



### **Short CV: Shoukhrat Mitalipov, Ph.D.**

Shoukhrat Mitalipov, Ph.D., directs the OHSU Center for Embryonic and Gene Therapy, where he is focused on developing treatments to prevent the transmission of genetic disease from parent to child. Mitalipov is also a professor of biomedical engineering and obstetrics, gynecology and pediatrics in the OHSU School of Medicine with appointments in the Oregon National Primate Research Center and Knight Cardiovascular Institute.

Mitalipov earned his Ph.D. in 1994 from the Research Center for Medical Genetics in Moscow. He arrived at OHSU in 1998 after conducting postdoctoral research in stem cell and developmental biology at Utah State University.

Dr. Mitalipov's research is focused on investigating novel germline gene therapy approaches for the treatment of inherited human diseases. His team pioneered the concept of mitochondrial replacement therapy to prevent transmission of mtDNA defects from mothers to children. More recently, Dr. Mitalipov and his colleagues demonstrated that gene-editing tools can be effectively used to repair heterozygous nDNA mutations in human embryos. The focus of the study was the gene mutation that causes hypertrophic cardiomyopathy, a common inherited condition that can cause sudden cardiac death and heart failure.