



**KATTESH V. KATTI, MSc.ED, PH.D, DSc, FRSC**  
<http://web.missouri.edu/~kattik/katti/katti>

Professor Kattesh V. Katti is internationally recognized as a leader in the interconnecting fields of—chemistry, radiopharmaceutical sciences, nanotechnology/green nanotechnology and nanomedicine—for biomedical applications, specifically for molecular imaging and therapy of living subjects. The impact of Dr. Katti’s work is widespread, as his pioneering discoveries and strategies, originally developed in his laboratory, in bioconjugate chemistry, Nanomedicine and green nanotechnological tools, are used in many laboratories, industries and hospitals around the world. His contributions in nano and green nanotechnologies have already created a transformative progress in nanomedicine by aiding molecular imaging to help diagnose and manage therapy—all at the cellular levels. Dr. Katti’s ground breaking discoveries in green nanotechnology, where he has demonstrated that biocompatible nanoparticles can be produced without the intervention of any toxic chemicals, through phytochemicals of high antioxidant capacities and tumor receptor specificities have created a new generation of molecular imaging and therapeutic nanoceuticals. His approach to green nanotechnology has furthered the scope of holistic and integrative medicine with implications in modulating signaling pathways, allowing optimization of therapies targeted to tumor cells/regions, without causing adverse toxic effects to normal cells. These original discoveries are expected to have a major impact on how molecular imaging and therapies will eventually be individualized to allow their greater success through theranostic approaches using radioactive nanoparticles, photothermal therapy using targeted nanoparticles and novel therapies involving phytochemicals. Myriad of such approaches developed by Dr. Katti are already impacting clinical translation through comparative oncology in realistic ways as new drugs are being validated for their efficacy in imaging and therapy using tumor bearing dogs, where the disease mimics human conditions. In recognition of his original contributions, Dr. Katti has been awarded a number of international awards and citations which include: **one of the ‘25 Most Influential Scientists In Molecular Imaging in the World’ award by RT Image, the ‘Father of Green Nanotechnology’ citation by the Nobel Prize Winner Norman Borlaug, Gauss Professorship—Hall of Fame—from the Gottingen Academy of Sciences, ‘Outstanding Scientists Fellows’ award and induction as a Fellow of the Academy of Science, St Louis—one of the oldest scientific academies of the world and many more.** In 2013, Dr. Katti was elected as a fellow of the American Association for the Advancement of Science with a citation “for distinguished contributions encompassing nanoscale chemistry, particularly for ground breaking discoveries enabling application of nanotechnology concepts for biomedical applications”. His unprecedented discovery of the production of tumor specific gold nanoparticles through 100% green processes have been cited as the Editor’s choice in Nature, Future Medicine, in Science (AAAS), in Popular Science, by the Discovery Channel and have been highlighted in scientific/medical programs of the British Broadcasting Corporation (BBC, London).

### **International and National Recognitions/Awards:**

- **2014:** An institute has been named after his name as 'Kattesh Katti Institute of Green Nanotechnology and Agri Nanotechnology:  
[http://en.wikipedia.org/wiki/Sam\\_Higginbottom\\_Institute\\_of\\_Agriculture,\\_Technology\\_and\\_Sciences](http://en.wikipedia.org/wiki/Sam_Higginbottom_Institute_of_Agriculture,_Technology_and_Sciences);
- **2013: Selected as one of the Seven Best Nanomedicine Scientists in the world by HemOnc Today—A highly reputed journal of Hematology and Oncology in the world;**
- **2013:** A Genius In Science—Citation by Corporate India;
- **2012:** Elected as a Fellow of the American Association for the Advancement of Science (AAAS);
- **2012:** Bestowed with the Doctor of Science (DSC) award from the Sam Higginbottom Institute of Agriculture, Technology and Sciences (SHIATS);
- **2011: Inducted as the 'Fellow of The Academy of Science', St. Louis. St. Louis Academy of Science** is the most prestigious and oldest science Academies of the world established in 1856. Nobel Prize winner: **William Knowles** is the former recipient of this coveted award;
- **One of '25 Most Influential Scientist in Molecular Imaging in the World'** award by rt image; Former awardees include: Elias Zerhouni, Former Director of National Institutes of Health (2003); Henry N. Wagner Jr., recognized as the Father of Nuclear Medicine (2004); and Barry B. Goldberg, pioneer of ultrasound (2007);
- **2011:** Presidential Economic Development Award: The President's Awards are the highest honor bestowed for excellence among the university's four mission areas of teaching, research, service, and economic development: <http://coas.missouri.edu/news/2011/umawards.shtml>;
- **'Father of Green Nanotechnology' Citation from the Nobel Prize Winner Dr. Norman Borlaug:** <http://server4b.pressmart.net/planetearth//index.aspx?issue=issue24&page=25>;
- **Frost and Sullivan Citation:** Dr. Katti's Green Nanotechnology discovery on the production of Gold Nanoparticles using Soy beans has been cited by the Frost and Sullivan in their High Tech Materials Alert within the Technical Insights Section;
- Green Nanotechnology discovery of Cinnamon-Phytochemicals mediated production of gold nanoparticles has been selected as **'ONE OF 10 BEST INVENTIONS OF 2010'**: <http://www.bioresearchonline.com/article.mvc/MU-Scientists-Find-Cinnamon-Can-Replace-0001>;
- **'Outstanding Missourian Award'** by the Governor of the State of Missouri & House of Representatives; Dr. Katti is the first immigrant American to receive this coveted state level highest honor from the Governor of the State of Missouri;
- Fellow of the Royal Society of Chemistry (FRSC), London;
- Alexander von Humboldt Fellow from Germany;
- Distinguished Curators Professorship Award by the Curators of the University of Missouri—The highest Academic Honor from one of the largest Universities in the US;
- Margaret Proctor Mulligan Distinguished Endowed Chair Professorship in Cancer Research at the University of Missouri Medical School.

Professor Katti has delivered over 350 Plenary/Keynote Inaugural and invited lectures in national international meetings in over 30 countries.