



American Society for Quality ([www.asq.org](http://www.asq.org)) – Washington DC and Maryland Metro, Section 509 ([www.asq509.org](http://www.asq509.org))

Biomed/Biotech Special Interest Group (SIG) Meeting  
(<http://www.asq509.org/ht/d/sp/i/31557/pid/31557>)

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## “The Role of Bioinformatics – From Bench to Regulatory”

To be presented by

**Wenming Xiao, PhD**

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Principle Investigator

National Center for Toxicology Research (NCTR), US FDA

**Thursday, February 15, 2018**

**[\*\*New venue\*\*:** [CCACC, 9366 Gaither Rd. “1<sup>st</sup> Floor Music Room”](#),  
Gaithersburg, MD]

6:00 – 6:20 PM – Networking; Pizza/drink

6:20 – 8:30 PM – Program

8:30 – **8:40 PM** – Door-prizes drawing; Networking

Online Registration site: <http://www.asq509.org/ht/d/DoSurvey/i/35817>

**Open to Public –**

**\$5:** [non-ASQ members](#) to cover pizza/drink cost;

**Free:** ASQ members, current job-seekers, CCACC volunteers/employees/members, veterans, senior citizens, past speakers, US PHS Commissioned Corp officers, teachers, students, interns, residents, postdocs, FDA Commissioner’s Fellows, MJ-DC members, NTUAADC members, CAPA members, NTMUADC members, CKUAADC members, NTHUAADC members, NJTUAADC members, FAPAC members, CBA members, AAGEN members, NCARSQA members, OCA-DC members, AAMB members, ACAP members, DC Leaders Club members, BioTrain volunteers, and Tai-Chi classes students in Metropolitan DC.

**Location (\*\*New Venue\*\*):** [CCACC 9366 Gaither Rd. “1<sup>st</sup> Floor Music Room”](#),  
Gaithersburg, MD20877

**Registration Deadline:** Please register by **Thursday noon, February 15, 2018.**

**Question:** Please contact Dr. C.J. George Chang, Chair of Biomed/Biotech SIG, ASQ509;  
[gchang2008@yahoo.com](mailto:gchang2008@yahoo.com) or 240-793-8425 (cell).

**Driving directions: By Cars:** From I-270 (N or S bound): Take Exit 8 onto Shady Grove Dr. Drive toward east and turn left onto Gaither Rd. The building is on your left after passing a stop sign.  
**By Metro rail:** Exit at the Red Line Shady Grove Station.

## Summary

The role of bioinformatics has been evolving from simply doing text searching (sequence alignment), when it started, to offering a variety of functions to facilitate biological research and clinical applications. As a matter of fact, bioinformatics itself is becoming a new discipline of science in developing new algorithms, establishing comprehensive databases, and creating sophisticated workflow. Given the latest development of biotechnologies, such as microarray and next generation sequencing (NGS), bioinformatics is now a very critical component that, essentially, every research laboratory or clinical application depends on.

This talk is to use personal experiences in 20 years of bioinformatics career as an example to illustrate how bioinformatics would help research in cancer genomics and FDA regulatory decisions on NGS-related applications.

## Speaker's Bio: Wenming Xiao, PhD



Dr. Wenming Xiao had advanced training in biology and computer science in China and United States. He has over 20 years of experience in bioinformatics through his career in industry, academia, and government agencies. Dr. Xiao has numerous publications in peer-reviewed journals such as Nature, PNAS, and N. Engl. J. Med., and received the NIH Director Award in 2010 in recognition to his contributions to cancer biomarkers discovery. His work in

Lymphoma/Leukemia Molecular Profiling resulted in 20 gene biomarkers for Lymphoma Subtyping Test (LST), which is in Phase III global clinical validation trial, and a candidate drug, ibrutinib, which currently is in phase II clinical trial. Dr. Xiao is a **principle investigator** in Food and Drug Administration (FDA) and leads an international working group, including 170+ scientists, to establish reference materials, data sets, analysis pipelines, and quality metrics for cancer mutation detection with NGS technology.

This event is cosponsored by Chinese Culture and Community Service Center, Inc. (CCACC, [www.ccacc-dc.org](http://www.ccacc-dc.org)), NTU Alumni Association DC Chapter ([www.ntuaadc.org](http://www.ntuaadc.org)), and Chinese American Professional Association of Metropolitan Washington, DC ([www.capadc.org](http://www.capadc.org)).