

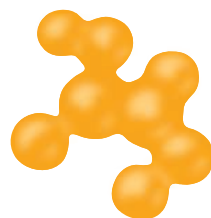
A microscopic view of several cells, likely fibroblasts, with prominent nuclei and cytoplasm, set against a warm, orange-toned background. The cells are interconnected, with one large cell in the foreground and others in the background.

Exceptional scientists wanted

Present your work to the world.

Are you a representative of the upcoming generation of thought leaders in your field? Together we look forward to your application for the new Sartorius & *Science* Prize for Regenerative Medicine & Cell Therapy.

Apply now!



The Sartorius & Science
Prize for Regenerative
Medicine & Cell Therapy

www.sartorius.com/sartorius-and-science-prize

Awarded by

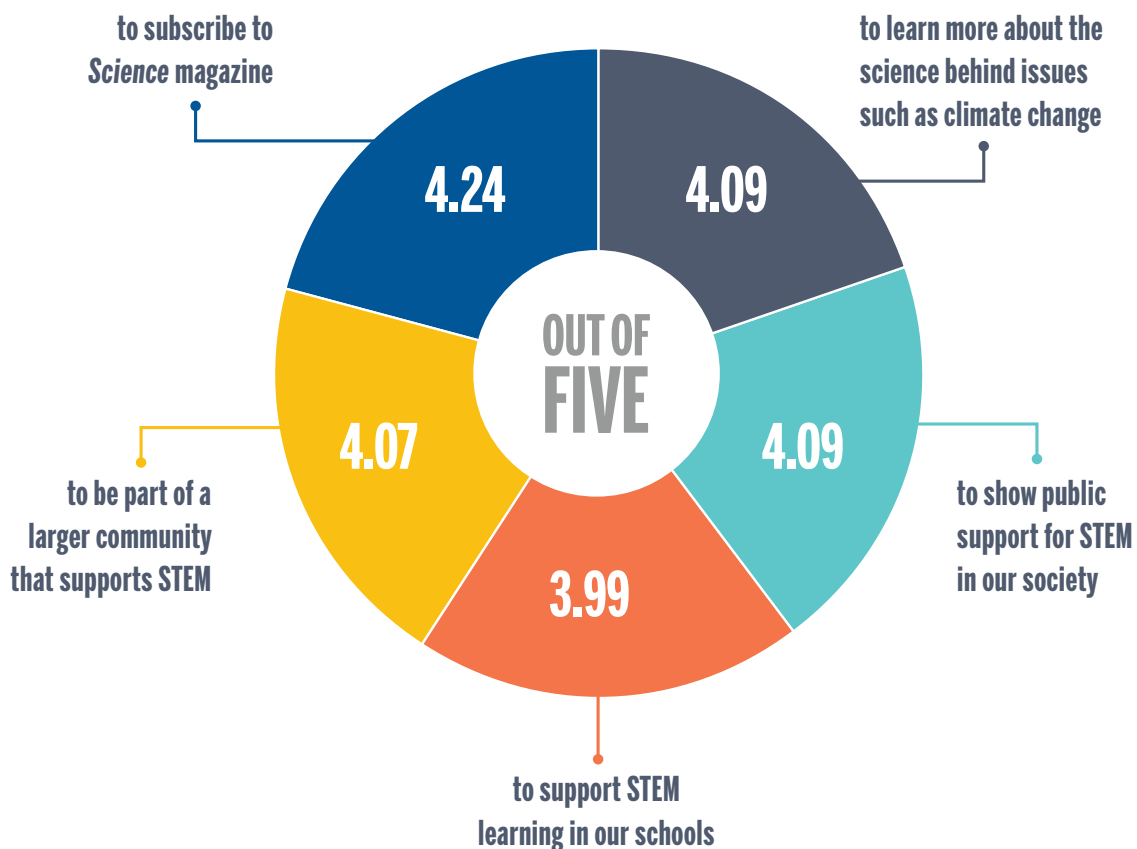


sartorius

Science

AAAS IS THE FORCE FOR SCIENCE

According to the 2018 Member Survey, you joined AAAS ...



TELL US WHAT'S IMPORTANT TO YOU!

The 2019 Member Survey is launching in the fall. Look in your inbox for a link.

Your responses help us to better serve science, scientists, and the global community.
Don't miss your chance to tell us what's most important to you!



Orbital Shakers

The Thermo Fisher Scientific Solaris 2000 and 4000 Orbital Shakers feature a unique design to support operation inside a range of laboratory equipment, including microbiological

incubators, environmental chambers, and refrigerated environments. These units are suitable for use across an extensive array of applications, including microbe and chemical handling, plant cell culture, molecular biology, and biochemistry. The Solaris Orbital Shakers also feature removable platforms and sealed internal mechanics that simplify and accelerate cleaning, minimizing the potential for cross-contamination. Furthermore, the belt is maintenance-free, and the 10-year warranty for the shaker mechanism comes with a five-year warranty on parts and a two-year warranty on labor for the customer's peace of mind. The units have been engineered to perform with a reduced noise level, in a temperature range of 5°C–40°C and humidity conditions from 20%–80% noncondensing.

Thermo Fisher Scientific

For info: 866-356-0354

www.thermofisher.com/shakers

Serum-Free Cell Culture

Containing no animal- or human-derived material, XerumFree from AMS Biotechnology is a serum replacement for all cell culture practices that is chemically defined, thereby avoiding lot-to-lot variations and eliminating the need for testing new batches of serum. Since XerumFree does not contain hormones, cytokines, or unknown serum compounds, it cannot bias your research data. Further, as XerumFree is animal-vesicle free, it is an ideal cell culture medium for exosome research. XerumFree is easy to use; simply add it to your culture medium as you would do with fetal bovine serum. Examples of cells that have successfully been cultured on XerumFree-enriched medium include liver epithelial cells, HaCaT, primary human hepatocytes, hybridoma, VERO, HEK293, CHO, HepG2, HeLa, and human keratinocytes.

AMS Biotechnology

For info: 617-945-5033

www.amsbio.com/xerumfree-defined-cell-culture.aspx

Automated Mass Cell Culture Equipment for iPS Cells

The automated mass cell culture equipment from Hitachi is able to commercially manufacture induced pluripotent stem cells (iPS cells) for regenerative medicine. It has the necessary functions to comply with the Japanese GCTP (good gene, cellular, and tissue-based products manufacturing practice) standards. Adopting a closed-system flow channel for connection with the culture vessels and the medium bottles, the equipment is capable of cell seeding, culturing, and monitoring in sterile environments and offers a stable supply of high-quality cells.

Hitachi

For info: 800-448-2244

www.hitachi.com

Photobioreactor

The Algem HT24 is a compact, computer-controlled photobioreactor for microalgae research. It comprises 24 separate reactors—each independently controlled and monitored—enabling the highest throughput of strain, culture media, and growth condition variance commercially available. Precisely calibrated, white LEDs provide maximum flexibility with light intensity and diurnal light cycle (light/dark periods) control, while the fully enclosed design eliminates contamination from unwanted light (optional red LEDs available), raising the standards of your algae cultivation and improving your data accuracy and reproducibility. The Algem HT24 also features the company's own custom-designed Algenious user interface, which displays the acquisition of all major parameters simultaneously in real time.

Algeniuty

For info: +44-(0)-1234-765773

www.algeniuty.com

Scratch Assay Starter Kit

BioTek Instruments offer the Scratch Assay Starter Kit for use with their Lionheart Automated Live Cell Imagers and Cytation Cell Imaging Multi-Mode Readers. The Scratch Assay Starter Kit includes the AutoScratch Wound Making Tool, Scratch App software, sample packages of 24- and 96-well microplates, and cleaning reagents. AutoScratch automatically creates repeatable scratches of equivalent size and area in confluent cell monolayers to increase consistency and facilitate normalization across subsequent assays. Interchangeable manifolds facilitate processing in 24- and 96-well microplates, and AutoScratch easily fits into laminar flow hoods. The USB-supplied Scratch Assay App software includes predefined protocols to automatically calculate key wound-healing assay statistics, such as wound width, percent confluence, and maximum healing rate. The supplied 24- and 96-well microplate sample packs and cleaning reagents enable hands-free workflow convenience while ensuring optimal scratch assay performance and analysis.

BioTek Instruments

For info: 888-451-5171

www.biotek.com

Next-Generation Cancer Models

To address the need for advanced, precise models for cancer research, ATCC has collaborated with the Human Cancer Models Initiative (HCMI) to become the sole global distributor of next-generation models representing common as well as rare and understudied examples of cancer from numerous tissues. Included in these offerings are organoids; these 3D culture models may contain multiple differentiated cell types, exhibit cellular polarization, and often possess a central lumen and other in vivo-like architectural features. All HCMI models are human patient-derived with diverse genetic backgrounds, making them better able to recapitulate the complexity of human tumors in comparison to existing cell lines. Further, to enhance their clinical relevance, HCMI models have also been annotated with clinical and genomic data.

American Type Culture Collection (ATCC)

For info: 866-614-0042

www.atcc.org/hcml

Electronically submit your new product description or product literature information! Go to www.sciencemag.org/about/new-products-section for more information.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and governmental organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier.

ScienceAdvances



OPEN ACCESS, DIGITAL, AND FREE TO ALL READERS

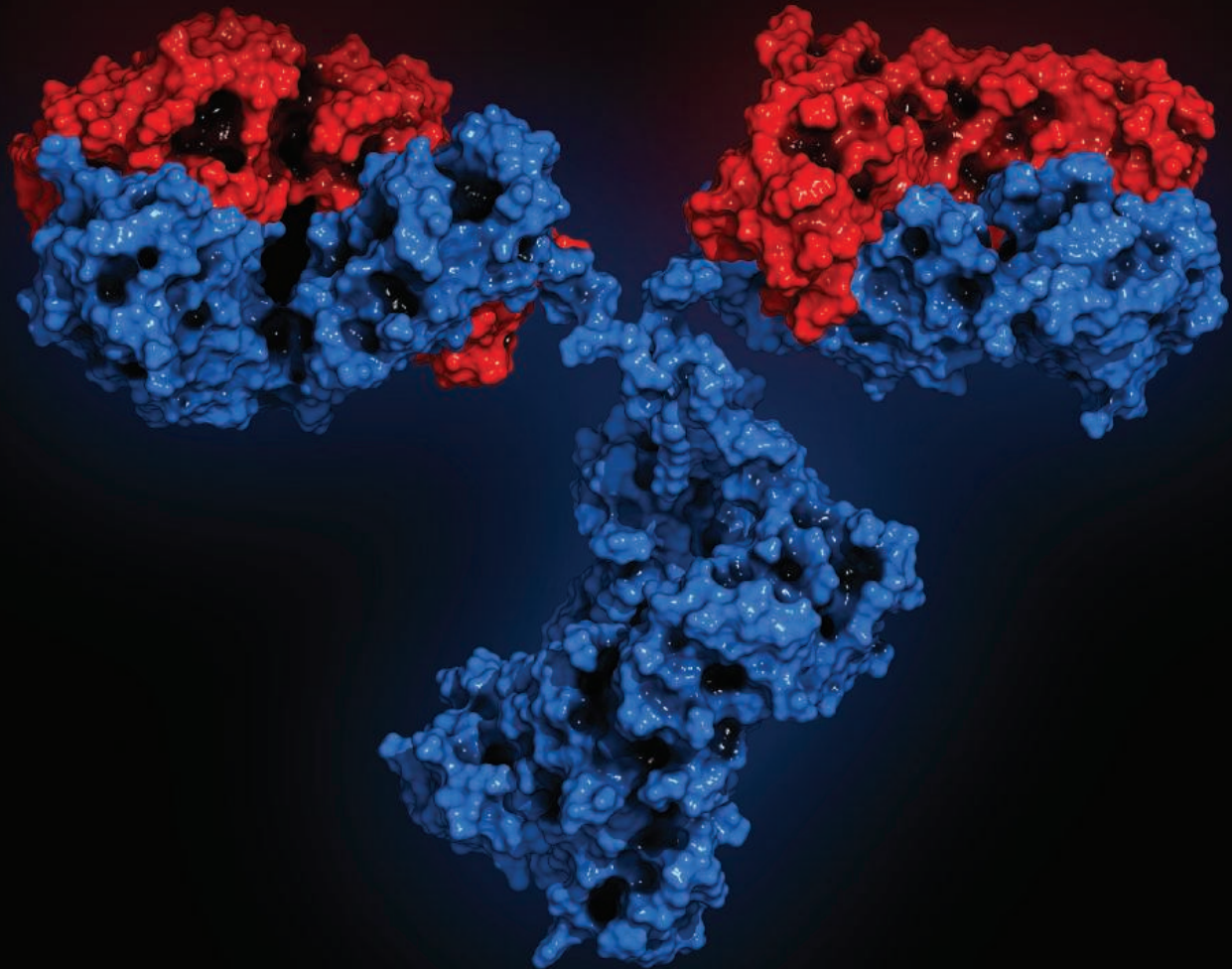


Pushing the Boundaries of Knowledge

As AAAS's first multidisciplinary, open access journal, *Science Advances* publishes research that reflects the selectivity of high impact, innovative research you expect from the *Science* family of journals, published in an open access format to serve a vast and growing global audience. Check out the latest findings or learn how to submit your research: ScienceAdvances.org

Antibodies Recognize Antigens...

How will you get **recognized** for your immunology research?



Science Immunology publishes original, peer-reviewed, science-based research articles that report critical advances in all areas of immunological research, including important new tools and techniques.

Submit your research today. Learn more at: [ScienceImmunology.org](https://www.sciencemmunology.org)

Science
Immunology

