





She got her medical degree in India where she specialized in infectious diseases. Her education and training have given her a well-rounded perspective of both clinical and laboratory investigation of immune responses in infectious diseases. She worked with both *in vitro* and *in vivo* models of these diseases and gained expertise in cell biology, immunology, microbiology and molecular biology. At the University of the Sciences in Philadelphia from 2000-2013, she taught experimental and fundamental Microbiology and Immunology to Biology and D. Pharm students. Here, she worked with undergraduate and graduate students in collaboration with colleagues working in fields as diverse as inflammation, bioengineering of organisms, cellular stress responses, DNA damage responses, development of oral tolerance and natural products.

Her ongoing research focus is on harnessing the immunomodulatory capability of non-thermal plasma for applications in cancer treatment, wound healing, skin diseases, viral diseases and vaccine delivery. She works closely with tumor immunologists, surgeons, dermatologists, virologists and immunologists, and collaborates with plasma scientists and engineers all across the world.

She was also active in developing the use of plasma activated water for agriculture, in addressing microbial contamination of food during all stages of food processing and in identifying that plasma-enriched irrigation water with increased plant growth and fecundity thereby reducing the quantity of irrigation required for sustained growth.