology**

September

WEBINARS	**Cancer |** Unraveling Autophagy's Complex Role in Cancer Autophagy is an important process that cells use to degrade damaged organelles and recycle nutrients. However, researchers have established that autophagy plays a role in both tumor suppression and progression. This webinar will examine the latest research about the complicated effects of autophagy on cancer. **KEYWORDS:** *cancer, autophagy, tumor suppression, mitophagy, metastasis*
SYMPOSIA	**Cell and Gene Therapy |** AAV Avenues for Cell and Gene Therapy From generating therapeutic cells to delivering genes into tissues, adeno-associated viruses (AAVs) are at the forefront of cell and gene therapy development. This symposium will feature cell and gene therapy research using and improving AAV-based technologies. **KEYWORDS:** *AAV, adeno-associated virus, gene therapy, cell therapy, hematology, cancer, neurological disorders, metabolic disease, cardiovascular disease, degenerative eye disease*
POSTERS	**Toolkit: Cardiovascular Disease |** Exploring the Link Between Fasting and Cardiovascular Health Fasting and time restricted eating have become increasingly popular approaches to improving and maintaining health. In addition to promoting weight loss and reducing inflammation, fasting is a promising strategy for improving metabolic and cardiovascular health. This poster will highlight the latest research related to the cellular and molecular mechanisms through which fasting affects the cardiovascular system. **KEYWORDS:** *fasting, cardiovascular disease, coronary heart disease, eating, heart disease*
BRUSH UP SUMMARIES	**DNA Methylation** **KEYWORDS:** *DNA methylation, epigenomics, bisulfite sequencing, CpG DNA, epigenetic regulation* **Confocal Microscopy** **KEYWORDS:** *confocal microscope, confocal fluorescence microscopy, materials science, imaging, microscopy*
NEWSLETTERS	**Stem Cells; Metabolomics**

October

WEBINARS	**Sequencing |** Precise Treatments through Cancer Genomics Researchers gain novel insights into cancer treatment and therapy resistance by employing next-generation sequencing techniques. This webinar will present the future of cancer precision medicine through the lens of omics data. **KEYWORDS:** *cancer genomics, precision medicine, omics, next-generation sequencing, computational biology, therapy resistance, clinical oncology*
SYMPOSIA	**Organoids |** Organoids: A Key Tool for Drug Discovery Organoids are ideal models to help researchers develop novel therapeutics for diseases, such as cancer, neurological disorders, and liver diseases. This symposium will examine how scientists employ organoids for drug discovery, drug screening, and elucidating drug resistance mechanisms. **KEYWORDS:** *drug discovery, drug screening, drug resistance, cancer, neurological disorders, kidney disease*
EBOOKS	**Gene Editing |** The Future of Precision Medicine with Gene Editing Gene editing techniques, including CRISPR, prime editing, and nucleases, allow scientists to tackle genetic diseases, cancer, and more. This ebook will explore new research involving gene editing in areas such as target discovery, disease modeling, and precision medicine. **KEYWORDS:** *precision medicine, personalized medicine, gene editing, CRISPR, prime editing, base editing, target discovery, disease modeling, TALEN, zinc finger nucleases, genetic disorders, cancer*
PODCASTS	**Infectious Disease |** Harnessing Artificial Intelligence to Fight Infectious Diseases Infectious diseases remain a huge threat to human health globally. Consequently, scientists must develop new approaches to assist with diagnosis, predict outbreaks, and develop new antimicrobial agents. This episode will discuss how researchers use artificial intelligence to advance the detection and treatment of infectious diseases. **KEYWORDS:** *infectious disease, artificial intelligence, machine learning, diagnostics, antibiotics, drug discovery*
BRUSH UP SUMMARIES	**Bacterial Growth** **KEYWORDS:** *bacteria, microbiology, antibacterial compounds, bacterial communication, bacterial evolution* **Immunoassays** **KEYWORDS:** *immunoassay, immunology, molecular biology, biochemistry, ELISA, antibodies*
NEWSLETTERS	**Multiomics; Cell therapy**

November

WEBINARS	**Mass Spectrometry |** Unraveling the Metabolome with Mass Spectrometry Researchers have associated metabolic alterations with several diseases including cancer and Alzheimer's disease. To profile the metabolome of the cells or tissue, they frequently use mass spectrometry. This webinar will examine how scientists employ mass spectrometry-based metabolomics in human health and disease research. **KEYWORDS:** *mass spectrometry, metabolomics, cancer, Alzheimer's disease, microbiome, inflammatory bowel disease*
BRUSH UP SUMMARIES	**Electron Microscopy** **KEYWORDS:** *electron microscopy, cryo-electron microscopy, scanning electron microscope, high resolution microscopy* **Molecular Diagnostics** **KEYWORDS:** *molecular diagnostics, biomarkers, genomics, proteomics, medical testing, precision medicine, infectious disease, oncology, pharmacogenomics*
NEWSLETTERS	**Sequencing; Biomarkers**

December

WEBINARS	**Organoids |** Organoids for Neurological Disease Modeling Using cerebral organoids, researchers can better understand early and late stages of disease progression and brain development. This webinar will explore how organoids and other 3D cell culture methods give scientists a new view into the brain. **KEYWORDS:** *organoids, 3D cell culture, spheroids, neurodegenerative disease, neuroscience, cerebral organoids, neurological disorders*
EBOOKS	**Infectious Disease |** Rising Stars in Infectious Disease Research As young investigators start their own laboratories, they bring new insights and innovations to their fields. This ebook will feature discussions with several researchers who are rising stars in the area of infectious disease research. **KEYWORDS***: infectious diseases, microbes, pathogens, microbiology, antibiotics, vaccines, outbreaks*
POSTERS	**Toolkit: Tumor Microenvironment |** Exploring the Inflammatory Tumor Microenvironment Description: Researchers have associated inflammation with cancer development, progression, metastasis, and drug resistance. This poster will examine the inflammatory tumor microenvironment (TME) including the cells and signaling pathways that drive inflammation. **KEYWORDS:** *tumor microenvironment, inflammation, tumor cells, immune cells, cancer-associated fibroblasts, signaling pathways, cytokines*
PODCASTS	**Human Physiology |** Omics Boldly Go to New Heights This episode will focus on research related to SOMA (Space Omics and Medical Atlas), the largest-ever collection of data for aerospace medicine and space biology. It will highlight how studying astronauts' samples during spaceflight and after their return to Earth yields insights into age-related pathologies such as dementia, cardiovascular disease, and cancer. **KEYWORDS:** *outer space, omics, aging-related disease, telomeres*
BRUSH UP SUMMARIES	**Tardigrade Research** **KEYWORDS:** *tardigrade, water bear, extremophiles, stress resilience, outer space* **Pharmacogenomics** **KEYWORDS:** *molecular diagnostics, biomarkers, genomics, medical testing, precision medicine, infectious disease, oncology, pharmacogenomics, drug development*
NEWSLETTERS	**Cell Culture; Diagnostics**

Additional Topics Available for Single Sponsorship

Webinars

TECHNIQUE TALKS

The Scientist **University (TSU) presents Technique Talks, a series of educational courses that answer the question, "How can I get this experiment to work?" The following topics are available for single sponsorship.**

- **Immunofluorescence and immunohistochemistry staining**
- **Flow cytometry**
- **PCR and qPCR tips and tricks**
- **2D cell culture**
- **3D cell culture**
- **Next-generation sequencing sample and library prep**
- **Next-generation sequencing data analysis**
- **Cell and gene therapy workflows**
- **Immunoassays**
- **Microscopy – electron, confocal, and brightfield**
- **Wastewater epidemiology**
- **Proteomics**
- **Bioprocessing**
- **CRISPR**
- **Spatial biology**
- **Metabolomics**
- **Protein expression**
- **Animal studies**
- **Mass spectrometry**
- **Lab automation**

eBooks

RISING STARS

Rising Star ebooks present interviews from up to four up-and-coming scientists, covering topics such as their latest research, their thoughts on the future of their research field, and their scientific inspirations and journeys. These ebooks can be themed to a desired scientific field or research question.

KEYWORDS: *cancer, immunology, neuroscience, drug development, cell biology, precision medicine*

AGING

Beyond Hayflick's Limit

In the hunt to live longer and healthier, researchers seek ways to translate cellular aging insights from cell culture to in vivo systems. This ebook will explore the latest translational research related to the hallmarks of aging, such as genomic instability, telomere shortening, epigenetic changes, mitochondrial dysfunction, and senescence and stem cell exhaustion.

KEYWORDS: *aging, epigenetics, mitochondrial, stem cells, senescence, genomic instability, telomeres*

SYNTHETIC BIOLOGY

Using Nature to Solve Human Problems

By engineering organisms to have new abilities, such as producing a medicine or sensing something useful in their environments, synthetic biologists redesign nature to help humans. This ebook will highlight recent synthetic biology research aimed at improving human health and tackling disease.

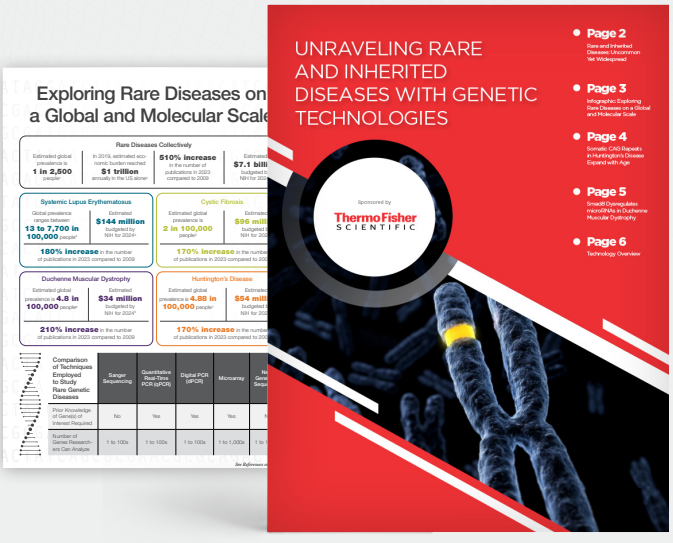
KEYWORDS: *synthetic biology, genome engineering, microorganisms, cloning, drug development*

REGENERATION

Targeting the Immune System for Hair Regeneration

Some cases of hair loss can be traced to immune system dysfunction. This ebook will highlight the latest science on immune-mediated hair loss and the molecular strategies that scientists use to trigger hair follicle stem cells and regenerate hair.

KEYWORDS: *hair growth, hair loss, hair regeneration, hair follicles, autoimmunity, autoimmune disease, immune cells, immune response, immune signals*



Posters

NEURODEGENERATIVE DISEASE RESEARCH

(can be applied to any disease research area)

Advances in Neurodegenerative Disease Research

The prevalence of patients with neurodegenerative diseases, such as Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis, is rapidly growing, which makes further research of critical importance. This poster will explore the role of microglia in the prevention and progression of these diseases, the advantages of stem cell-based therapies in their treatment, and the application of plant-derived flavonoids to treat the neuroinflammation associated with neurodegenerative diseases.

KEYWORDS: *neurodegenerative diseases, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, therapeutic development, microglia, stem cells, neuroinflammation*

ANIMAL BIOLOGY

Unraveling Life's Mysteries: Stories of Scientific Discovery from Animal Biology

From modeling cancer to obtaining insights into development, scientists glean important information about the human condition from animal research. This poster will cover different stories of scientific lessons learned from mice and beyond.

KEYWORDS: *animal models, mouse models, cancer, aging, infectious disease, development, neurological disorders, disease models*

TISSUE REGENERATION

Advances in Bone Remodeling and Regenerative Therapies

Bone remodeling is a complex process, which requires the coordinated actions of several cell types. After a fracture, the body repairs most bones back to their pre-injury state. However, some bone injuries fail to heal properly and require clinical intervention. This poster will highlight the cellular and molecular events occurring during bone regeneration, as well as recent developments in bone regenerative therapies, including stem cells and synthetic bone grafts.

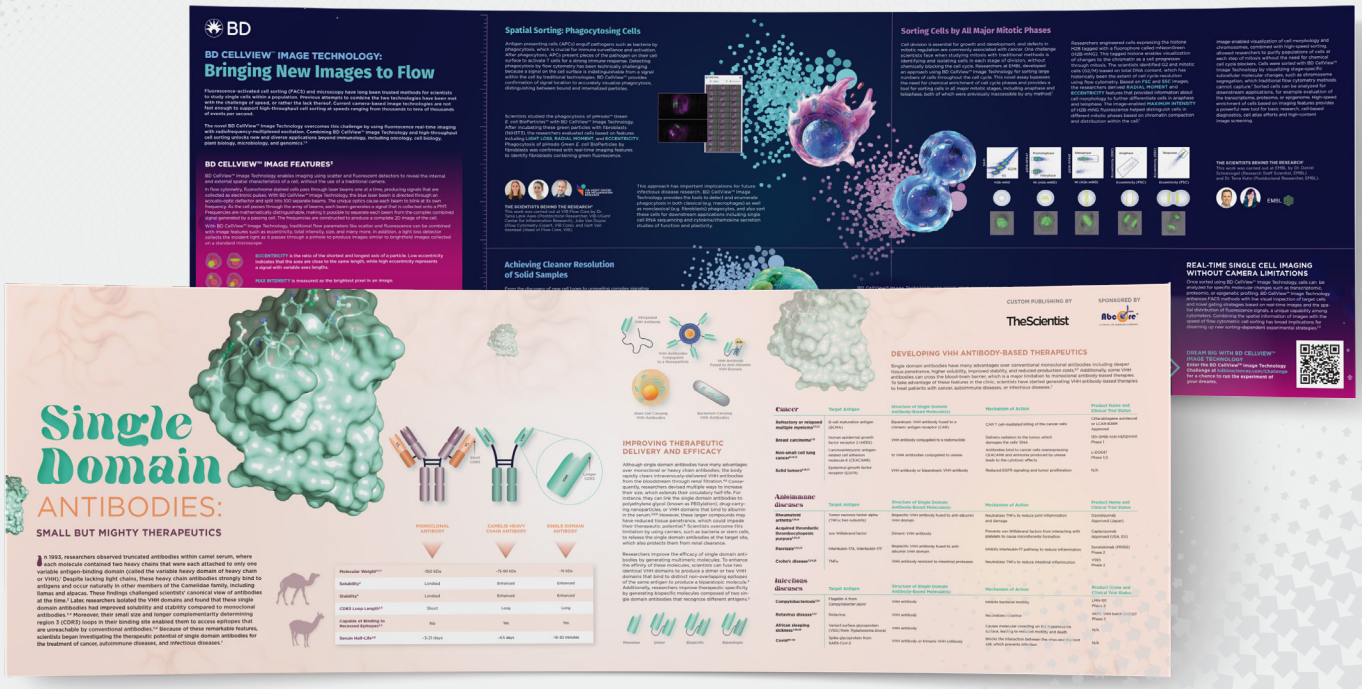
KEYWORDS: *bone regeneration, bone remodeling, stem cells, bone graft, osteoblast, osteoclast*

NEUROSCIENCE

The Trippy Neuroscience of Psychedelics

Psychedelics are increasingly being explored in the context of neuropsychiatric therapy, based on their ability to exert significant and sustained positive outcomes. This poster will explore the latest advances in understanding how psychedelics affect brain plasticity and the formation of new neurons in the context of therapeutic approaches.

KEYWORDS: *psychedelics, neuroplasticity, neurogenesis, human adult neurogenesis, neuropsychology, brain plasticity*



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