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Single-Cell RNA-Seq and Proteomics in ANCA-Associated RPGN and MGRS: A Five-Year Multi-Center Outcome Review

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Steroid-resistant nephrotic syndrome (SRNS) in children often progresses to chronic kidney disease (CKD). While genetic testing and kidney biopsy are essential, they sometimes fail to detect molecular mechanisms underlying treatment resistance. Urine-derived single-cell transcriptomics and plasma proteomic biomarkers have emerged as innovative tools to refine risk stratification, guide therapy, and minimize complications. Consortia like PodoNet and NEPTUNE report over 40% of SRNS cases progress to end-stage renal disease (ESRD) within a decade, underscoring the need for improved diagnostic approaches.

Biography

Hassan Tariq is a fourth-year medical student at Punjab Medical College, Faisalabad, Pakistan. As a prolific author, he has written seven books, including comprehensive reviews on neurosurgery and cutting-edge advancements in robotic surgeries. Hassan has a remarkable record of submitting over 30 abstracts to prominent international medical conferences, reflecting his diverse interests in medicine.

His research portfolio includes conducting numerous systematic and literature reviews, demonstrating his dedication to evidence-based medicine. Hassan is also skilled in developing scientific simulations, which provide innovative tools for understanding complex medical concepts. Furthermore, he is proficient in multiple programming languages, showcasing his ability to bridge the gap between medicine and technology.

Hassan's contributions reflect his commitment to advancing medical science and his passion for integrating technology and research to improve healthcare outcomes on a global scale..

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