



## The 10th International Congress of Asian Society of Toxicology

### ● CV



**English Name** : Joshua Xu

**Current Position:**

Branch Chief, Research-to-Review Division of  
Bioinformatics and Biostatistics, National Center for  
Toxicological Research (NCTR)/US Food and Drug  
Administration (FDA), USA

**Education/Training:**

Texas A&M University, Ph.D. in Electrical Engineering, 1999

**Professional and Research Experience:**

2018-present, Branch Chief, US FDA/NCTR, Jefferson, Arkansas, USA  
 2012-2018, Mathematical Statistician, US FDA/NCTR, Jefferson, Arkansas, USA  
 2007-2012, Senior Bioinformatician, ICF International, Jefferson, Arkansas, USA  
 2000-2007, Software Engineer, Texas Center for Applied Technology, College Station,  
 Texas, USA

**Awards and Honors:**

FDA Chief Scientist Publication Award for Basic, Translational or Applied Science in 2022

**Selected Publications:**

1. IW Deveson, B Gong, K Lai, JS LoCoco, ..., **J Xu** (co-corresponding author).  
Evaluating the analytical validity of circulating tumor DNA sequencing assays for  
precision oncology. *Nature biotechnology*. 2021, 39 (9), 1115-1128
2. L Wu, R Huang, IV Tetko, Z Xia, **J Xu**, W Tong. Trade-off predictivity and  
explainability for machine-learning powered predictive toxicology: An in-depth  
investigation with Tox21 data sets. *Chemical research in toxicology*. 2021, 34 (2),  
541-549
3. **J Xu**, S Thakkar, B Gong, W Tong. The FDA's experience with emerging genomics  
technologies—past, present, and future. *The AAPS journal*. 2016, 18 (4), 814-818
4. C Wang, B Gong, PR Bushel, J Thierry-Mieg, D Thierry-Mieg, **J Xu**, et. al. The



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concordance between RNA-seq and microarray data depends on chemical treatment and transcript abundance. *Nature biotechnology*. 2014, 32 (9), 926-932

5. **J Xu**, R Kelly, G Zhou, et. al. SNPTrack<sup>TM</sup>: an integrated bioinformatics system for genetic association studies. *Human Genomics*. 2012, 6 (1), 1-3