

Dr. Kattesh V. Katti MSc.Ed, PhD, DSc, FRSC
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Kattesh V. Katti was born in Dharwad, Karnataka State, India. He attended Karnatak University for his BS (1977) in Chemistry, Physics and Mathematics and completed Masters in Science Education in Chemistry from the NCERT's Regional College of Education, Mysore, India (1979). He obtained his Ph.D in 1984 from the Indian Institute of Science, Bangalore, India, working with Professor S.S.Krishnamurthy in monomeric and polymeric phosphazenes. In 1985, Kattesh was awarded the internationally prestigious fellowship from the Alexander von Humboldt foundation Germany to work with Professor Herbert Roesky at the University of Gottingen, Germany (1985 -1987). Kattesh is currently a Professor in Radiology with joint appointments as Professor of Physics and Senior Research Scientist at the University of Missouri Research Reactor. In March 2008, Kattesh was awarded the Margaret Proctor Mulligan Endowed professor of Medical Research for his contributions in cancer research. Kattesh is the Director of the NCI-funded Cancer Nanotechnology Platform and founding Director of the Nanoparticle Production Core Facility. Kattesh has pioneered the fundamental science toward the design and applications of new hydroxymethyl phosphine chemical frameworks and ligand architectures to stabilize and engineer metals/radiometals for materials science, biomedical and catalytic applications. His discoveries on the development of biocompatible gold and silver nanoparticles for applications in nanomedicine has won him world wide acclaims. His latest work on the development of hybrid nanoparticles has provided impetus for their utility as X ray contrast agents for CT imaging, in ultrasound imaging and as therapeutic probes in the treatment of cancer. He was recently awarded a Cancer Nanotechnology grant from the National Cancer Institute to establish and direct the Cancer Nanotechnology Platform at the University of Missouri with 12 other interdisciplinary faculty.

In over 25 year's of research work spanning the areas of Chemistry, Physics, Materials Science, Biomedicine and Nanotechnology, Dr. Katti has championed the development of new scientific approaches to minimize the risks of Global Catastrophic Incidents. Dr. Katti has attained global recognition for his pioneering research on 'Green Nanotechnology' as it relates to the development of biocompatible gold and silver nanoparticles. His latest discovery which describes the role of plants and plant species for the production of nanoparticles is directly related to the creation of an important symbiosis between green nanotechnology and nature. This discovery is cited as the editor's choice in the October 2008 Issue of the journal of **SCIENCE (Editors' Choice SCIENCE: Volume 322, Number 5899, Issue of 10 October 2008; ©2008 by The American Association for the Advancement of Science)**.

Dr. Katti has received numerous national and international awards. **On January 21 2009**, Dr. Katti, was bestowed with the highly coveted Doctor of Science (**DSc**) Honoris Causa by Karnataka University, India, in recognition of his contributions to

nanoscience, nanomedicine, green nanotechnology and its application to medical and environmental research.

On September 7, 2008, Dr. Katti, was recognized by *rt Image* magazine as one of the **25 most influential people in molecular imaging in the world** for his discovery of the production of biocompatible gold nanoparticles through 'Green Nanotechnology'.

On March 4 2008, Dr. Katti has been bestowed with the 'Outstanding Missourian Award' by the Missouri House of Representatives. Taken from the award literature: "**The Missourian Award is an acknowledgement of the most accomplished citizens of the state of Missouri** (<http://missourianaward.org/>)

In 2007, Dr. Katti was awarded the coveted **2007 Outstanding St. Louis Scientist Fellows Award** by the Academy of Science of St. Louis which is the most prestigious and oldest science Academies of the world. **The Academy's literature called it "a rare feat to be distinguished in Chemistry, Physics, materials science and Biomedicine—all of these fields simultaneously" and praised Katti's discoveries in the development of gold and silver nanoparticles for applications in nanomedicine. In 2006, Dr. Katti was awarded the 2006 Gauss Professorship Award** from the Academy of Sciences, Gottingen, Germany. He is the fourth US scientist to receive this highly prestigious international award.

Dr. Katti's Nanomedicine research has been cited by the **President of India** in his Inaugural Speech at the Global Nanoscience Initiatives on March 16, 2006 in New Delhi, India: