



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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## “Bone Marrow Mesenchymal Stem Cells: Characterization and Therapies”

To be presented by

**Juliann G. Kiang, PhD**

([Juliann.kiang@usuhs.edu](mailto:Juliann.kiang@usuhs.edu))

Research Professor of Medicine

Radiation Combined Injury Program

Armed Forces Radiobiology Research Institute (AFRRI)

Uniformed Services University of the Health Sciences (USUHS)

**Thursday, February 18, 2016**

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

6:20 – 8:45 PM – Program

8:45 – 9:00 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, 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, CKUAADC members, CCACC volunteers/employees, FAPAC members, CBA members, AAGEN members, NCARSQA members, OCA-DC members, and current job-seekers

**Location:** Kelly’s Deli Conference Center, 7529 Standish Place, Rockville (Derwood, for GPS users), MD 20855

**Registration Deadline:** Please register by **Thursday noon, February, 18, 2016.**

**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 9A and exit from the FIRST right exit; turn left (east) onto Shady Grove Dr.; turn right (south) onto Rockville Pike (**Route 355**); turn left (east) onto East Gude Dr.; turn left (north) immediately onto Crabb’s Branch Dr.; turn left (west) immediately onto Standish Place. The first building on your right side is 7519 Standish Place; open parking). The venue is on the first floor of 7529 Building with its external entrance opposite to the left side of 7519 building main entrance. **By Metro trains:** Off from Red Line **Shady Grove**

**Station**, and take RideOn **Route 59 TOWARD ROCKVILLE** and get off from “**Calhoun Place**” stop. Standish Place is next to the Bus stop. Our venue is within 2 min of walking distance from the stop.

## Summary

Recent understanding in the cellular and molecular signaling activations on adult mesenchymal stem cells (MSCs) has provided new insights into their potential clinical applications, particularly for tissue repair and regeneration. This presentation focuses on these advances, specifically in the context of characterizing MSCs and self-renewal for tissue repair and recovery after diseases. Thus far, MSCs have been extensively characterized and shown mitigation and therapy on different diseases in human clinical cases and experimental animal models. MSC-based technologies for treating diseases alone or in combination with adjuvants are foreseeable.

Current challenges in MSC therapy are the need to overcome cell purity, bioengineering difficulties for tissue structures, optimization of MSC administration protocols, termination of MSC activation after repair and regeneration accomplished, and safety of long-term presence of MSCs. (Supported by NIH/NIAID YI-AI-5045-04 and AFRRRI RAB33529. The views expressed do not necessarily represent NIH, AFRRRI, USUHS, or US DoD.)

## Speaker's Bio: Juliann G. Kiang, PhD

Dr. Juliann G. Kiang completed her PhD and postdoctoral studies at the University of California at Berkeley. She is **Research Professor of Medicine** at USUHS and **Principal Investigator** at Armed Forces Radiobiology Research Institute (AFRRRI). She is the first to describe the skin-wound amplifies iNOS activation, cytokine concentrations, and sepsis after ionizing irradiation. Dr. Kiang identifies both ghrelin therapy and mesenchymal stem cell treatment improving wound healing and survival after radiation combined injury.

Dr. Kiang has published more than 150 papers in reputed journals and books and held patents. She is an **inventor** and serves as an **editorial member** of reputed journals. Among all awards, Juliann received the Research and Development Achievement Award from the US Department of Army. She is a **US DoD STEM Model** and a **member** of the Order of Military Medical Merit.

This Biomed/Biotech SIG event is cosponsored by the Monte Jade Science and Technology Association of Greater Washington ([www.MonteJadeDC.org](http://www.MonteJadeDC.org)) and NTU Alumni Association at DC ([www.ntuaadc.org](http://www.ntuaadc.org)).