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S. Ermolaeva was graduated from the Faculty of Physical and Chemical Biology of Moscow Institute of Physics and Technology in 1991. She got Ph.D. in Microbiology and Genetics at Gamaleya Center in 1995. In 1999-2000, S. Ermolaeva hold a postdoctoral position at Complutense University of Madrid, Spain. In 2002, she was supported by a NATO long-term fellowship for one-year stay at University of Leon, Spain. Since 2005, S. Ermolaeva has head a Lab of Ecology of Pathogenic Bacteria at Gamaleya Center. Ermolaeva's Lab deals with studies of virulence, molecular biology and ecology of soil-borne pathogens and developing new methods for their killing. Since 2008, the Lab has started research in the field of Plasma Medicine focusing on bactericidal and wound-healing properties of non-thermal plasmas. In 2014, Prof. Ermolaeva has been elected to BoD of International Society on Plasma Medicine.