



Raman NAFARIEH

Biomedical Researcher | Inventor | Molecular and Cellular Biology Student

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Location: Tehran, Iran

PROFILE

Undergraduate student in Molecular and Cellular Biology with documented research experience in herbal nanogel formulation, biomedical nanotechnology, and cell-based assay methods. Inventor of a chitosan–hyaluronic acid-based herbal nanogel evaluated through the MTT assay, with Australian provisional and PCT patent applications. Recipient of international invention awards for the same research project, including gold medals and a special award. Experienced in scientific writing, research presentation, laboratory documentation, and intellectual property documentation.

RESEARCH INTERESTS

- Molecular and Cellular Biology
- Biomedical Nanotechnology
- Nanogel-Based Biomedical Applications
- Cancer Cell Biology
- Pharmaceutical Biotechnology
- Herbal-Based Therapeutics

EDUCATIONAL BACKGROUND

Bachelor of Science in Molecular and Cellular Biology

Islamic Azad University, Science and Research Branch

Tehran, Iran | September 2025–Present

High School Diploma

Allameh Tabatabaei High School

Tehran, Iran | 2022–2025

GPA: 18.5/20

PROFESSIONAL EXPERIENCE

Research & Scientific Mentor

Iranian Youth Science and Technology Center (IYSTC) — Tehran, Iran

September 2025 – Present

- Provided scientific mentoring and research guidance for student innovation and science projects, supporting participants in international competitions and research programs.
- Assisted research teams in project development, scientific documentation, presentation preparation, and improvement of research communication skills.
- Guided students in organizing research materials, preparing scientific posters, abstracts, and competition submissions.
- Supported project evaluation processes and provided feedback on research methodology, scientific presentation, and innovation documentation.
- Coached participants in preparing oral presentations and effectively communicating scientific concepts for national and international events.

Published Abstract

Nafarieh, R. (2025). *Evaluation of a Novel Herbal Nanogel Formulation on Skin Cancer Cells Utilizing the MTT Assay*. **Published Abstract**. *Official Catalog of the Innoverse Invention & Innovation Expo 2025*, p. 24, Georgia, USA. Available at:

<https://innoverse.world/innoverse%202025%20catalog%20final.pdf>

PATENTS & INTELLECTUAL PROPERTY

Australian Provisional Patent Application

- **Title:** *Chitosan–Hyaluronic Acid-Based Herbal Nanogel for Inducing Apoptosis in Skin Cancer Cells*
- **Application No.:** 2026906223
- **Applicant / Inventor:** Raman Nafarieh
- **Authority:** IP Australia
- **Validation:** <https://ipsearch.ipaustralia.gov.au/patents/2026906223>

International Patent Application (PCT)

- **Title:** *Chitosan–Hyaluronic Acid-Based Herbal Nanogel for Inducing Apoptosis in Skin Cancer Cells*
- **Application No.:** PCT/IB2026/056777
- **Applicant / Inventor:** Raman Nafarieh
- **Authority:** World Intellectual Property Organization (WIPO)
- **Validation:** Pending / To be added upon publication

Blockchain Intellectual Property Registration

- Platform: Ideaminter
- Registration Date: 07 October 2025
- Technology: Polygon Blockchain

- Owner: Raman Nafarieh

EU Trusted Timestamp Certificate

- **Registration Date:** 07 October 2025
- **Authority:** European Union Trusted Timestamp Service
- **Purpose:** Proof of Existence and Ownership of Intellectual Property

CERTIFICATIONS

- **Certificate of Research Training**

Sadra Mehr Institute of Biological Sciences and Technologies | 2024–2025

Project: *Evaluation of a Novel Herbal Nanogel Formulation on Skin Cancer Cells Utilizing the MTT Assay*

Supervisor: Dr. Ensieh Olamafar

Certificate No.: SMT-RT-2026-0728-001

Date of Issue: July 28, 2026

INTERNATIONAL COMPETITIONS & AWARDS

- **The 6th International Invention and Innovation Competition for IFIA INV Title Holders — Geneva, Switzerland | July 3–5, 2026**

Gold Medal

Project: *Evaluation of a Novel Herbal Nanogel Formulation on Skin Cancer Cells Utilizing the MTT Assay*

- **International Science and Invention Fair (ISIF) — Bali, Indonesia | November 12–15, 2025**

Gold Medal and IYSA Special Award

Project: *Evaluation of a Novel Herbal Nanogel Formulation on Skin Cancer Cells Utilizing the MTT Assay*

- **World Invention Creativity Olympic (WICO) — Seoul, South Korea | July 17–19, 2025**

Silver Award

Project: *Evaluation of a Novel Herbal Nanogel Formulation on Skin Cancer Cells Utilizing the MTT Assay*

- **Innoverse Invention & Innovation Expo — Georgia, USA | August 24, 2025**

Bronze Medal

Project: *Evaluation of a Novel Herbal Nanogel Formulation on Skin Cancer Cells Utilizing the MTT Assay*

MEMBERSHIPS

International Federation of Inventors' Associations (IFIA)

Certified IFIA INV Member

Membership No.: IR2026JUN3284RXN

Verification Link: <https://ifia.com/ir2026jun3284rxn/>

References

- **Dr. Ensieh Olamafar**
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- **Mahdi Rashidyjahan**
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- **John Nik**
Executive Director
INNOVERSE Invention & Innovation Expo
Recommendation Letter Issued — INNOVERSE 2025 Bronze Medal
Email: info@innoverse.world

Skills

Laboratory Skills

- Herbal extraction
- Soxhlet extraction
- Herbal nanogel formulation
- Cell culture techniques
- MTT assay
- Serial dilution
- Inverted microscopy
- Cell counting using Neubauer hemocytometer
- ELISA reader operation
- pH and viscosity measurement
- Physicochemical characterization of nanogel formulations

Research Skills

- Scientific writing
- Literature review
- Data interpretation
- Research poster design
- Scientific presentation
- Patent documentation

Digital Skills

- Microsoft Word

- PowerPoint
- Excel
- Canva

Languages

- Persian: Native
- English: Upper-Intermediate