



Prof. Dr. Burçin EKSER

Prof. Dr. Burçin Ekser is a surgeon specializing in organ transplantation, immunology, and particularly xenotransplantation (cross-species organ transplantation). After completing his medical education in Türkiye and Italy, Dr. Ekser continued his career in the United States, where he has become an internationally recognized figure in transplant science by serving in high-level clinical and research-oriented programs. Following his medical education, he began his residency and specialized training in transplant surgery in the U.S., deepening his expertise in transplantation surgery and immunological mechanisms. In his academic work, Dr. Ekser has focused specifically on developing the systems closest to clinical application for pig-to-human organ transplantation. He has made significant contributions in areas such as preventing immune rejection, genetic modification of donor animals, determining appropriate immunosuppressive treatment protocols, and ensuring the continuity of organ function posttransplantation. Dr. Ekser's research addresses the genetic, immunological, and surgical requirements necessary for xenotransplantation to become a clinical reality within a holistic framework. He has produced pioneering publications on increasing the compatibility of porcine organs with human physiology, reducing vascular complications post-transplantation, and controlling rejection at the molecular level. These studies hold a significant place not only in academic literature but also in the global health agenda among efforts to find solutions for organ failure. Within the scope of his clinical responsibilities, Dr. Ekser has participated in major surgical operations such as kidney and liver transplantation and has played an active role in processes including post-transplant care, management of immunosuppressive protocols, and coordination of multidisciplinary transplant teams. By bringing his experience in xenotransplantation research to clinical practice, he contributes to the integration of innovative approaches into patient care. Working in close collaboration with international scientific communities, Dr. Ekser has served in advanced research centres in the field of xenotransplantation, participated in multinational projects, and acted as a reviewer for numerous prestigious journals. His involvement as a researcher or clinician in some of the most significant xenotransplantation programs in the U.S. has established him as one of the leading experts in this field. Dr. Ekser's scientific publications also encompass the ethical, biosafety, and clinical feasibility dimensions of xenotransplantation. He offers a comprehensive perspective on how

cross-species transplantation can be made safe and applicable to alleviate organ shortages and sustainably expand the field of transplantation. This approach, which integrates developments in genetic engineering, immunological tolerance, and surgical techniques, is considered among the works shaping the future of the field. Today, Dr. Burçin Ekser continues his clinical and academic work in organ transplantation and xenotransplantation, offering significant contributions to global knowledge through innovative research, multidisciplinary collaborations, and surgical expertise.