

Pharmaceutical Case Study

# How Scite Automated Research Monitoring For A Leading Pharmaceutical Company





# The Problem

A leading pharmaceutical company was looking for a solution that would help them stay up to date on how research they published was cited by other scientific publications. This was crucial for a number of reasons, in part because subsequent literature might highlight flaws in their findings or fill in gaps in their knowledge that accelerate or otherwise inform their internal research and development.

They wanted to make sure that the new tool was reliable, easy-to-use, accurate, and comprehensive in its coverage of scientific citations. With that in mind, they found Scite to be the best solution to elevate their operations and give them a competitive edge.

Prior to Scite, the company relied on manual processes built around tools such as PubMed, Google Scholar, and other web resources. A significant amount of time was spent manually finding, reading, and cataloging references made to their publications. More importantly, staying up to date as new citations happened became difficult due to how cumbersome this existing process was.

Today, they are able to see how papers they publish are cited by others in a matter of minutes. By simply viewing scite reports for their publications, they can immediately see which publications cite them and the relevant in-text context from the citing papers at a mere glance. More importantly, new citations made to their publications are delivered straight to their inbox as they are indexed, allowing them to stay on top of the ongoing scientific conversation and maintain a competitive advantage in their research and development process.

# How Scite Helped

The pharmaceutical company's research team discovered that Scite offered exactly what they needed to transform their citation tracking process.

## Automated Citation Analysis

Scite leverages Smart Citations technology to automatically extract and classify how scientific papers reference each other. When one publication cites another, Scite captures the actual text surrounding that citation and determines whether it's supporting, contrasting, or simply mentioning the cited work's findings.

## Eliminated Manual Research

Rather than spending hours manually searching through databases and reading papers to understand how their research was being cited, the team could now access this information instantly and comprehensively.

## Comprehensive Citation Database

What made Scite particularly valuable for the pharmaceutical company was its comprehensive database. Through partnerships with major publishers and access to Open Access articles, Scite maintains the world's largest collection of citation statements, giving the company confidence they weren't missing important references to their work.





# The Solution In Action: Reports

The company began using [Scite's report feature](#) to monitor individual publications from their research portfolio. Each Scite report provides a complete view of how a specific paper has been cited by the broader scientific community.

For example, if the team wanted to understand the impact of recent research on NSI-189 (an experimental antidepressant), they could instantly see that the publication had been cited by 16 other studies through 13 distinct citation statements.

J Cell Physiol volume 232, issue 10, P2731-2740 2017 DOI: 10.1002/jcp.25847 [View full text](#) | [Set alert](#) | [Share](#) [Twitter](#) [Facebook](#) [LinkedIn](#)

## NSI-189, a small molecule with neurogenic properties, exerts behavioral, and neurostructural benefits in stroke rats

Naoki Tajiri<sup>1</sup>, David M. Quach, Yuji Kaneko<sup>3</sup>, Stephanie C Wu, David Lee, Tina Lam, Ken L. Hayama, Thomas G. Hazel, Karl Johe, Michael C. Wu, Cesar V. Borlongan<sup>11</sup>

**Abstract:** Enhancing neurogenesis may be a powerful stroke therapy. Here, we tested in a rat model of ischemic stroke the beneficial effects of NSI-189, an orally active, new molecular entity (mol. wt. 366) with enhanced neurogenic activity, and indicated as an anti-depressant drug in a clinical trial (Fava et al., 2015, Molecular Psychiatry, DOI: 10.1038/mp.2015.178) and being tested in a Phase 2 efficacy trial (ClinicalTrials.gov, 2016, ClinicalTrials.gov Identifier: NCT02695472) for treatment of major depression. Oral...

expand abstract ▼

Search citation statements

Cited by 16 publications

(13 citation statements)

References 46 publications

(79 reference statements)

Metadata from the [Scite report](#) showing information about the paper and how many times it was cited by others.

More importantly, they could read the exact context of how other researchers discussed this work without having to track down and read each citing paper individually.

Search citation statements

Context, author(s), title e...

Order By: Relevance ▼

Publications ⓘ

☒ With Citation Statements

8

☒ Without Citation Statements

8

Citation Types ⓘ

☒ Supporting

☒ Mentioning

☒ Contrasting

3

10

0

Year Published

Year	Publications
2017	1
2018	11
2019	9
2020	1
2021	0

Cited by 16 publications

(13 citation statements)

References 46 publications

(79 reference statements)

supporting

Confidence: 92%

[flag classification](#)

Our finding that NSI-189 enhanced neurite outgrowth in adult sensory neuron cultures extends the known cellular actions of this molecule to promoting regenerative growth of PNS axons. Stimulation of neurite growth is consistent with a prior report that NSI-189 increased hippocampal MAP2 expression (16), as MAP2 stabilizes microtubules and assists neurite elongation. Moreover, enhanced neurite extension by adult sensory diabetic neuron cultures was accompanied by stimulation of mitochondrial maximal respiratory capacity.

Section: Discussion

supporting

Confidence: 91%

[flag classification](#)

This is consistent with reports that long-term potentiation is impaired in diabetic rodents and that NSI-189 enhances long-term potentiation in mouse hippocampal slice preparations (18). Bioactivity of NSI-189 requires protein synthesis (18), and it increases expression of the neurotrophic factor BDNF by hippocampal cells in culture (16). Interestingly, BDNF is reduced in the hippocampus of db/db mice.

Section: Discussion

See 3 more Smart Citations

Amelioration of Both Central and Peripheral Neuropathy in Mouse Models of Type 1 and Type 2 Diabetes by the Neurogenic Molecule NSI-189 Jolival, Marquez, Quach, et al. 2019 [Diabetes](#) Self Cite

1

0

0

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[View scite report](#)

[View full text](#)

mentioning

Confidence: 99%

[flag classification](#)

Following a similar administration protocol, oral dosing of NSI-189 increased hippocampal cell proliferation and volume after a 28-day regimen in unirradiated control mice (see Supplementary Information). Recently published work in a preclinical stroke model using rats has shown that NSI-189 treatment can enhance cell proliferation in the peri-infarct cortex and increased hippocampal MAP2 immunoreactivity (23). To determine whether similar effects would operate in a radiation model, animals were subjected to a BrdU paradigm designed to label newly born cells one month before the onset of cognitive testing.

Section: Results

Remediation of Radiation-Induced Cognitive Dysfunction through Oral Administration of the Neuroprotective Compound NSI-189 Allen, Acharya, Lu, et al. 2018 [Radiation Research](#)

11

1

9

0

Grouped Smart Citations from the report page showing the title of the citing publications as well as the extracted textual contexts, allowing you to see how they referenced the paper of interest.

The report interface groups citations in a way that makes patterns immediately visible. Teams can quickly identify whether subsequent research is building upon current findings, challenging existing conclusions, or referencing specific methodology. This level of insight, which previously required days of manual research, is now available in minutes.

The company found this particularly valuable for understanding the scientific conversation around their drug development programs and identifying potential collaboration opportunities or areas where their research might need follow-up studies.

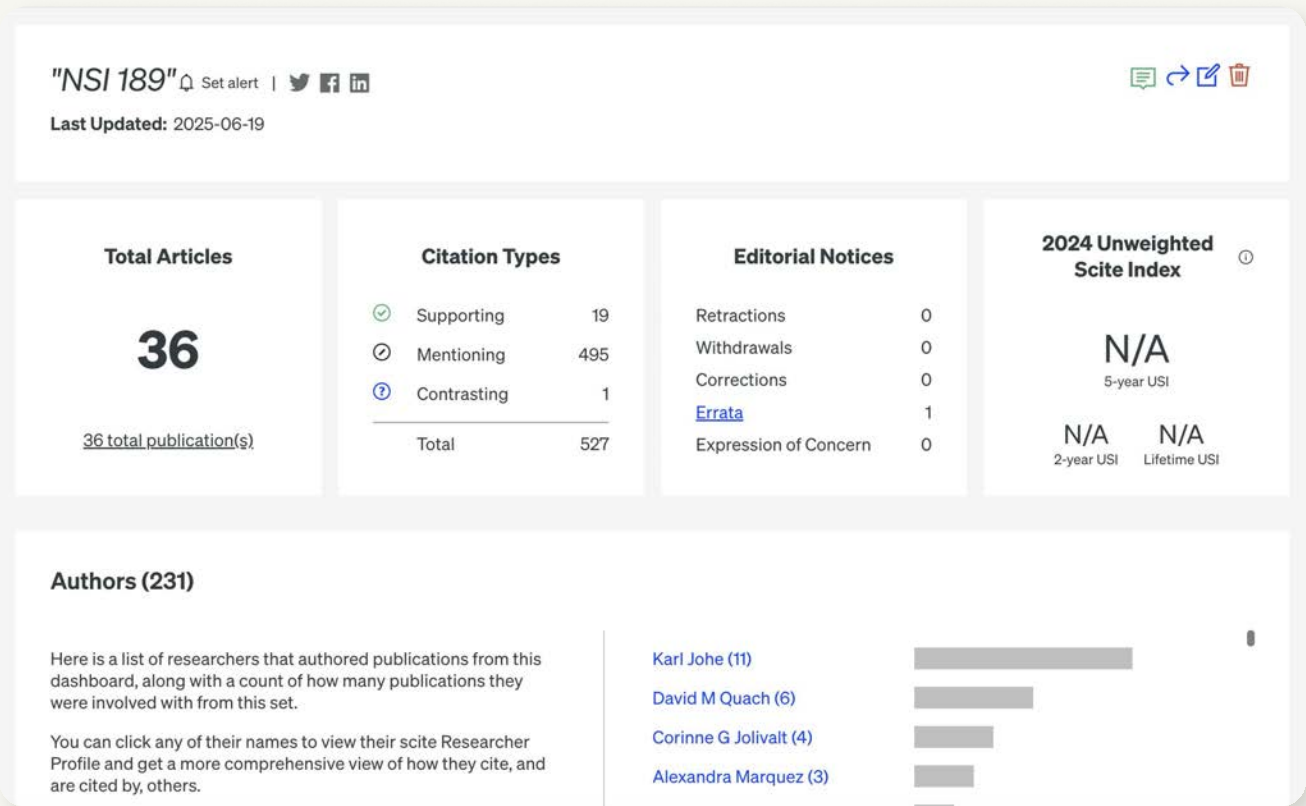


# Scaling Up With Custom Dashboards

While individual reports were helpful, the company also needed a way to monitor their entire research output collectively. This led them to **create custom dashboards** that aggregated citation data across multiple publications from their organization.

The dashboard functionality allowed them to upload a comprehensive list of their published research and view citation patterns across their entire portfolio at once. This bird's-eye view revealed which areas of their research were generating the most scientific interest and whether their findings were generally being supported or challenged by subsequent studies.

Plus, their teams are able to see trends over time – for instance, noticing when a particular research area is gaining momentum in the broader scientific community or when questions were being raised about certain methodologies. This strategic overview helps inform ongoing research priorities and resource allocation decisions.



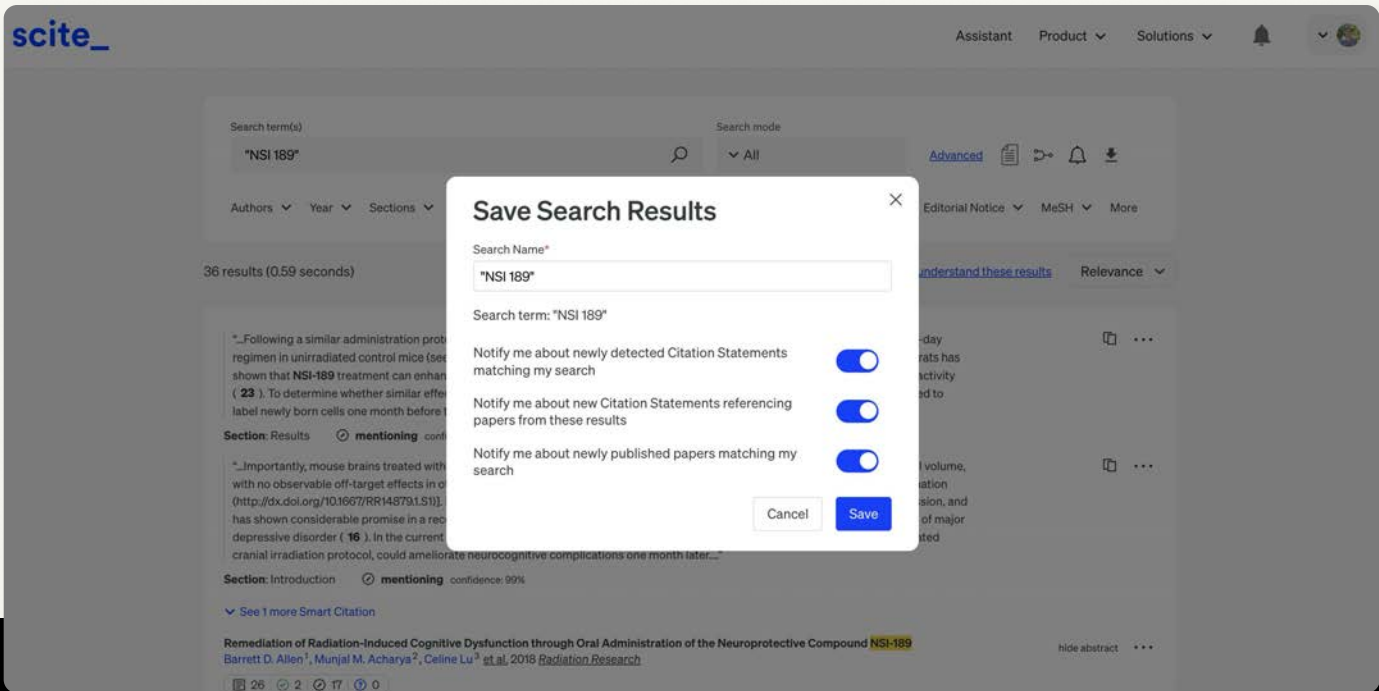
These dashboards can be created in multiple ways – automatically from search results, manually from a list of publication identifiers, or by syncing with their research management tool. This flexibility means they can quickly organize their publications however makes most sense for their internal reporting needs.

# Real-Time Citation Alerts Keep Teams Current

Another transformative aspect of Scite for the company was the alert system. Rather than having to periodically check for new citations – a process that often meant missing important developments for weeks or even months – they could now receive immediate notifications when their work was cited.

The company set up alerts on their comprehensive dashboard, which meant any time a new paper cited any of their publications, key team members would receive an email notification. This real-time awareness allowed them to stay on top of developing scientific conversations and respond quickly to new findings that might impact their research programs.

The alerts proved especially valuable when other researchers identified limitations in their studies or suggested new research directions. Instead of discovering these insights months later during routine literature reviews, the team could engage with new developments while they were still fresh and relevant to their ongoing work.



This proactive approach to citation monitoring gave the company a significant competitive advantage, allowing them to adapt their research strategies based on the latest scientific developments and maintain their position at the forefront of their field.