

Sanjeev Gupta, M.D., M.B.B.S.*Professor, Medicine (Gastroenterology and Liver Diseases), Einstein**Professor, Pathology, Einstein**The Eleazar and Feige Reicher Chair in Translational Medicine, Einstein**Attending Physician, Medicine, Montefiore Medical Center*

Dr. Sanjeev Gupta is a world leader in liver-directed cell and gene therapy and stem cell biology. He graduated from Sardar Patel Medical College, University of Rajasthan, and trained in internal medicine at the Postgraduate Institute for Medical Education & Research in Chandigarh, India. He then trained in gastroenterology at Hammersmith Hospital and the Royal Postgraduate Medical School, University of London, and in hepatology at the University of Southern California School of Medicine. He joined the faculty of Einstein in 1987, became a full professor in 1998, and now holds the Eleazar and Feige Reicher Chair in Translational Medicine.

The scope of Dr. Gupta's cell therapy efforts is wide-ranging, including genetic diseases, blood disorders, liver failure and chronic hepatitis, and is aimed now at clinical trials. Dr. Gupta has numerous fundamental discoveries to his credit, including mechanisms for how the liver can be repopulated with transplanted cells; correction of diseases by cell and gene therapy; the therapeutic potential of stem cells; and pathophysiological mechanisms in genetic and acquired diseases. His work contributed in the 1990s to the first clinical trial in familial hypercholesterolemia of cell/gene therapy. Subsequently, Dr. Gupta established in an animal model how Wilson's disease may be cured by cell therapy. Wilson's disease is a genetic condition involving excessive accumulation of copper in the liver, brain and other organs. More recently, Dr. Gupta established that hemophilia A can be cured by transplantation of liver sinusoidal endothelial cells, or by replacement of other cell types. He has identified new mechanisms by which human stem cells can be manipulated to generate liver cells, and defined fundamental ways by which gene expression is regulated in stem cells during differentiation. He has been continuously funded by the National Institutes of Health (NIH) for 23 years and his research has been published widely, including in *Science*, *Nature*, *PNAS*, *JCI*, *JBC*, *Gastroenterology*, and *Hepatology*. He has served on several journals as an editorial board member.

Dr. Gupta's trainees include more than 30 faculty members, including nine full professors or associate professors in medical schools. He serves as an expert for the NIH, the Department of Veterans' Affairs, the Department of Defense, Wellcome Trust, and various international bodies. Dr. Gupta has received numerous academic awards, lectured globally at major professional organizations and served as a visiting professor at leading universities worldwide. He has more than 400 peer-reviewed papers, reviews, book chapters and editorials.