



Alfred Ayala, Ph.D., M.S., M.A.

Dr. Alfred Ayala is presently Professor of Surgery (Research) and the Director of the Division of Surgical Research at RI Hospital/ Alpert School of Medicine at Brown University. The work his laboratory has done centers on developing a better understanding of what the mechanisms of severe traumatic shock, injury and/or sepsis are and what their impact is on the critically ill individual's immune response that contribute to increasing their susceptibility to subsequent infection and multiple organ failure. Excitingly, while working for years on defining numerous defects of components of innate/adaptive immune responsiveness caused by shock and/or sepsis (e.g., such as contributing to the identification of the critical roles cell death mechanisms play in these conditions and its role in injury/sepsis induced immune suppression), we have uncovered novel role(s) for a number of the cell-associated regulatory receptors (a.k.a., checkpoint proteins) of the B7-CD28 superfamily, e.g., PD-1, BTLA, VISTA, and their respective cell surface ligands, in this pathological process.

Dr. Ayala earned his *B.S.* at Bowling Green State University, OH (76), an *M.S.* in Biology (79) and Ph.D. in Regulatory Cell Biology at Cleveland State University, OH, (85). Following which he was a NIH *Post-doctoral fellow* in the Department of Microbiology & Public Health at Michigan State University (MSU), MI (85-88), then *Research Associate* in the MSU Department of Surgery (88-89) and, subsequently, obtained his 1st faculty positions in the Department of Surgery at MSU prior to being recruited to RI Hospital/ Brown University, Providence, RI (96). Alfred's professional activities include service as both a standing member of the NIH SAT & LCMI-study sections, numerous ad hoc NIH study panels/site visit teams, VA-DoD Merit Review Board and on the Shriners Hospitals'-Research Advisory Board for the last 11 yrs. He has been recognized by his peers through election as an *American Association for the Advancement of Science "Fellow"*; election to President, Treasurer & Scientific Program chair of the Shock Society; selected as Recorder/Executive council member of the Surgical Infection Society, section editor for *Jl*, and the Society of Leukocyte Biology (SLB) council member, *JLB* editorial board as well as Co-chair for the SLB 2013 meeting. Dr. Ayala is a recipient of a *NIH-NIGMS MIRA-ESI*, the Shock Society *Scientific Achievement* and *Distinguished Service Awards*, and served as a consultant for the '*NIH/NIGMS Working Group on Sepsis*'. He has over 300 published manuscripts/ review articles to his credit and has been continuously funded by the NIH since 1991. He is also a training faculty member of 3 Brown University-Graduate Programs, the IMSD program, the Leadership Alliance/T35-undergraduate program and is an adjunct Professor in the University of RI graduate program. This has culminated in the great privilege/pleasure of collaborating with many wonderful folks, ranging from undergraduates, medical students, surgical residents, post-doctoral fellows to junior faculty, to advance the science we have done during his time at Brown and MSU.