MEDIA RELEASE

IBN Executive Director Professor Jackie Y. Ying Elected Fellow of the American Institute for Medical and Biological Engineering

Singapore, March 17, 2015 – Professor Jackie Y. Ying, Executive Director of the Institute of Bioengineering and Nanotechnology (IBN) of A*STAR has been elected into the American Institute for Medical and Biological Engineering (AIMBE)’s College of Fellows. AIMBE Fellows are elites in the fields of medical and biological engineering. Prof Ying was nominated by her peers for her outstanding contributions to research and development of nanomaterials and nanosystems for biomedical application.

“I am honored to be elected as a Fellow of the American Institute for Medical and Biological Engineering. Biomedical research is an exciting and important research field that can improve our lives for the better. Along with my colleagues at IBN, we hope to develop new ideas and ways to solve current healthcare challenges.”

Prof. Ying’s research is interdisciplinary in nature, with a theme in the synthesis of advanced nanostructured materials for biomaterial applications. Her laboratory has been responsible for several novel wet-chemical and physical vapor synthesis approaches that create nanocomposites, nanoporous materials and nanodevices with unique size-
dependent characteristics. These new systems are designed for applications ranging from biosensors and diagnostics, targeted delivery of drugs and proteins, generation of biomimetic implants and tissue scaffolds, pharmaceuticals synthesis, to green chemistry and energy.

AIMBE is a non-profit organization headquartered in Washington, D.C., representing 50,000 individuals and the top 2% of medical and biological engineers. The most accomplished and distinguished engineering and medical school chairs, research directors, professors, innovators, and successful entrepreneurs, comprise the College of Fellows. Since 1991, AIMBE’s College of Fellows has led the way for technological growth and advancement in the fields of medical and biological engineering.

Prof. Ying was also elected a Fellow of the Royal Society of Chemistry (RSC) in November 2014. Based in U.K., RSC is the world’s leading chemistry community, advancing excellence in the chemical sciences with 49,000 members worldwide. Prof Ying was elected for her significant contributions to the chemical sciences. She was also recognized for her work on the editorial board of the RSC journal, *Biomaterials Science*.

Prof. Ying has authored over 330 articles, and presented over 400 invited lectures at international conferences. She has over 150 primary patents issued or pending, and has served on the Advisory Boards of 6 start-up companies and 2 venture capital funds. Prof Ying is the Editor-in-Chief of *Nano Today*, which has an impact factor of 18.432.

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**About the Institute of Bioengineering and Nanotechnology**

Established in 2003, the Institute of Bioengineering and Nanotechnology (IBN) is the world’s first bioengineering and nanotechnology research institute. IBN’s mission is to conduct multidisciplinary research across science, engineering, and medicine for breakthroughs to improve healthcare and quality of life.

IBN’s research activities are focused in the following areas:

- **Nanomedicine**, where functionalized polymers, hydrogels and biologics are developed as therapeutics and carriers for the controlled release and targeted delivery of therapeutics to diseased cells and organs.

- **Cell and Tissue Engineering**, where biomimicking materials, stem cell technology, microfluidic systems and bioimaging tools are combined to develop novel approaches to regenerative medicine and artificial organs.

- **Biodevices and Diagnostics**, which involve nanotechnology and microfabricated platforms for high-throughput biomarker and drug screening, automated biologics synthesis, and rapid disease diagnosis.
Green Chemistry and Energy, which encompass the green synthesis of chemicals and pharmaceuticals, catalytic conversion of biomass, utilization of carbon dioxide, and new nanocomposite materials for energy applications.

Scientific Impact
- More than 1,000 papers published in leading scientific journals
- Over 1,100 seminars and presentations at international conferences, including over 700 invited, keynote and plenary lectures
- Organized premier scientific meetings such as the International Conference on Bioengineering and Nanotechnology, Nano Today Conference, and the IBN International Symposium

Technological and Commercialization Impact
- 500 active patents and patent applications
- 86 licensed patents and patent applications
- 7 spin-off companies
- 140 active research collaborations with industrial, clinical and academic partners

Nurturing Future Research Talents
- Trained 106 PhD students
- More than 77,700 students and teachers from 290 local and overseas schools/universities have participated in IBN’s Youth Research Program
- Over 2,000 students and teachers have completed research attachments at IBN

For more information about IBN, please visit www.ibn.a-star.edu.sg.

About the Agency for Science, Technology and Research (A*STAR)

The Agency for Science, Technology and Research (A*STAR) is Singapore's lead public sector agency that fosters world-class scientific research and talent to drive economic growth and transform Singapore into a vibrant knowledge-based and innovation-driven economy.

In line with its mission-oriented mandate, A*STAR spearheads research and development in fields that are essential to growing Singapore's manufacturing sector and catalyzing new growth industries. A*STAR supports these economic clusters by providing intellectual, human and industrial capital to its partners in industry.

A*STAR oversees 18 biomedical sciences and physical sciences and engineering research entities, located in Biopolis and Fusionopolis, as well as their vicinity. These two R&D hubs house a bustling and diverse community of local and international research scientists and engineers from A*STAR’s research entities as well as a growing number of corporate laboratories.

For more information on A*STAR, please visit www.a-star.edu.sg.