

# AI Powered Discovery: How LibKey is Enabling Next Generation Research Assistants

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Third Iron, LLC  
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# LibKey intelligent access



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data**

+



**Real-time  
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=

**Fastest,  
most reliable,  
informed linking**



# Article level **intelligence**



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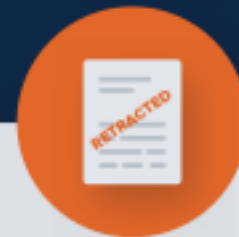
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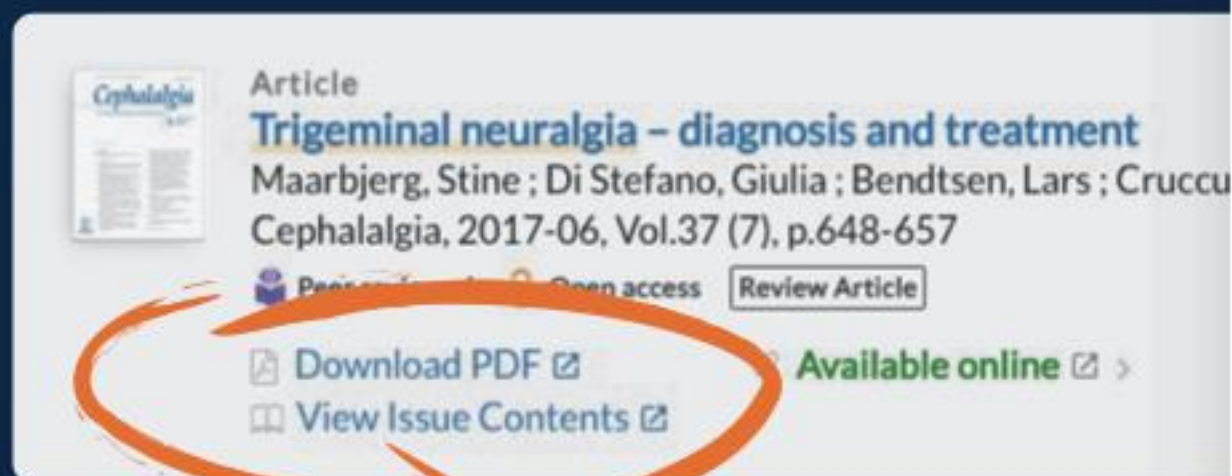


**Accepted  
Manuscripts**



**ILL/Document  
Delivery**

# LibKey experience



The screenshot shows the article page for 'Trigeminal neuralgia – diagnosis and treatment' by Maarbjer, Stine; Di Stefano, Giulia; Bendtsen, Lars; and Cruccu. The journal is 'Cephhalalgia', 2017-06, Vol.37 (7), p.648-657. There are buttons for 'Download PDF' and 'View Issue Contents', both with external link icons. A large orange circle is drawn around these two buttons. An orange arrow points from the 'Download PDF' button to the 'Definition' section of the article preview on the right.

Article  
**Trigeminal neuralgia – diagnosis and treatment**  
Maarbjer, Stine ; Di Stefano, Giulia ; Bendtsen, Lars ; Cruccu  
Cephhalalgia, 2017-06, Vol.37 (7), p.648-657

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Review

Cephhalalgia  International Headache Society

Cephhalalgia  
33(7), 648-657  
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## Trigeminal neuralgia – diagnosis and treatment

Stine Maarbjer<sup>1</sup>, Giulia Di Stefano<sup>2</sup>, Lars Bendtsen<sup>1</sup> and Giorgio Cruccu<sup>3</sup>

### Abstract

**Introduction:** Trigeminal neuralgia (TN) is characterized by touch-evoked unilateral brief shock-like paroxysmal pain in one or more divisions of the trigeminal nerve. In addition to the paroxysmal pain, some patients also have continuous pain. TN is divided into classical TN (CTN) and secondary TN (STN).

**Etiology and pathophysiology:** Demyelination of primary sensory trigeminal afferents in the root entry zone is the predominant pathophysiological mechanism. Most likely, demyelination paves the way for generation of ectopic impulses and ephaptic crosstalk. In a significant proportion of the patients, the demyelination is caused by a neurovascular conflict with morphological changes such as compression of the trigeminal root. However, there are also other unknown etiological factors, as only half of the CTN patients have morphological changes. STN is caused by multiple sclerosis or a space-occupying lesion affecting the trigeminal nerve.

**Differential diagnosis and treatments:** Important differential diagnoses include trigeminal autonomic cephalgia, posttraumatic or postherpetic pain and other facial pains. First line treatment is prophylactic medication with sodium channel blockers, and second line treatment is neurosurgical intervention.

**Future perspectives:** Future studies should focus on genetics, unexplored etiological factors, sensory function, the neurosurgical outcome and complications, combination and neuromodulation treatment as well as development of new drugs with better tolerability.

**Keywords:** Trigeminal neuralgia, criteria, guidelines, treatment, etiology, pathophysiology

Date received: 15 October 2016; revised 21 November 2016; accepted 7 December 2016

### Definition

According to the beta version of the 3<sup>rd</sup> edition of the International Classification of Headache Disorders (ICHD-3 Beta) (1) (Table 1), trigeminal neuralgia (TN) is defined by recurrent unilateral brief electric shock-like pain that is abrupt in onset and termination. The pain is restricted to one or more of the trigeminal divisions and is triggered by innocuous sensory stimuli. TN is divided into either classical TN (CTN) or secondary TN (STN) caused by multiple sclerosis or a space-

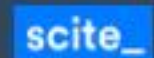
### Symptomatology

In early descriptions of TN, the disorder was called tic douloureux (1), addressing the characteristic wince that TN patients may exhibit at a pain paroxysm; TN pain is not only extremely painful, it is also characteristic that the pain is sudden and unexpected, and short-lasting, hence the term pain paroxysm. The pain quality is stabbing, electrical shock-like, or shooting. Although one single

## Open Web Searching



## AI services and research tools



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## Databases



## Discovery services

Primo



LibKey

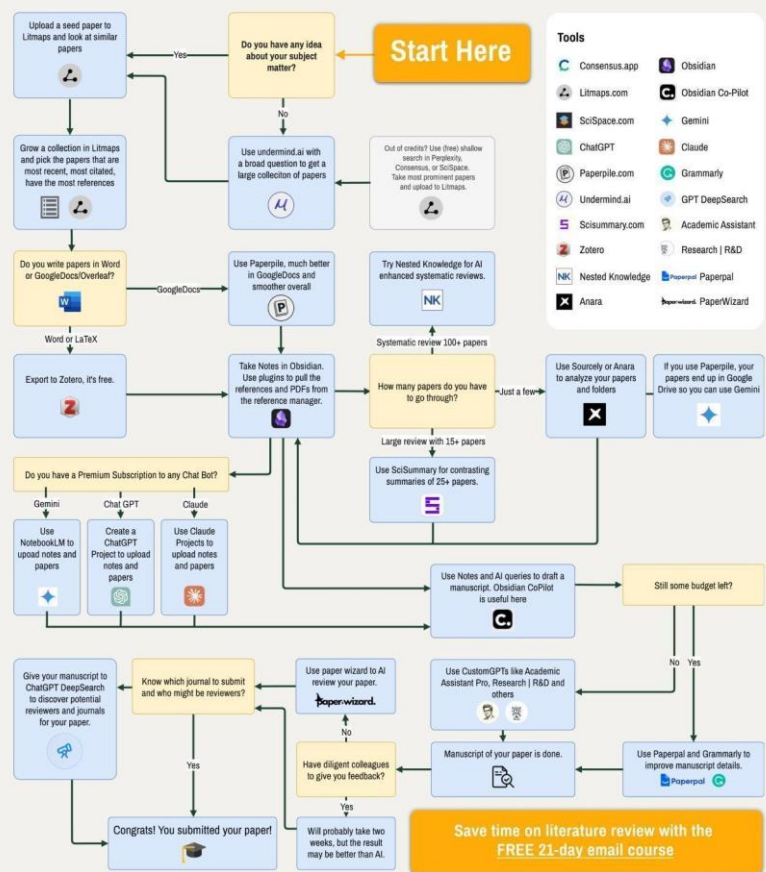


Full Text

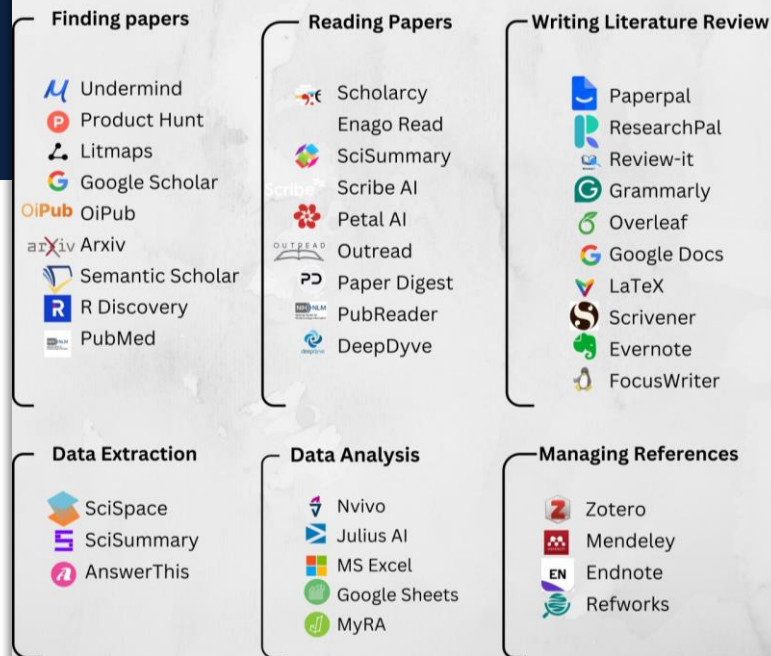


# New AI research services

## The AI Lit Review Workflow in 2025



## Tools for Literature Review

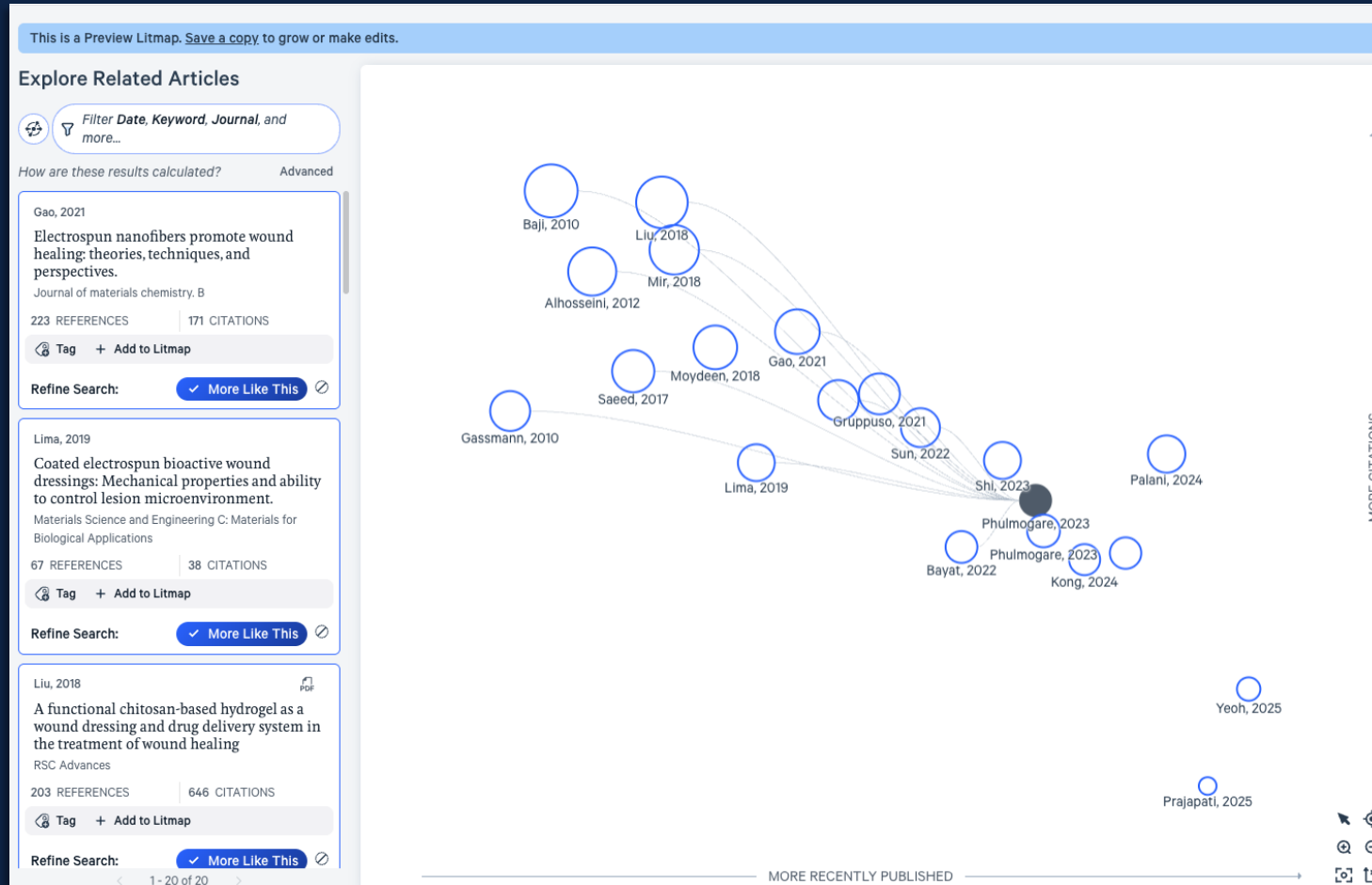


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## Top AI Research Tools to help you with your PhD Thesis

Literature Search	Litmaps	Elicit	Undermind
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Paper Summary	Scholarcy	SciSummary	Resoomer
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Quantitative Research	R	SPSS	Julius AI





- Citation mapping service that visualizes citation networks to facilitate discovery, monitoring, organization and collaboration
- Launched 2021
- Raised \$1MM (to acquire Research Rabbit)
- "Used by 350,000+ researchers worldwide"



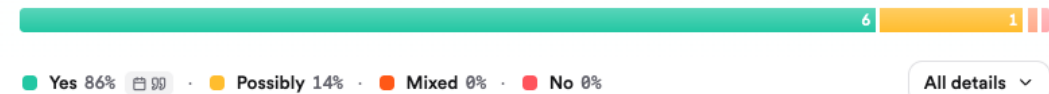
- Evidence synthesis, summarizing current state of research
- Launched 2022
- Raised \$11.5MM
- "Over 5 million researchers, students, and clinicians trust Consensus"; "7 million users, web traffic has surpassed WoS and Scopus"

## can electrospun dextran be used for wound healing?

Pro · 1 step · 8 sources

Yes, **electrospun dextran-based nanofibers** show strong potential for use in wound healing applications due to their biocompatibility, ability to promote cell proliferation, and antimicrobial properties.

Can electrospun dextran be used for wound healing? N = 7



### Mechanisms and Benefits

Electrospun dextran, often blended with other polymers like polyvinyl alcohol (PVA) or polyurethane, forms nanofibrous scaffolds that mimic the extracellular matrix, supporting cell attachment and proliferation—key factors in wound healing. These scaffolds can be loaded with bioactive agents (e.g., antibiotics, growth factors) for controlled release, further enhancing healing and infection control 1 2 3 4 5 6.

### Evidence from Research

- **Enhanced Wound Closure:** In vivo studies using PVA/dextran nanofibers loaded with fucoidan or antibiotics demonstrated significantly improved wound closure rates and prolonged bioactive agent availability at the wound site 1 2.
- **Cell Proliferation and Antimicrobial Activity:** Electrospun dextran-based nanofibers promote fibroblast proliferation and exhibit strong antimicrobial properties, especially when loaded with antibacterial drugs like ampicillin, tetracycline, or ciprofloxacin 2 4 6.
- **Biocompatibility and Customization:** Dextran-based nanofibers are cytocompatible, support neovascularization.

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Electrospun Dextran for Wound Healing

Research reportView only

SEPTEMBER 8, 2025

can electrospun dextran be used for wound healing?

Electrospun dextran-based scaffolds effectively promote wound healing in laboratory settings by enhancing fibroblast activity, cell proliferation, and wound closure mechanisms.

ABSTRACT

Electrospun dextran-based scaffolds were evaluated in three laboratory studies for wound healing. \* One study using polyvinyl alcohol–dextran nanofibers with citric acid and sodium ampicillin reported that lower citric acid levels yielded the highest wound gap closure and increased human fibroblast proliferation, with higher citric acid concentrations enhancing scaffold mechanical and thermal stability and offering strong antimicrobial effects. \* Another investigation with polyurethane–dextran nanofibers incorporating beta-estradiol supported cell proliferation and suggested potential for neovascularization, albeit with limited quantitative data. \* A third study employing a dextran/poly(lactic-co-glycolic acid) scaffold found that dermal fibroblast viability, proliferation, migration, extracellular matrix deposition, and gel contraction improved alongside increased scaffold strength. \*

These findings indicate that electrospun dextran composites activate key cellular and mechanical processes associated with wound healing in controlled laboratory settings. \*

METHODS >

We analyzed 3 sources from an initial pool of 50, using 8 screening criteria. Each paper was reviewed for 5 key aspects that mattered most to the research question. [More on methods](#)

RESULTS

Characteristics of Included Studies

Study	Composite Material	Target Application	Assessment Methods	Key Outcomes
Kenawy et al., 2022	Polyvinyl alcohol (10%)–dextran (10%) nanofibers, citric acid (1–10%), sodium ampicillin *	Topical wound healing *	In vitro: human fibroblast (HFB-4) cells; cell viability (MTT) assay; wound gap closure; antimicrobial	Enhanced cell proliferation, accelerated wound closure, st antimicrobial activity, improvec

- Tailored to systematic reviews and automated extraction - ideal for rigorous literature synthesis
- Launched 2023
- Raised \$22MM
- "Over 2 million researchers"

# moara

- Highly integrated workflow tool, helping researchers from design, to discovery, to document creation
- Launched in 2025
- Undisclosed funding
- Promoting library “pilots” over number of users

The screenshot displays the Moara interface for a research paper titled "Electrospun dextran". The interface includes a sidebar, a main content area with a "Summary" section, and a "Essential (10)" section. The "Summary" section contains a detailed paragraph about electrospun dextran-based materials. The "Essential (10)" section lists two papers: "Electrospun Nanofibers as Scaffolds for Wound Healing" and "Latest Progress in Electrospun Nanofibers for Wound Healing Applications". Each paper entry includes a progress indicator, title, authors, journal, abstract, and citation count.

Electrospun dextran

Notepad

Summary

Electrospun dextran-based materials are emerging as a significant advancement in wound healing applications, particularly due to their ability to mimic native tissue structures and support multifunctional capabilities. The synthesis of research findings highlights electrospinning as a versatile technique that not only allows for the creation of fibrous scaffolds resembling native tissue but also supports the incorporation of bioactive substances for enhanced wound healing [Adnan Memić et al. \(2019\)](#). Particularly, the use of dextran in electrospun fibers leverages its properties for creating moist wound environments conducive to healing while potentially integrating antibacterial and cell growth-promoting functionalities [C. Nwachukwu et al. \(2017\)](#). Moreover, the development of Dex-loaded core/shell nanofibers specifically addresses oxidative stress in wound sites, which is crucial for reducing chronic inflammation and promoting faster tissue repair [Seyede Sahar Hashemi et al. \(2024\)](#). This approach underscores the importance of targeted therapeutic delivery through scaffold design, which can significantly impact healing efficacy. However, despite these advancements, challenges remain in optimizing these materials for clinical use, particularly concerning the interactions between these fibers and cellular behaviors in complex wound environments [C. Nwachukwu et al. \(2017\)](#). The research also points to a need for further exploration into the multifunctional capabilities of these scaffolds, such as simultaneous infection control and promotion of tissue regeneration [Chen Gao et al. \(2021\)](#), [Juliana Mikaely Dias Soares et al. \(2016\)](#). Future studies should focus on refining the physicochemical properties of these scaffolds to enhance their practical application in diabetic ulcers and other complex wound types, as indicated by [Juliana Mikaely Dias Soares et al. \(2016\)](#) and [Seyede Sahar Hashemi et al. \(2024\)](#).

Essential (10)

☆ Save 7 essential papers

100.0% Electrospun Nanofibers as Scaffolds for Wound Healing

C. Nwachukwu, G. Einstein, O. Tulp | The FASEB Journal

Abstract A chronic non-healing wound presents a challenging and escalating problem which exposes patients to a high risk of infection. Current treatment narrows in on wound dressings that keep an environment of equal moisture and gas balance. Antibacterial dr... [Expand](#)

2017 | Citations: 1

PDF Saved

99.0% Latest Progress in Electrospun Nanofibers for Wound Healing Applications.

Adnan Memić, Tuerdimaimaiti Abudula, H. S. Mohamm... | ACS applied bio materials

Abstract Electrospinning is a versatile technique used to create native tissue-like fibrous scaffolds. Recently, it has gained a large amount of attention for generation of bioactive dressing materials suitable for treatment of both chronic and acute wounds. ... [Expand](#)

2019 | Citations: 264

☆ Save



# ANSWERTHIS

**Answer**

Can electrospun dextran be used for wound healing?

**Used tools**

Electrospun dextran—especially when used in combination with other polymers—shows significant promise as a material for wound healing applications.

To begin, electrospun polyvinyl alcohol–dextran (PVA–Dextran) nanofibrous scaffolds have been developed specifically for topical wound healing. These scaffolds demonstrate enhanced mechanical and thermal stability, wettability, and show a concentration-dependent ability to promote fibroblast proliferation, as well as notable antimicrobial activity. In vitro experiments show that wound closure rates are accelerated with these scaffolds compared to control samples, indicating their positive impact on wound healing processes[1].

Dextran is a carbohydrate polymer, and electrospun nanofibers made from such biocompatible and biodegradable polymers have attracted notable interest for biomedical applications like wound dressings. These fibers can be engineered for drug delivery and loaded with antimicrobial or healing-promoting agents, making them highly adaptable for different wound types. Their high surface area-to-volume ratio and porosity mimic the extracellular matrix, supporting cell attachment and growth[2].

Furthermore, electrospun nanofibers—including those made with dextran—can be designed to act as both cell-supportive scaffolds and vehicles for controlled release of bioactive compounds, supporting tissue regeneration and infection control[3]. Several reviews emphasize the broad utility of carbohydrate-based electrospun fibers for advanced wound healing, including the ability of dextran-based materials to serve as scaffolds and drug-release platforms[4][5].

Supporting these findings, there are methods to produce dextran fibers capable of carrying bioactive agents such as antibiotics and hemostatics. For example, dextran fibers loaded with antibiotics have demonstrated the ability to suppress bacterial growth and support clot formation, which are crucial for complex wound environments[6].

**Sources for Q1** Can electrospun dextran be used for wound healing?

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Select papers to perform actions like Chat, Summarize, or Export.

**Electrospun PVADextran Nanofibrous Scaffolds for Acceleration of Topical Wound Healing: Nanofiber Optimization, Characterization and In Vitro...**

ElRefaie Kenawy, Elbadawy A. Kamoun, Ma... Springer Science+Business Media 2022-05-30 # 28 citations DOI

PDF Available

E. Kenawy et al., "Electrospun PVADextran Nanofibrous Scaffolds for Acceleration of Topical Wound Healing: Nanofiber Optimization, Characterization and In Vitro Assessment," Springer Science+Business Media, 2022. <https://doi.org/10.1007/s13369-022-06856-9>

Chat Save

Show details

**Emerging applications of nanofibers electrospun from carbohydrate polymers**

Nicole Angel, Songnan Li, Lingyan Kong Elsevier BV 2023-12-14 # 15 citations DOI

N. Angel, S. Li, L. Kong, "Emerging applications of nanofibers electrospun from carbohydrate polymers," Elsevier BV, 2023. <https://doi.org/10.1016/j.jfutfo.2023.11.001>

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**Recent Advances in Electrospun Nanofibers for Wound Healing**

medicine 2017-05-18 # 366 citations

PDF Available

Ask follow up question

- AI assistant for research; finds and summarizes papers, helps identify research gaps, organizes findings
- Launched in 2025
- Part of the RIoT Accelerator Program
- "Trusted by over 100,000+ researchers"

# Summary of new services

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**Emergent and evolving**

---

**Funded**

---

**Have both B2C and B2B revenue models**

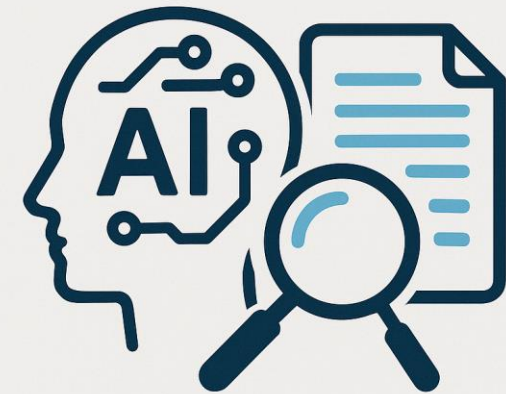
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**Being used by lots of researchers**

---

**Primarily use DOIs to connect to full text**

---



**AI RESEARCH**

# Uncertainty of access

can electrospun dextran be used for wound...  
1 query

**Wound Healing.**

Increasing fucoidan content (0.25 to 1%) in electrospun nanofibers significantly increased wound healing potential and improved wound area closure in rats.

IN VITRO STUDY

2023 · 12 citations · Ganesh Phulmogare et al. · *International journal of pharmaceutics*

**Electrospun PVA–Dextran Nanofibrous Scaffolds for Acceleration of Topical Wound Healing: Nanofiber Optimization, Characterization and In Vitro...**

Electrospun PVA-Dextran nanofibers with high concentrations of dextran accelerate wound healing and promote cell proliferation.

ASK THIS PAPER

2022 · 26 citations · E. Kenawy et al. · *Arabian Journal for Science and ...*

**Electrospun polyurethane-dextran nanofiber mats loaded with Estradiol for post-menopausal wound dressing.**

Electrospun polyurethane-dextran nanofiber mats loaded with  $\beta$ -estradiol can accelerate healing of acute cutaneous wounds and promote skin regeneration in chronic wounds.

HIGHLY CITED

2015 · 115 citations · A. R. Unnithan et al. · *International journal of biologi...*

**Electrospun bioactive poly ( $\epsilon$ -caprolactone)–cellulose acetate–dextran**

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ELSEVIER

International Journal of Pharmaceutics  
Volume 650, 25 January 2024, 123722

**Fucoïdan loaded PVA/Dextran blend electrospun nanofibers for the effective wound healing**

Ganesh Phulmogare <sup>a</sup>, Sarita Rani <sup>a</sup>, Santram Lodhi <sup>b</sup>, Umesh K. Patil <sup>c</sup>, Sonal Sinha <sup>d</sup>, Ajazuddin <sup>d</sup>, Umesh Gupta <sup>a</sup>

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<https://doi.org/10.1016/j.ijpharm.2023.123722> Get rights and content

**Abstract**

Chronic wounds have become a serious global health issue. In this study, we investigated the effect of increasing **fucoidan** (FD) concentration on the characteristics of nanofibers and their wound

Recommended articles

**Anti-inflammatory effects of sodium alginate/gelatine porou...**

International Journal of Biological Macro...  
Van-Tinh Nguyen, ..., Won-Kyo Jung

**Angiogenic potential of airbrushed...**

International Journal of Biological Macro...  
Lara L. Reys, ..., Tiago H. Silva

**Fucoïdan-loaded nanofibrous scaffolds promote annulus...**

Acta Biomaterialia, Volume 148, 2022, pp....  
Qifan Yu, ..., Caihong Zhu

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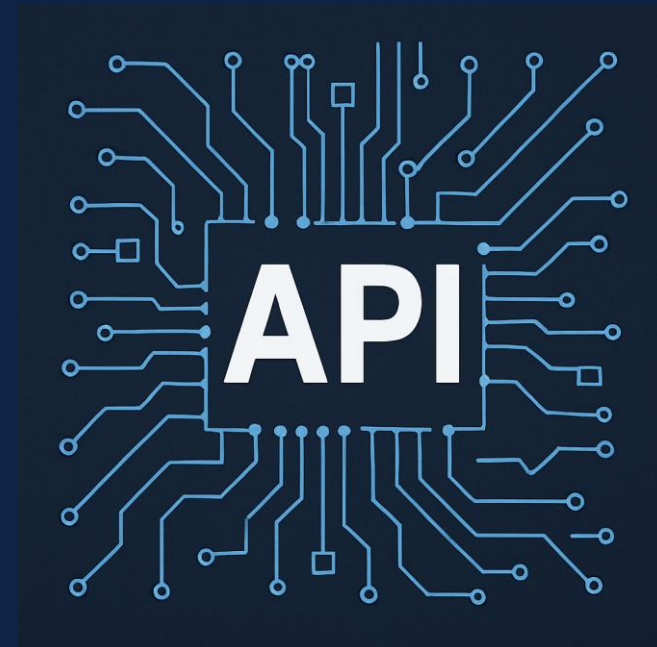
**Article Metrics**

Citations

Citation Indexes 15

# LibKey: integrating Library Holdings and full-text access into AI Services

- New services are using LibKey to understand awareness of holdings and connect their users to library collections
- LibKey's patented signposting API helps researchers understand what experience to expect when retrieving full text as well as see article status (retraction, expression of concern, etc. in real time)
- Completes the research process with easy access to full text (publisher, aggregator, ILL and document delivery)
- Free for platforms to use, included with LibKey access for libraries





# LibKey API logic

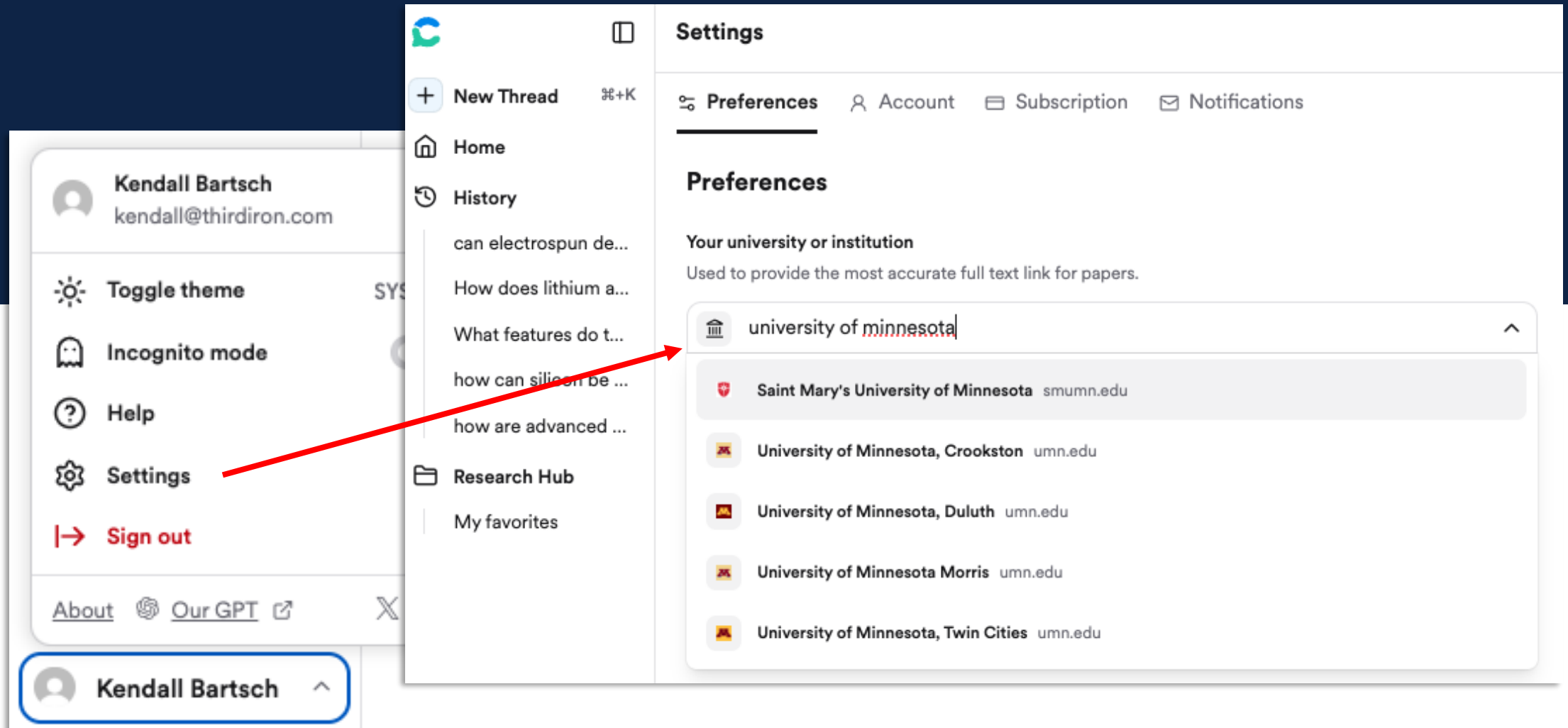
## Article Lookup

- Issue a GET request to the Third Iron endpoint with:
  - DOI or PMID
  - Library ID
  - API key
- LibKey API returns:
  - “bestIntegratorLink” for the optimal URL for accessing the article
  - Open Access Status
  - Retraction status

## Library List Endpoint

- Provides a real-time catalog of all LibKey libraries

# User affiliation in AI services



# LibKey integration experience

4 Electrospun bioactive poly ( $\epsilon$ -caprolactone)–cellulose acetate–dextran antibacterial composite mats for wound dressing applications ✓ YES

Electrospun dextran composite mats with tetracycline hydrochloride improve cell proliferation, blood clotting ability, and wound healing.

IN VITRO STUDY HIGHLY CITED

2015 · 127 citations · Nina Liao et al. · Colloids and Surfaces A: Physicochemical and Engineering Aspects

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journal homepage: [www.elsevier.com/locate/colsurfa](http://www.elsevier.com/locate/colsurfa)

Electrospun bioactive poly ( $\epsilon$ -caprolactone)–cellulose dextran antibacterial composite mats for wound dressing applications

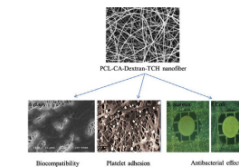
Afeesh Rajan Unnithan<sup>a</sup>, Mahesh Kumar Joshi<sup>a</sup>, Arjun Prasad Tiwari<sup>b</sup>, Jol Hong<sup>b</sup>, Chan-Hee Park<sup>a,c,\*</sup>, Cheol Sang Kim<sup>a,c,\*</sup>

<sup>a</sup>nano System Engineering, Chonbuk National University, Jeonju 561-756, Republic of Korea  
<sup>b</sup>Microbiology and Genetics, Medical School, Chonbuk National University, Jeonju 561-756, Republic of Korea  
<sup>c</sup>Department of Mechanical Design Engineering, Chonbuk National University, Jeonju 561-756, Republic of Korea

### HIGHLIGHTS

- One step synthesis of PCL–CA–dextran–drug loaded nanofibers via electrospinning.
- Enhanced blood clotting and excellent platelet activation ability.
- Good bactericidal activity against both gram-positive and gram-negative bacteria.
- Scaffolds showed enhanced cell viability and infiltration.
- Applicable to most of the open wounds due to bactericidal activity.

### GRAPHICAL ABSTRACT



### ARTICLE INFO

### ABSTRACT

# Adds problematic article notification

4 **Electrospun bioactive poly ( $\epsilon$ -caprolactone)–cellulose acetate–dextran antimicrobial mats for wound dressing applications**

Electrospun dextran composite mats with tetracycline hydrochloride improve cell clotting ability, and cell attachment for wound dressing applications.

IN VITRO STUDY HIGHLY CITED

2015 · 127 citations · Nina Liao et al. · *Colloids and Surfaces A: Physicochemical and Engineering Aspects*

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PDF

**Electrospun bioactive poly ( $\epsilon$ -caprolactone)–cellulose acetate–dextran antibacterial composite mats for wound dressing applications**  
*Colloids and Surfaces A: Physicochemical and Engineering Aspects*  
Liao, Nina; Unnithan, Afeesh Rajan; Joshi, Mahesh Ku...  
Vol. 469, pp. 194–201, 2015.

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**Article Contains Retracted Citations**

RETRACTED: PREPARATION AND PERFORMANCE EVALUATION OF TETRACYCLINE HYDROCHLORIDE LOADED WOUND DRESSING MATS BASED ON ELECTROSPUN NANOFIBROUS...

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# LibKey integration benefits

## Users

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Instant full-text access

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Streamlined workflow

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Safeguards research integrity

## Libraries

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Increased visibility of holdings and library services

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Increased usage of library resources


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Usage tracking and analytics\*

# AI assisted Literature Review tools

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 **Consensus**

 **Undermind**

 **scite\_**

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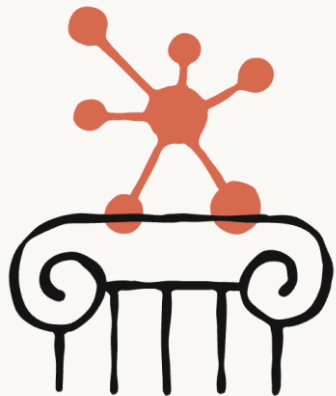
Primo Research Assistant

[My list of "innovative" literature review tools](#)

# Looking ahead



MODEL CONTEXT  
PROTOCOL



## Can Electrospun Dextran Be Used for Wound Healing?

### Summary Answer

Yes — electrospun dextran, either alone or blended with other materials, shows promising potential for wound healing. Studies have shown its ability to promote proliferation and antimicrobial activity, and effective wound regeneration.

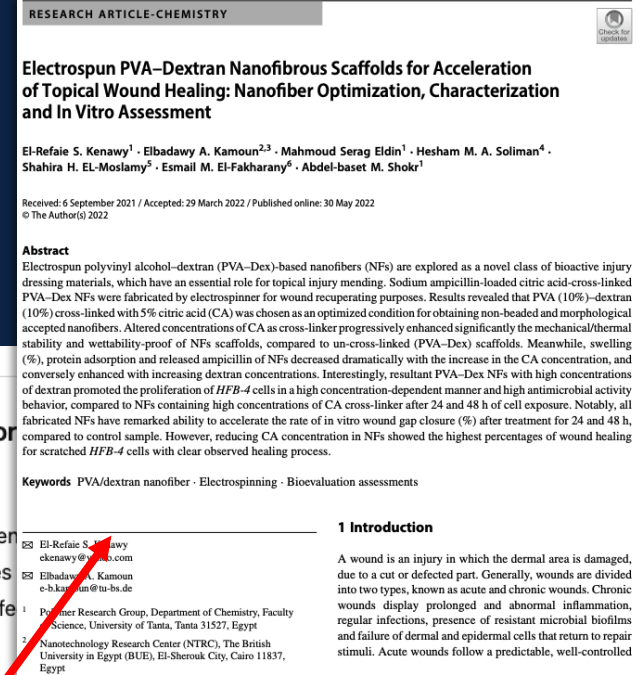
### Evidence from the Scientific Literature

- **Dextran's Inherent Wound-Healing Properties**

Dextran on its own has demonstrated the ability to promote wound healing in animal models, suggesting intrinsic therapeutic potential. Crosslinked dextran-based nanofibers have been identified as promising scaffolds in tissue engineering and drug delivery, with proven in vivo efficacy in rat wound models. ScienceDirect

- **Key Advantages of Dextran in Wound Application**

As a biomacromolecule, dextran is valued for its **biocompatibility**, **biodegradability**, **low toxicity**, and clinical safety profile. These characteristics make it well-suited for wound dressing development. ScienceDirect



# LibKey



Integrating LibKey  
into AI service  
access infrastructure

# Bridge to access



- › Enables users reliably connect with more Open Access content, especially that published in hybrid journals
- › Helps preserve scholarly integrity
- › Prevents the spread of misinformation
- › Ensures reliable research output



# Thank you!

Kendall Bartsch  
CEO | Co-founder  
Third Iron, LLC  
[kendall@thirdiron.com](mailto:kendall@thirdiron.com)