

Kattesh Katti

Cancer researcher Dr. Kattesh Katti is globally recognized as the “Father of Green Nanotechnology.”

Katti detects and treats cancer using gold nanoparticles. With MU Research Reactor (MURR®) scientists, he developed over 85 cancer-targeting nanoparticles and devised methods to develop gold nanoparticles without toxic chemicals.

Katti pioneered the application of green nanotechnology to India’s 5,000-year-old Ayurvedic medicine system, aimed at scientifically validating holistic treatments. His new modality of “Nano-Ayurvedic Medicine” was licensed to Dhanvantri Nano Ayushadi (DNA), an Indian company bringing Katti’s discoveries to market with several cancer therapeutic and antibiotic products already available. In 2019, the U.S. Patent and Trademark Office approved the term Nano-Ayurvedic Medicine to describe medical products.

Among numerous honors, Katti received the international Hevesy Medal Award for achievements in applied nuclear chemistry and radiochemistry, India’s “Person of the Year in Science” for his contributions in green nanotechnology and MU’s prestigious 50th Faculty–Alumni Award. For his many innovations, including discovery of a peptide group now referred to as “Katti Peptides,” he was elected into the National Academy of Inventors.

Dr. Kattesh Katti is Curators Distinguished Professor of Radiology, Physics and Bioengineering with appointments in medicine, engineering, and arts and science. He is a MURR® senior research scientist, directs MU’s Institute of Green Nanotechnology and Cancer Nanotechnology Platform and represents the U.S. in the United Nations International Atomic Energy Agency’s nanomedicine/nano-radiopharmaceuticals research missions.

