

**Purity matters more than the size in the nanotechnology – a 600% increase in the binding of bone proteins to the coating biomaterials for the orthopedic and dental implants as compared to the competitors' products**

Lorton, Virginia, September 22, 2006: The recent studies on nanotechnology-derived coating materials for orthopedic and dental implants provide very surprising results. Dr. C. P. Singh, President and CEO of Nano Interface Technology, Inc. (NITI) says, "NITI's ultra-pure coating biomaterial provides 600% increase in binding to the bone proteins as compared to competitors' products having same sizes according to the evaluation by the researchers at the Virginia Commonwealth University. This result provides direct evidence for the need of purity in the coating nanomaterials. This will lead to quick recovery of the patients and longer life span of hip, knee and dental implants. For the last 20 years, the lifespan of orthopedic and dental implants has been 10-12 years with revision rate of 17%. The orthopedic surgeons have provided great improvement in the operating procedures of the hip and knee implants. But there is no increase in the lifespan of hip or knee implants because quality of coatings of implants has not improved over the decades. The current technology provides 30% - 66% pure coatings on the implants. The ultra-pure (99+%) coatings developed by the NITI is expected to increase the lifespan of these implants from 12 years to 20 years resulting in reduced revision rate. It will also reduce the need of high strength painkillers after surgery. Since these biomaterials is currently used in coatings of implants, therefore implants developed using NITI's purer biomaterials will easily get the FDA approval. It will be widely accepted by the surgeons because the cost of coated implants will be lower than the existing coated implants. NITI's product provides similar financial opportunity like stent market. The Boston Scientific captured 70% of stent market due to the better coating of drugs on the stent."