



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

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

“Rethink the Science of Cancer – An Integrated 21st Century Research Conversation”

To be presented by

Henry Colburn Stevenson-Perez, MD

(henry.stevenson.perez@skmri.org)

Bruce H. Williams, DVM, DACVP

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Joseph F. Goodman, MD

Robert McCully, DVM

Murtha Cancer Center and Joint Pathology Center

Walter Reed National Military Medical Center, US Dept. of Defense

Thursday, September 22, 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, NTMUADC members, CKUAADC members, NTHUAADC members, CCACC volunteers/employees, FAPAC members, CBA members, AAGEN members, NCARSQA members, OCA-DC members, AAMB members, ACAP 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, September 22, 2016.**

Question: Please contact Dr. C.J. George Chang, Chair of Biomed/Biotech SIG, ASQ509; 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 This purely-scientific and highly-interactive seminar presentation begins with a lead-off open-ended question: “Given our recent research advances, what do we really know about the true nature of ‘cancer’ in 2016 and what more do we really want to know?”

This is becoming one of the most pressing questions of 21st Century clinical medicine. That is because the 20th Century Science Of Investigating “The Things” (the study of “static subject matter” and “material stuff”) has evolved into the 21st Century Science of Investigating “The things” (the study of “gerund-dynamics” and of “complex biological processes”). This renewed scientific attention to understanding the processes of cancer is also important because America’s Industrial 20th Century scientific mindset must now re-configure itself to perform brand-new 21st Century feats of science & medical discovery – that must be able to out-compete scientific offerings from all around the globe. The age of disruptive scientific breakthroughs has arrived in U.S. medicine, especially in the field of “cancer”.

At the heart of this seminar lies several disruptive questions and several unusual scientific experiments that have been conducted over the past 9 years at Walter Reed Hospital in Bethesda, Maryland, exploring the biology of intelligence in the cancer-patient setting. As our seminar participants progressively review the data from our highly-successful cancer immunotherapy experiments (analyzing the cancer-fighting intelligence of immune-system cells), we will also actively reconsider many of the fifty-year-old 20th Century scientific claims about “cancer” that continue to dominate the field. These biological ‘issue-areas’ include:

“What is the “3 Hits of Bad-Luck” Theory of Cancer, and is there any evidence to support it? How are exogenous entropic insults to normal DNA able to create the biological intelligence of “cancer”? Is “cancer” a rare catastrophic event, or is it possible that everyone has “cancer” all the time? Is anti-cancer immunity mainly a T-lymphocyte-driven process? What are the first-responder elements of immune-system intelligence that must be mastered – in order to develop an immune-prevention for cancer? What is the abscopal effect, and how can we harness this phenomenon in modern immunotherapy? Is “cancer” simply a random process? If not, then what is the evolutionary purpose of cancer?”

To the best of our knowledge, the 6 inter-related scientific questions above have not been investigated (as a whole) by the cancer research community to date; Certainly, these issues are not part of the Top 10 Cancer Research priorities that were recently announced by Vice-President Biden’s 2016 “Moonshot To Cure Cancer” team.

The presenters will share their new insights into the fundamental biology of cancer, and they also will invite questions and new ideas from the audience. This seminar is designed to inspire new research partnerships in this very-exciting field at this very exciting time. We will conclude by actively inviting each participant to critically assess the truth of our claims: Is our lead-off scientific question really that important in 2016? Could the remarkable clinical research results that have recently emerged be useful in re-framing America’s upcoming cancer research endeavors in 2016? Of course, we hope that the answer to both of these questions will be “yes”, as we also hope that many of the participants will consider actively entering this exciting brand-new field of scientific research for themselves.

[Note: The emerging evidence of the power of immune checkpoint inhibitors to provide very long-term relief for patients with highly-aggressive cancer has blossomed into a new 21st Century research agenda for understanding the nature of the same immune-system intelligence with regard to the prevention of cancer in normal individuals.](#)

Speaker's Bios:

Henry Colburn Stevenson-Perez, MD serves as a part-time **Attending Physician /**



Senior Research Investigator within the Murtha Cancer Center at the Walter Reed National Military Medical Center in Bethesda, MD. His life-long professional mission has been to discover new techniques for rapidly upgrading the intelligence of the immune system of cancer patients, so that these cells can become empowered to recognize and eliminate the cancer cells that threaten the life of each patient.

In addition, Dr. Stevenson-Perez serves as the **Director** of the non-profit Scientific Knowledge Management Research Institute (SKMRI) in Kensington, MD. The professional goal of this effort has been to discover new techniques for rapidly empowering average Americans to become effective innovators in the new 21st Century Global Science and Knowledge Economy. To this end, the SKMRI team conducts research on novel techniques & tools for rapidly empowering non-scientists, especially high-risk minority public school students, to rapidly master the tools for scientific-innovation in those economic spheres that shape their lives, particularly in modern medicine, technology & engineering (STEM). Since 2007, Dr. Stevenson-Perez and his SKMRI research colleagues have developed the novel Citizen Scientist Toolset, which has been demonstrated to measurably jumpstart professional levels of scientific intelligence in middle-school students, following just 15 hours of Citizen-Scientist Toolset Orientation and 30 days of Citizen-Scientist Toolset Immersion Training.

A graduate of Stanford Medical School, Dr. Stevenson-Perez is board-certified in Internal Medicine, Allergy/Immunology, and Medical Oncology. As a physician and cancer researcher, Dr. Stevenson-Perez has published nearly 150 papers and abstracts on his research regarding several new treatments for cancer, including the development of the very-first biological response modifiers (such as interferon and interleukin-2), trans-retinoic acid, immune checkpoint-inhibitors (anti-CTLA4 & anti-PD1), and the Activated Killer Monocyte (AKM) approach for stimulating first-responder immune-cells to treat peritoneal carcinomatosis. Dr. Stevenson-Perez also holds a graduate degree in Social Psychology from Stanford University in organizational management & social-network theory. This research field is currently blossoming into the creation of a brand-new reality TV show, that is entitled "Making It To The Top (MIT3)": This new form of TV entertainment documents the 9 years of successful Citizen-Scientist Toolset experimentation, that routinely produces inspiring "instant-ignition" upgrades in the scientific intelligence of a new generation of American youngsters -- that enjoy making contributions to our new Science Knowledge Economy.

Bruce H. Williams, DVM, DACVP Dr. Bruce Williams is the **Senior Pathologist** in the



Veterinary Pathology division at the Joint Pathology Center (formerly the "Armed Forces Institute of Pathology" (AFIP)). With over 25 years of experience in the areas of diagnostic and laboratory animal pathology, Dr. Williams is known around the world as the **CEO** of the Davis-Thompson Foundation (the largest organization promoting veterinary and comparative pathology worldwide), and director of over 100 courses in descriptive, gross, and lab animal pathology. He has published numerous articles on the pathology of various lab animal and domestic species, most notably of the domestic ferret, as well as book chapters on similar subjects. He is the **coordinator** and **editor** of the Wednesday Slide Conference, an annual slide conference of 60 years with over 120 participating institutions.

Joseph F. Goodman, MD is a military **Ear, Nose & Throat (ENT) surgeon**, currently serving at the Walter Reed National Military Medical Center. He received his medical degree from Michigan State University, and his ENT surgical training at George Washington University Hospital. He received head & neck oncology / microvascular reconstruction fellowship training at the University of Miami. Dr. Goodman presently serves as an **Assistant Professor of Surgery** (Otolaryngology – Head & Neck Surgery) at the Uniformed Services University of Health Sciences (USUHS) in Bethesda, MD. He also holds an academic appointment at the NIDCD/NIH, Bethesda, MD, serving as an **ENT Consultant**.



A recipient of numerous military awards for medical and non-medical leadership achievements, Dr. Goodman has published extensively on novel techniques and methodologies for improving the efficacy of surgical interventions for head & neck cancer, as well as about restorative surgeries for patients suffering from head & neck injuries/diseases. He is active in the following areas of clinical research: Head and Neck Oncology, Microvascular Reconstructive Surgery, Trans Oral Robotic Surgery (TORS), Trans Oral Laser Microsurgery (TLM), Thyroid and Parathyroid Surgery, Salivary Neoplasms, Voice Disorders, Dysphagia, and Craniofacial Trauma. Moreover, Dr. Goodman is an active leader in the effort to engage ENT surgical patients in their own recovery, as well as their own advocacy and mutual support. He is an active supporter of 'Support for People with Oral, Head and Neck Cancer (SPOHNC)', and he serves as a **coordinator** for an ENT Clinic patient support group at Walter Reed National Military Medical Center.

Robert McCully, DVM is an 89-year-old retired military **veterinary surgeon** and **pathologist**, who most recently performed research at the Armed Forces Institute of Pathology (AFIP – now, the DoD JPC). Dr. McCully has worked in many academic research capacities, most notably studying the effects of radiation in animal models, including studies on the role of radiation in producing malignancies. He also spent much of his professional career supporting international collaborative research programs in veterinary medicine, most notably in South Africa.



In 2015, Dr. McCully received a total uninvited professional assignment: To experience the pain and the horror of aggressive melanoma first-hand. Largely through scientific discoveries of his own making, Dr. McCully is now clinically disease-free, thanks to a combination of interventions to boost the cancer-fighting capacity of his own immune-system. Moreover, as a result of the careful systematic pathologic analysis conducted by Dr. McCully and his JPC colleagues (studying his own tumor samples), science is learning a great deal more about the complete biological platform that supports the growth of aggressive melanoma. In addition, cancer clinicians are also gaining valuable insights into the mechanisms by which modern cancer immunotherapies attack and dismantle melanoma tumors from this same JPC-sponsored research. In a parallel fashion, Dr. McCully has maintained elegant diaries on the day-to-day challenges and miseries of enduring aggressive melanoma as a patient, and he speaks eloquently on this topic to interested audiences. By speaking publicly about his own personal encounter with very-aggressive melanoma, and by revealing his unique cancer-insight discoveries, Dr. McCully provides inspiring testimony about the infinite options that all cancer patients may discover for overcoming the challenge of melanoma.

This event is cosponsored by NTU Alumni Association DC Chapter (www.ntuaadc.org), Chinese American Professional Association DC Chapter (www.capadc.org), and Association of Chinese American Physician Mid-Atlantic Chapter (ACAP-MAC).