

## **Technology and Innovation promises new focus on academic invention and translational research**

EurekAlert

The inaugural issue of the newly-renamed journal, *Technology and Innovation – Proceedings of the National Academy of Inventors*, makes its debut with new editorship, a new editorial board, and a new focus on innovation while honoring academic invention. The National Academy of Inventors, founded at the University of South Florida (USF), edits the re-vamped journal with a plan to cover applied advances in translational science and technology. The editorial board is comprised of both NAI members and non-members.

"Translational technology is more important than ever," said journal co-editor Howard J. Federoff, MD, PhD, executive vice president for health sciences, and executive dean of the Georgetown University School of Medicine in Washington, D.C. "It is the engine that will drive 21st century economies. The thousands of academic inventors on campuses and in laboratories around the globe are coming up with scientific and technology breakthroughs that will aid us in everything from saving lives, to creating jobs, to making the world safer, more productive and with a sustainable future."

A patent is the mark of a "true inventor," said Dr. Federoff, and patents on new technology are key to a better world.

According to journal co-editor Paul R. Sanberg, PhD, DSc, senior associate vice president for research and innovation at the University of South Florida, and founder and president of the National Academy of Inventors, the re-vamped journal will solicit research articles, review articles, commentaries, discussions (including editorials and letters to the editors), patent reviews and book reviews.

"All contributions will be peer reviewed and contributors may be NAI members or nonmembers," noted Dr. Sanberg. "Contributions will span descriptions of advances in translational science and technology, critical assessments, the economics and policy issues related to intellectual property, and articles on the historical, social and ethical aspects of science, medicine or engineering written for a science community."

Articles appearing in the inaugural issue of *Technology and Innovation* include: innovations in the use of biomaterials for treating brain diseases; creating customer value through innovation; ethics research for emerging technologies; a discussion of the *Bilski v. Kappos* patent case; nanosystems utilizing 3-dimensional integration; and removing pharmaceuticals from wastewater.

- "Innovation is critical to the competitiveness of any organization and its

survival, as well as critical to our nation," writes Len Polizzotto in "Creating Consumer Values Through Innovation." He discusses the principles and drivers of innovation and examples of how Draper Laboratory leveraged innovation in partnering with Progress Energy Florida.

- In "Encouraging the Art of Medicine - The University of South Florida's Brief to the United States Supreme Court in *Bilski v. Kappos*," authors Jeff Lloyd and Joshua Brown discuss this important case, recently decided by the U.S. Supreme Court.
- An "ethics research consortium for emerging technologies" is needed for a variety of reasons, including the management of public discourse on emerging technologies says Cesar V. Borlongan, et al. As an example, a stem cell ethics consortium is needed to evaluate issues as well as provide oversight and regulation.
- In "Innovations in the Use of Biomaterials for Treating Brain Disease," authors Emerich and Orive review the state-of-the-art in the use of programmable biomaterials for brain repair, employing them as nano-sized vehicles to deliver therapeutic proteins to regenerate and rebuild damaged neural pathways to treat a variety of neurological diseases.
- In "Nanosystems Utilizing Three Dimensional Integration and Gas Dielectrics for Enhanced System Performance," authors Wade and Gutman introduce the concept of utilizing 3D integration as an emerging technology that "vertically stacks and interconnects multiple materials, technologies and functional components to form highly integrated micro/nano systems."
- Authors Chang, Martin and Small evaluate the use of model compounds to study removal of pharmaceuticals from wastewater using a commercially available material, and discuss subjecting drugs and drug models to column chromatography for removal by ion encapsulation. They evaluate successful and unsuccessful methods.

"Owing to the broad nature of the applied sciences, our authors are guided by the interests of our readers, who are likely to be knowledgeable scholars," concluded Dr. Federoff.

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