

### **A. Joseph Tector, MD, PhD**

Dr. Tector is a clinically active transplant surgeon and the Director of the transplantation research program at the Miami Transplant Institute. His laboratory has created multiple xenoantigen deletion pigs using CRISPR/Cas technology. His team created the first three xenoantigen deletion pig that has a favorable crossmatch to many waitlisted patients. His lab has also developed methods and tools to accurately assess pretransplant xenoreactive antibody levels in patients. Dr. Tector and Andrew Adams have shown that genome edited pig kidneys can provide life supporting function in appropriately crossmatched non-human primates for more than 300 days. His lab continues to work out the rules of histocompatibility as they apply to clinical xenotransplantation. The other interest that continues in his lab is the identification of additional xenoantigens that can be targeted in donor pigs to create a negative crossmatch pig for as many waitlisted patients as is possible.