



Dr. Kattesh V. Katti

MSc. Ed, Ph.D., DSc, FRSC, FNAI
MSc. Ed, Ph.D., DSc, FRSC, FNAI, FAIMBE
Curators' Distinguished Professor
Director, Institute of Green Nanotechnology
University of Missouri, USA

Professional Summary

Kattesh V. Katti is an internationally acclaimed scientist, widely recognized as the **"Father of Green Nanotechnology."** With over four decades of pioneering research, he has made transformative contributions across **green nanotechnology, nanomedicine, and radiopharmaceutical sciences.** He is the **first scientist in the world to integrate green nanotechnology with Ayurveda,** leading to the discovery of a new medical **paradigm—Nano-Ayurvedic Medicine.** His work represents a unique convergence of traditional knowledge systems with modern molecular science, creating a globally relevant and scalable healthcare innovation model.

Dr. Katti is a globally renowned innovator with **100+ patents and over 200 inventions,** and has contributed **400+ scientific publications,** including peer-reviewed articles, patents, reviews, and book chapters. His research leadership spans applications in **cancer diagnostics and therapy, human and animal health, hygiene, functional foods, agriculture, and sustainable technologies.**

Education

- Ph.D. Inorganic Chemistry – Indian Institute of Science, Bangalore (1984)
- Postdoctoral Fellow – University of Göttingen & Max Planck Institute, Germany (1985–87)
- Honorary Doctor of Science – Karnataka University (2009), SHUATS Allahabad (2012)
- B.S. Chemistry – Karnataka University (1977)
- Master of Science Education (MSc. Ed) – University of Mysore (1979)

Academic & Leadership Roles

- Curators' Distinguished Professor, University of Missouri (1990–present)
- Director, Institute of Green Nanotechnology (2013–present)
- Director, NIH-funded Cancer Nanotechnology Platform (2005–present)
- Honorary Director, Centre for Green Nanotechnology, University of Western Cape, South Africa
- Distinguished Visiting Professor, University of Johannesburg, South Africa (2024–present)
- Chairman, International Atomic Energy Agency (IAEA) Coordinated Research Program in Nano-Radiopharmaceuticals (2014–2021)

Global Recognition & Awards

- **2026:** Top Innovator of the Year in Healthcare – IAOTP
- **2025:** Honoured by PM Narendra Modi for Nano-Ayurvedic Medicine
- **2024:** Fulbright Global Specialist; Distinguished Visiting Professor, University of Johannesburg
- **2015:** Hevesy Medal Award – one of the highest international honors in nuclear sciences
- **2016:** Named "Person of the Year in Science" for connecting Ayurveda with nanomedicine

Elected Fellowships

- American Institute for Medical and Biological Engineering (AIMBE)
- American Association for the Advancement of Science (AAAS)
- National Academy of Inventors (FNAI)
- Royal Society of Chemistry (FRSC)
- Academy of Science, St. Louis

Research & Innovation

- **Inventor of Nano-Ayurvedic Medicine,** integrating Ayurveda with green nanotechnology for next-generation therapeutics
- Developed **biocompatible gold nanoparticles** for cancer imaging, diagnostics, and therapy
- Inventor of **"Katti Peptides"**—a novel class of trimeric molecular systems with applications in drug design and precision medicine
- Pioneered **green synthesis approaches** using phytochemicals for nano-enabled biomedical systems
- Led innovations across **radiopharmaceuticals, nanomedicine, and sustainable nanotechnology platforms**

Publications, Patents & Impact

- **400+ scientific contributions** (publications, patents, reviews, book chapters)
- **100+ patents and 200+ inventions**
- Technologies translated into **commercial healthcare applications,** with **40+ products deployed globally**
- Founder of the **Kattesh & Kavita Katti Endowed Research Fund,** supporting emerging researchers

Service & Global Outreach

Advisory roles with:

- National Institutes of Health (NIH)
- National Science Foundation (NSF)
- Cancer Prevention Research Institute of Texas (CPRIT)
- European Union scientific programs
- Indian Biotechnology Ministry and global science agencies
- Chairman, University of Missouri Patent & Copyright Committee
- Delivered **500+ invited lectures across 35+ countries**
- Featured in international media, scientific documentaries, and global outreach programs

Transformational Significance

- Dr. Katti's illustrious career stands as a benchmark for **scientific innovation with societal impact.** His pioneering work has not only created new domains such as **green nanotechnology and nano-Ayurvedic medicine,** but has also redefined the future of **precision healthcare, sustainable science, and global wellness systems.**
- His contributions continue to open new frontiers in **cancer therapy, translational medicine, and eco-friendly technological advancement,** positioning his work at the intersection of **science, sustainability, and human health**