

# The Future of Open Science

\$1.24M  
offering size

INVEST

WWW.SCIENCECAST.ORG

ScienceCast, Inc.

Common Equity Shares, Reg CF

Join the Movement. Acquire a Stake in ScienceCast.

\$300  
Minimum Investment Amount

\$1.24M  
Maximum Offering Size

OFFER DETAILS

TEAM

IMPACT STATEMENT

DOCUMENTS

Q & A

UPDATE: The first \$45,000 of committed investments offered at the discounted price of \$0.50 per share have been sold out.

For the first \$45,000 of committed investments, shares will be sold at a discounted price of \$0.50 per share. All remaining shares will be sold at \$0.75 per share.

Minimum Investment Amount: \$300


Maximum Offering Size (Maximum amount of securities that will be sold in this offering): \$1,234,999.50

Minimum Offering Size (If this minimum threshold amount of securities is not sold in this offering, the offering will be canceled and all investments will be returned): \$30,000


ScienceCast - CF

Watch later


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## ScienceCast



### The Future Of Open Science

Watch on 

## ScienceCast

### Join the Future of Open Science!

At ScienceCast, in partnership with arXiv, bioRxiv & medRxiv and McKinsey Digital Innovation Team, we are building the foundation of the Open Science Infrastructure. We provide a hub for scientists to conduct and publish their work freely, retaining their copyright, and to utilize 21st-century software tools for their research. Our platform connects scientists and the public, making complex ideas more accessible. From AI-generated video pitches to LLM-enriched knowledge graphs, ScienceCast equips all stakeholders with innovative tools to navigate the information age.

ScienceCast bridges Researchers and the Public with State-of-the-Art Digital Tools

Provides Free, Open-Access Publishing with Full Copyright Control for Scientists

Transforms Complex Research into Accessible Knowledge for Everyone



Breaks Down Barriers in Scientific Communication for More Accessible Entry into the Scientific Profession

Pioneers a Continuous, Fair, and Open Peer Review to Replace the Current Biased and Siloed System

medRxiv

arXiv

bioRxiv

Deeply integrated into open repositories



ScienceCast

is a smart hybrid of

LinkedIn

for Scientists

YouTube

for Scientists

Twitter

for Scientists

GitHub

for Scientists

## Leading The Open-Science Revolution

Just like most of today's software runs on open-source code, most future research will derive from open-science data. ScienceCast, integrated with open-access publishing leaders like arXiv, will offer scientist-tailored tools akin to GitHub, LinkedIn, Twitter, and YouTube. This integration is set to become an integral part of the emerging open-science infrastructure.

The ongoing open-science revolution is poised to fundamentally change and modernize the antiquated for-profit science publishing model. This current system, built on tolls, restricts access to research data, stifles collaboration, and creates multiple pain points for all stakeholders.

The academic publishing market is significant. But the system is broken.

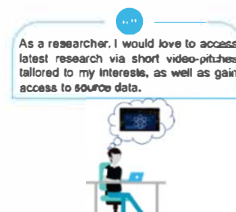
### 1. Publishing

The current publishing system is the same as in the 1900s. The money streams in the peer-review system are **one-directional**.



### 2. Research

Exponential growth of research data yields information overload (e.g., it would take 150 years to read all papers on COVID).



### 3. Community

The existing platforms do not allow for high-quality **real-time** community interaction and **dynamic peer review**.



## ScienceCast: Addressing Critical Challenges in Science Publishing & Research

### Pain Point

### ScienceCast Solution

High specialization & complexity of scientific papers

AI- and author-generated elevator pitches of articles with tunable level of expertise

Overflow of scientific data

Smart recommendation engine of papers through audio-summaries



Siloed scientific communities

LLM-enriched interactive knowledge graphs (ontologies) of connected research articles

Conservative job market for academic & high-end R&D industry jobs

Video-enhanced job board for research showcases

Accessibility barriers for people with disabilities

AI-generated audio/video presentations & a talk-to-paper feature

Difficulty with presenting research results

AI-powered presentation builder with an LLM tool to prepare & iterate talks

Broken peer review system

Unbiased AI-powered matching of papers & referees within an open peer-review system linked to arXiv

## ScienceCast, in tandem with arXivs, forms the digital open-science ecosystem



### 1. Publishing

Publish papers through AI-generated audio & video pitches  
Shape a fundamentally new peer-review process

### 2. Research

Smart personalized news feed to conduct research  
Talk to papers through a field-specific chat bot  
Generate research presentations on the fly using AI tools

### 3. Community

Interact with the authors directly  
Access, analyze and annotate source data  
Communicate with collaborators all over the world

## Why now?

### THE WHITE HOUSE



AUGUST 25, 2022

OSTP Issues Guidance to Make  
Federally Funded Research Freely  
Available Without Delay



Federal agencies are celebrating 2023 as a Year of Open Science, a multi-agency initiative across the federal government to spark change and inspire open science engagement through events and activities that will advance adoption of open, equitable, and secure science.



Our AI-enhanced web tools help scientists to publish, summarize and promote their work via click of a button!

### Make your research more accessible

from AI-generated audio briefs to direct discussions with peers — elevate your paper's reach and resonance.

Enter link to your paper, for example: <https://arxiv.org/abs/2301.04657>

Generate AI-Powered SciCast

or

Upload & Personalize Your Pitch

Authors, readers, and reviewers are able to employ our tools to publish and review text, audio, and video summaries explaining research. Moreover, these summaries can be customized on the fly to the expertise of the user.





The process is simple: authors link their preprints, and ScienceCast generates text and audio summary based on the full paper using AI tools and links these summaries back to arXiv.



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### Recommended SciCasts

- [Eugenio Mancera](#)
2 views
- [Genetic modification of \*Candida maltosa\*, a nonpathogenic CTG species, reveals EFG1 function](#)
- [Felix Merklinger](#)
1 view
- [Genome-wide SNP data reveal recent population structure of \*Huadobria frutescens\* \(Liliaceae\), a helio-endemic lineage from the Atacama Desert](#)
- [Librarian](#)
0 views
- [Age Estimation Based on Graph Convolutional Networks and Multi-head Attention Mechanisms](#)

### scSniper: Single-cell Deep Neural Network-based Identification of Prominent Biomarkers

Librarian • Bioinformatics • November 23, 2023 4:51pm

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scSniper: Single-cell Deep Neural Network-based Identification of Prominent Biomarkers

[Pingping Li](#), [Taohe Chen](#), [Jun Ding](#)  
[doi:https://doi.org/10.1101/2023.11.22.562389](#)

This article is a preprint and has not been certified by peer review [full-text does not apply]

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[Full Text](#)
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[Abstract](#)

Biomarker discovery is a critical step in understanding the underlying mechanisms of diseases and improving diagnostic accuracy. However, current computational methods often have limitations, such as a reliance on prior knowledge, susceptibility to overfitting, and the use of conventional statistical tests for feature selection. To address these issues, we introduce scSniper, a novel approach that employs a deep neural network framework to identify single-cell multi-omic biomarkers. A standard feature selection method is the random forest, which is a machine learning model. However, scSniper is the random forest-based, enhancing significant features and identifying data types. Moreover, scSniper will be able to identify significant features based on a deep neural network for feature selection and uncover critical genes regulatory network without requiring prior knowledge. Comprehensive evaluation on real-world datasets, including CIBER-seq, CITE-seq, and LUX-seq, demonstrates scSniper's superior ability to identify single-cell biomarkers consistently outperforming traditional methods like t-SNE, WGCNA, and MCODE. The scSniper tool and related experimental results are publicly available at [https://github.com/pingpingli/scSniper](#).

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### Automated Services

A variety of services have been developed to assist in the analysis of genomic data. This summary and analysis tool will help you understand the data and the results of the analysis. You can find the full text of the paper and the results of the analysis in the summary.

### All-generated summary from ScienceCast

(Initial level)  
 General

Identified have developed a groundbreaking tool called scSniper that can identify a marker a specific cell type in a single-cell RNA-seq dataset. This tool is a deep neural network framework. scSniper integrates other techniques of accurately predicting disease outcomes and uncovering gene regulatory networks. Biomarkers such as BAPCH and TM310 have been found to be significantly associated with lung cancer. This novel approach outperforms traditional methods and is available as a web tool. It demonstrates superior performance in pathway enrichment and logistic regression models for lung cancer biomarkers. For more information, visit [https://github.com/pingpingli/scSniper](#).

Explore full text on ScienceCast



Users can talk with papers using smart specialized chat bots as if they are having a conversation with the authors of the paper.



## Market Analysis

### Total accessible market for University subscriptions (US & EU only)

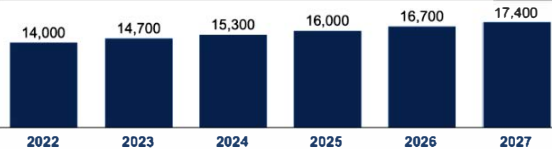
DATA BASED ON MCKINSEY & COMPANY RESEARCH

Development over the next 5 years, USD mn

#### Conservative scenario



#### Optimistic scenario



1. A 528 annual subscription model is assumed.

2. Includes 248 research universities in the US and 2,320 in the EU. Further potential can be unlocked by addressing universities in other regions (e.g., Asia).

#### Bottom-up approach

The total addressable market can be sized by considering:

Number of research universities

Average price<sup>1</sup> per university paid to publishers

#### Assumptions

Total number of universities: 2,578<sup>2</sup>

Average price per university paid to publishing houses in 2022 range from:

- Conservative: USD 3.3 mn
- Optimistic: USD 4.4 mn

An average price growth of 4.4% YoY is assumed





**Beyond the niche of university libraries,  
ScienceCast taps into a multitude of substantial markets.**



We conservatively estimate the total addressable market in the range of **\$US 50 billion annually**. Digitization is growing this market.



## Multichannel Business Model

	Target	How?	When?
	B2B	Enterprise subscriptions to selected publishers, open-science repositories, Universities, etc.	now
	Consulting services	Providing consulting in deep technology fields from quantum technology to biomedical research, leveraging the expertise of both bounders & users.	now
	Government agencies	Contracts & grants for with federal agencies for providing tools to facilitate compliance with the White House open-science order.	~6 months
	B2C	"Freemium" model (like LinkedIn). Core functionalities will remain free & open-access, but ScienceCast will charge for premium features.	~12 months

## The bottom-up business case estimates revenues of USD ~70–230mn by 2028

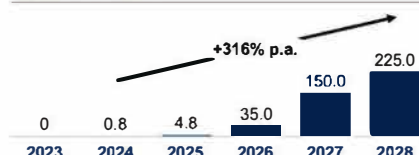
DATA BASED ON MCKINSEY & COMPANY RESEARCH

### B2B Revenues for ScienceCast, USD mn

#### Conservative scenario



#### Optimistic scenario



### Assumptions

#### Number of B2B customers

	2024	2025	2026	2027	2028
Conservative	30	70	200	400	800
Optimistic	50	120	500	1,000	1,500

#### Price of ScienceCast, USD

	2024	2025	2026	2027	2028
Conservative	10k	30k	50k	90k	90k
Optimistic	20k	40k	70k	150k	150k

## Reasons to Invest in ScienceCast

Your backing of ScienceCast is more than just a personal investment; it is an investment in pursuing a future where science is more connected, accessible, and vibrant for everyone. Your support of ScienceCast will help with:

**Enhancing Open Access to Scientific Knowledge:** Your contribution to ScienceCast champions the critical movement towards open access in scientific research, facilitating the free flow of information.

**Democratizing Science Communication:** Your investment will help us make complex scientific concepts accessible and engaging, bridging the gap between intricate research and public comprehension.

**Tackling Information Overload in Research:** With your support, ScienceCast will develop AI-driven tools to efficiently manage the increasing volume of scientific data and publications.



volume of scientific data, potentially uncovering hidden discoveries of profound global impact.

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**Catalyzing Global and Interdisciplinary Collaboration:** Your support will aid in creating an open-science infrastructure that will break down geographical barriers and foster interdisciplinary connections, enriching the research process.

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**Advancing Digital Innovation in Research:** Your contribution will facilitate the integration of cutting-edge digital tools like AI and ontological knowledge networks, ensuring that research happens at the forefront of technological capabilities.

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**Championing Inclusivity in Science:** By supporting ScienceCast, you are ensuring that science remains open and accessible to everyone, including those with disabilities, embodying the true spirit of inclusive science.

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**Igniting a Passion for Science & Learning:** Investing in ScienceCast means supporting an ecosystem that not only educates but also ignites a lifelong love for science & discovery among people of all ages.

## Our Collaborations



## Growth Plan

In the next phase of our project, we will strategically allocate investor funds to enhance our technological suite, developing advanced tools integral to our platform's growth and user engagement. Simultaneously, we are prioritizing the expansion of our partnership network, specifically targeting entities serving the open science movement, including prominent educational institutions.

## Key Advisors





Dr. Brian Greene

Dr. Brian Greene is a Key Advisor and a Member of our Board of Advisors. In addition to being Director of Columbia University's Center for Theoretical Physics, Dr. Brian Greene is the co-founder of the World Science Festival and the author of a new book, "Until the End of Time," which is about mind, matter and the human search for meaning in an evolving universe. The mission of the World Science Festival is to bring live and digital science programming to broad public audiences.



Arsalan Farooq

Mr. Arsalan Farooq, a Key Advisor and Member of our Board of Advisors, is now a Product Leader at Google Cloud, and boasts extensive experience across various tech domains, including cloud services, big data, IoT, and more, underlining his journey as a tech executive and former CEO of Netifi. He contributes his expertise as a mentor at Alchemist Accelerator, significantly impacting areas like digital transformation, DevOps, and open-source models.



Dr. Richard Sever

Dr. Richard Sever, with notable academic credentials from Oxford and Cambridge, is a Key Advisor and a Member of our Board of Advisors. Dr. Sever co-founded the influential preprint servers bioRxiv and medRxiv and holds a key role at Cold Spring Harbor Laboratory Press. He initiated the specialized journal Cold Spring Harbor Molecular Case Studies and has served as an editor for several prominent scientific publications.

## Team Members



Andrew Jiranek

Mr. Jiranek, co-founder and CEO of ScienceCast, leverages his more than 35 years experience as a corporate attorney and business executive who has guided start-ups offering innovative technology through the legal and financial issues associated with their early stage scaling of operations. Holding a J.D. from William & Mary and an A.B. in Economics from Princeton University, he specializes in various fields, including business development, protecting IP, acquiring talent and strategic thinking.



Dr. Victor Galitski

Dr. Victor Galitski, our President and Chief Science Officer, holds two PhDs in applied mathematics and quantum physics. He currently serves as the Chesapeake Chair Professor of Theoretical Physics at the Joint Quantum Institute, University of Maryland. A prolific author with over 200 publications and an editor of a prominent physics journal, he has extensive familiarity with all aspects of academic publishing.



Dr. Prineha Narang

Professor Prineha Narang, an Executive Vice President, is renowned for her contributions in theoretical and computational science, having transitioned from Harvard University to lead a research group at UCLA, receiving multiple esteemed awards like the Maria Goeppert Mayer Award and the Moore Inventor Fellowship. She also founded Aliro, focusing on quantum networks, and serves as a U.S. Science Envoy for the State Department.



Dr. Steinn Sigurðsson

Dr. Steinn Sigurðsson, the Chairman of our Board of Directors, is also an esteemed Professor of Astronomy at Penn State University and Scientific Director at arXiv. Dr. Sigurðsson has significantly influenced the STEM field and has authored over 100 notable publications and is the Scientific Director of innovative projects like arXiv Labs, a leader of the Open Science Movement. Dr. Sigurðsson's acclaimed research is supported by organizations such as NASA and NSF. Dr. Sigurðsson has an active role externally with the Aspen Center for Physics, particularly in private fundraising efforts.





Dr. Charles W. Clark

Dr. Charles W. Clark, an Executive Vice President, has had a distinguished 30-year career with NIST and the Office of Naval Research, receiving numerous awards, including the U.S. Department of Commerce Gold Medal and the Distinguished Presidential Rank Award. He is an expert in advanced fields such as quantum computing and artificial intelligence, influencing significant technological and governmental policies.



Moshe Levy

Moshe Levy is our Chief Technology Manager. As such, he is responsible for our software development and for managing our software engineers in their development projects. He reports to our President and Chief Science Officer. Mr. Levy received a Bachelor of Science with a major in Physics and a Minor in Mathematics in 2021, from Rutgers University, and a Master of Science in Physics in 2023 from Hebrew University in Israel. During his studies, and afterwards, Mr. Levy has developed AI/ML software models for use in science and research applications as an independent contractor. Mr. Levy is currently working for us as an independent contractor, while also working as a programmer for select software companies. With increased funding, Mr. Levy plans to join our company as a full time employee.



Vacheh Joakim

Vacheh Joakim, our Executive Vice President of Sales & Marketing, joined us in July 2022 and is based in Los Angeles. With 18+ years in SEO and web marketing, including roles as Director of Operations at Submit Express, Inc., he has extensive experience in digital marketing, web development technologies, and SEO. He founded Evolutionary Business Arts in 2009 and has a strong background in leading successful SEO campaigns.

## ScienceCast Impact Statement

ScienceCast is committed to the open science movement and intends to contribute 5% of its profits to non-profit organizations with shared values. ScienceCast is eligible to raise investment funds on The Impact Crowd by satisfying predetermined Impact Criteria defined by The Impact Crowd, including the pursuit of social impact in the following categories:

1. Educational improvements
2. Intention to donate a percentage of profit to non-profit organizations that support the open-science ecosystem

To read our full Impact Statement, please click the Impact Statement tab.

## Risks of Investing

### Required Statement:

A crowdfunding investment involves risk. You should not invest any funds in this offering unless you can afford to lose your entire investment.

In making an investment decision, investors must rely on their own examination of the issuer and the terms of the offering, including the merits and risks involved. These securities have not been recommended or approved by any federal or state securities commission or regulatory authority. Furthermore, these authorities have not passed upon the accuracy or adequacy of this document.

The U.S. Securities and Exchange Commission does not pass upon the merits of any securities offered or the terms of the offering, nor does it pass upon the accuracy or completeness of any offering document or literature.

These securities are offered under an exemption from registration; however, the U.S. Securities and Exchange Commission has not made an independent determination that these securities are exempt from registration.

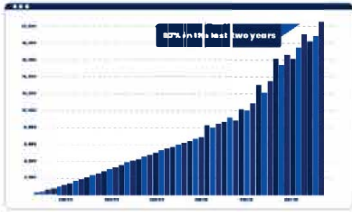

### Additional statement:

There are many risks to consider when making this investment. Please see EXHIBIT B in the Documents tab for a more expansive list of potential risks associated with an investment in the Company.






## ScienceCast.org Video Script

No.	Voiceover	Visuals




#1	Did you know that 90% of the world's data was created in the last two years?	
#2	This could mean research on curing cancer or better energy solutions may have already been invented, but it's lagging behind a broken peer review system or buried under an avalanche of low-quality data.	




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#3	With this avalanche of information, how do you know what to trust?	
#4	Introducing ScienceCast, a platform that connects quality data with a newer, better model of peer reviewing.	  
	In close partnership with leading open repositories like arXiv, ScienceCast	



	extracts the pearls from this sea of data	
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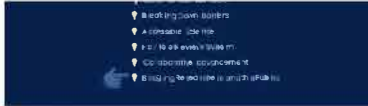
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#5	and presents it at adjustable levels of expertise.	
#6	Authors can easily disseminate their research	

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#7	while maintaining their copyright and keeping ownership of all their data, ushering an outdated publication industry into the 21st century.	
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#8	Invest in the future of open science and become a stakeholder in ScienceCast today.	