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Major Diseases End Seen

Progress in manipulating the human genome will enthrall Engineers of all disciplines at IEEE MetroCon conference soon

DALLAS (July 31, 2017) – Editing the human genome at the atomic level will be a focus at the 30th annual IEEE MetroCon conference produced by Fort Worth chapter of the *Institute of Electrical and Electronics Engineers* [IEEE] with major patrons being Lockheed Martin and Oncor Electric Delivery.

"Genome editing will be used dramatically in the pharmaceutical field," says Dr. Jin Liu, Assistant Professor Department of Pharmaceutical Sciences at the University of North Texas Health Science Center – UNT System College of Pharmacy, "… ten to twenty years we will … conquer many diseases (with it)."

Dr. Liu's presentation is titled *Towards Drug Discovery Via the Computational Microscope.* **"**Drug discovery has reached its bottleneck," says Liu, "to bring a new drug to market, the average cost is $2.6 billion and it takes at least 10 years on average. Computer-aided methods have proved to significantly reduce the cost of drug discovery."

In this talk, Liu will present the computational efforts in her group to design drugs for neurological diseases, to bring genome editing technology towards gene therapy, and to develop a novel method to boost drug discovery and development with the help of artificial intelligence algorithms.

Dr. Liu previewed her work today on the ScienceNews Radio Network program, *Promise of Tomorrow with Colonel Mason.* The broadcast can now be heard webcast and archived for its world audience at PromiseOfTomorrow (dot) biz. "Molecular dynamics simulations serve as a powerful computational microscope in computer-aided drug discovery," Liu said on the program.

Dr. Jin Liu received her B.S. degree in Chemistry from Peking University in Beijing, China, and PhD degree in Computational Chemistry from Ohio State University. After completing postdoctoral training Liu worked at U.S. Army Medical Research and Materiel Command, University of Texas Southwestern Medical Center, and held faculty position at Southern Methodist University.

For 30 straight years IEEE has produced this one-day technology rich Conference. MetroCon will also feature advances in cyber security, software and systems engineering, biotechnologies, in addition to

computational intelligence, power and energy systems, plus other emerging technologies.

More information about MetroCon, conference registration, sponsoring/exhibiting at: www (dot) metrocon (dot) org/.