

Enhance Your **Research Visibility** with the **Science Communicator Platform**



Science Communicator Platform

Stay connected! Follow us on X network (Twitter):

Life Sciences & Medicine

Go

View Public Version

Share this content!

On (X network)

By

How to Cite

Search

Search

The Roles of Quercetin in Diabetes Mellitus and Related Metabolic Disorders; Special Focus on the Modulation of Gut Microbiota: A Comprehensive Review [Publisher](#) [PubMed](#)

Summary: Quercetin, found in many fruits and vegetables, may help manage diabetes and metabolic disorders by improving gut health and reducing oxidative stress. Include quercetin-rich foods like apples, berries, and onions in your diet. More research is needed.

Roshanravan N¹; Askari SF^{2,3}; Fazelian S⁴; [Ayati MH](#)^{5,6}; [Namazi N](#)⁷ [Show Affiliations](#)

Source: *Critical Reviews in Food Science and Nutrition* Published:2023



Abstract

Quercetin is a dietary flavonoid that can affect the balance between anti-oxidant defense system and oxidative stress. A number of studies showed the positive effects of quercetin on diabetes mellitus and related metabolic disorders through different pathways such as gut flora. However, findings are conflicting. In addition, it seems no studies have summarized all potential mechanisms of quercetin in diabetes mellitus, so far. Therefore, the aims of the present comprehensive review were to provide an overview on biological and biochemical characteristics of quercetin and investigate the effect of quercetin on diabetes mellitus and related metabolic disorders by focusing on its effects on the modulation of gut microbiota. For this purpose, findings of In vitro, animal studies, clinical trials, and review studies with the English language published until January 2021 were summarized. They were identified through electronic databases (PubMed, Scopus, and Cochrane Library) and Google Scholar. Findings showed that quercetin can be an effective component for improving glycemic status and other metabolic disorders related to diabetes mellitus based on In vitro and animal studies. However, environmental factors, food processing and using nanoformulations can affect its efficacy in human studies. Several potential mechanisms, including the modulation of gut flora are proposed for its actions. However, due to limited clinical trials and contradictory findings, more high-quality clinical trials are needed to make a decision on the efficacy of supplementation with quercetin as a complementary therapy for the management of diabetes mellitus, metabolic disorders, and modulating gut flora. © 2021 Taylor & Francis Group, LLC.

Related Docs

[View other Related Docs](#)

1. [Effects of Quercetin Supplementation on Glycemic Control Among Patients With Metabolic Syndrome and Related Disorders: A Systematic Review and Meta-Analysis of Randomized Controlled Trials](#), *Phytotherapy Research* (2019)
2. [Quercetin and Polycystic Ovary Syndrome: Inflammation, Hormonal Parameters and Pregnancy Outcome: A Randomized Clinical Trial](#), *American Journal of Reproductive Immunology* (2023)
3. [Effects of Quercetin and Low-Level Laser on Oxidative and Inflammatory Factors Among Patients With Type 2 Diabetes Mellitus and Mild Cognitive Impairment](#), *Bioactive Compounds in Health and Disease* (2022)

Experts (# of related papers)

[View all Related Experts](#)

[Ashraf Moini](#) (4)

[Mohammad Javad Hosseinzadeh Attar](#) (3)



Connecting Research with Global Audiences



Research Impact Solutions LTD

20 Wenlock Road

London, England N1 7GU

www.RImpactS.com

Introduction

In today's competitive academic landscape, simply publishing research in journals is not enough to maximize its visibility and impact. Institutions need innovative tools and strategies to showcase their research effectively to a global audience. Our Science Communicator Platform is designed to help academic institutions organize and promote their publications, increasing their visibility through web search engines and social media platforms.

Features of the Science Communicator Platform

1. Comprehensive Publication Profiles

For each of your institution's publications, the platform provides detailed bibliographic information, including:

- Title
- Abstract
- Authors
- Place and Year of Publication
- Links to Publisher Websites
- Access to Free Full Versions (if available)
- PubMed Links (if applicable)

2. Related Publications and Experts

- **Related Works:** Each publication page showcases other related publications from your institution, allowing users to explore more of your research in the same field.
- **Expert Connections:** Identify and display a list of faculty members who have worked on similar topics, highlighting shared research interests and expertise levels.

Other Related Docs

4. [Targeting Inflammation by Flavonoids: Novel Therapeutic Strategy for Metabolic Disorders](#), *International Journal of Molecular Sciences* (2019)
5. [Overview of Biological Effects of Quercetin on Ovary](#), *Phytotherapy Research* (2021)
6. [Antidiabetic Effect of Quercetin: A Systematic Review and Meta-Analysis of Animal Studies](#), *Food and Chemical Toxicology* (2019)
7. [Quercetin in Attenuation of Ischemic/Reperfusion Injury: A Review](#), *Current Molecular Pharmacology* (2021)
8. [Oral Quercetin Supplementation Enhances Adiponectin Receptor Transcript Expression in Polycystic Ovary Syndrome Patients: A Randomized Placebo-Controlled Double-Blind Clinical Trial](#), *Cell Journal* (2018)
9. [Gut Microbiota As a Target in the Pathogenesis of Metabolic Disorders: A New Approach to Novel Therapeutic Agents](#), *Hormone and Metabolic Research* (2016)
10. [A Narrative Review on Therapeutic Potential of Naringenin in Colorectal Cancer: Focusing on Molecular and Biochemical Processes](#), *Cell Biochemistry and Function* (2024)

3. Enhanced Summaries and Visuals

- **Generated Summaries:** Quickly communicate the essence of each publication with concise summaries suitable for a wider audience.
- **Attractive Visuals:** Automatically create relevant images for publications to capture users' attention and convey the message more effectively.

New Hydrogel Technology Could Transform Dental Products


Summary: New dental gel with PRFe offers enhanced tooth repair and regeneration, using natural materials that harden with dental light. This innovation promises new product lines and market expansion for dental product manufacturers.



4. Faculty Member Profiles

- Individual profiles for each faculty member include all their publications.
- Show connections with other researchers in similar fields within your institution.
- Easy identification of expertise areas for collaboration and networking.

View Public Version
View Technical Version
Faculty Members have conducted research related to the The Development of a Dental Light Curable Prfe-Loa Dentine Complex Regeneration: An in Vitro Study



Mohammad Hossein Nekoofar

Associate Professor of Endodontics
Department Endodontics
School of Dentistry
Tehran University of Medical Sciences

Related Documents

1. The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study, *International Endodontic Journal* (2023)
2. Advances in Scaffolds Used for Pulp-Dentine Complex Tissue Engineering: A Narrative Review, *International Endodontic Journal* (2022)
3. Photoreactive Hydrogels Based on Type I Collagen Extracted From Different Sources As Scaffolds for Tissue Engineering Applications: A Comparative Study, *Materialia* (2023)
4. The Role of Stem Cell Therapy in Regeneration of Dentine-Pulp Complex: A Systematic Review, *Progress in Biomaterials* (2018)
5. Microstructure and Color Stability of Calcium Silicate-Based Dental Materials Exposed to Blood or Platelet-Rich Fibrin, *Clinical Oral Investigations* (2023)
6. Isolation and Differentiation of Adipose-Derived Stem Cells Into Odontoblast-Like Cells: A Preliminary in Vitro Study, *Cell Journal* (2021)

5. User-Friendly Citation and Sharing Tools

- **Citation Formats:** Users can cite your publications effortlessly in various formats like MLA, APA, Chicago, Harvard, Vancouver, and more.
- **Social Media Integration:** Content can be easily shared across different social media platforms, expanding your research's reach.

View Public Version
Share this content!
On (X network) By
How to Cite

The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study

[Publisher](#) [Pubmed](#)

6. Advanced Search Capabilities

- **Embedded Search Interface:** Users can search through all publications using various search strategies and formulas.
- **Public Versions for Non-Experts:** Provide accessible summaries aimed at non-technical users, highlighting the applications, advantages, and results of your research.

7. External Connectivity

- **Link Integration:** The platform connects with social media channels, Wikipedia, news agencies, and more.
- **Redirection to Detailed Information:** Users clicking on links or posts about your publications are redirected to the Science Communicator Platform for comprehensive information.

Benefits for Your Institution

- **Increased Visibility:** Enhance the discoverability of your research both within the academic community and among the general public.
- **Boosted Citations:** Greater visibility can lead to increased citations, positively impacting your institution's global ranking.
- **Enhanced Reputation:** Showcase the depth of knowledge and expertise at your institution, strengthening its reputation worldwide.
- **Expanded Collaborations:** Facilitate connections with researchers, industries, and societies, fostering domestic and international collaborations.
- **Stronger Industry Connections:** Highlight your institution's research capabilities to potential industry partners.

Cite ✕

Style	Citing Format
MLA	Noochi P, et al. "The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study." <i>International Endodontic Journal</i> , vol. 56, no. 4, 2023, pp. 447-464.
APA	Noochi P, Abdekhodaei MJ, Saadatmand M, Nekoofar MH, Dummer PMH. The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study. <i>International Endodontic Journal</i> , 56(4): 447-464.
Chicago	Noochi P, Abdekhodaei MJ, Saadatmand M, Nekoofar MH, Dummer PMH. "The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study." <i>International Endodontic Journal</i> 56, no. 4 (2023): 447-464.
Harvard	Noochi P et al. (2023) "The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study," <i>International Endodontic Journal</i> , 56(4), pp. 447-464.
Vancouver	Noochi P, Abdekhodaei MJ, Saadatmand M, Nekoofar MH, Dummer PMH. The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study. <i>International Endodontic Journal</i> , 2023;56(4):447-464.
BibTex	@article{ author = {Noochi P and Abdekhodaei MJ and Saadatmand M and Nekoofar MH and Dummer PMH}, title = {The Development of a Dental Light Curable Prfe-Loaded Hydrogel As a Potential Scaffold for Pulp-Dentine Complex Regeneration: An in Vitro Study}, journal = {International Endodontic Journal}, volume = {56}, number = {4}, pages = {447-464}, year = {2023} }
RIS	TY - JOUR AU - Noochi P AU - Abdekhodaei MJ AU - Saadatmand M AU - Nekoofar MH

© 2023 Science Communicator. All rights reserved. All publications are peer-reviewed and indexed.

Our Services for Amplifying Your Research Impact

Strategic Channel Selection

- We help you identify the most effective social media platforms and channels to maximize your research's visibility and impact.

Visibility Enhancement Strategies

- Understand how increased visibility can enhance citations, reputation, and scientific collaborations.
- Strengthen connections with industries and societies, making them more robust than ever before.

Targeted Audience Engagement

- Connect with audiences specifically interested in your content, including:
 1. Researchers Worldwide
 2. Industry Professionals
 3. Institutional Stakeholders
 4. Related Channels and Networks

Quality Follower Growth

- Increase your number of high-quality followers who are genuinely interested in your research and updates.

Improved Global Rankings

- Utilizing our platform and services can contribute to improving your university's rank in global systems by increasing citations, collaboration opportunities, and enhancing reputation.

Conclusion

Publishing your research is just the first step. To truly maximize its impact and visibility, you need to leverage innovative tools and strategies. The **Science Communicator Platform** and our specialized services are here to help your institution shine on the global stage.

Contact us today to learn more about how we can elevate your research visibility and enhance your institution's impact worldwide.

Email: support@rimpact.com