

## Dr. Basem Ahmed

Item	Home	Work
Name	Basem Mohamed Abdelhamid Ahmed	
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Main Interest		Viral vaccines, novel diagnostic approaches, virus evolution
Recent Research Project		<ol style="list-style-type: none"><li>1. Suitcase laboratory for rapid and sensitive detection of SARS-CoV-2 in point-of-care settings.</li><li>2. Preparation, Characterization and Evaluation of Different Nanoparticle-Encapsulated DNA Vaccines against Avian Orthoavulavirus 1 in chickens.</li><li>3. Preparation and experimental evaluation of an Equine influenza H3N8 vaccine based on rDNA technology.</li><li>4. Novel Self-biocontained Plant-based Strategy for Overexpression of Biologically Active Equine H3N8 Influenza Virus Proteins.</li><li>5. Development of a competitive internal positive control (CIPC) to improve the Avian influenza H5N1 rapid detection molecular assay.</li><li>6. Preparation of a new vaccine to avian Influenza virus.</li></ol>

Recent Photo



### Biograph

Dr. Basem is currently working as an associate professor of virology and is the interim chairman of the department of virology at the Faculty of Veterinary Medicine, Cairo University, Egypt. Dr. Basem received his

PhD in virology from Cairo University in 2016. The main scope of his PhD was the use of gene vaccines to improve the efficacy of inactivated H5N1 vaccines in a prime-boost concept hence advancing the control strategies of H5 HPAI in poultry. During his master and PhD, he used the same gene vaccine technology to provide a DNA vaccine against H3N8 equine influenza and shared in the update to the new Baculovirus-insect cell system (BICS) technology in his university. Dr. Basem had also trained on the manipulation of EHV-1 genome in the institute of virology, free University of Berlin, Germany. Dr. Basem has contributed to 6 research grants (2 as PI, and 1 as Co-PI) funded by foundations in Egypt and in Germany. He shared in conducting several studies in the fields of molecular virology, immunology, viral diagnostics, and vaccinology that were reflected in the form of scientific publications (34), presentations in national and international conferences/seminars (12), and multiple GenBank submissions records. The current research projects of Dr. Basem are focusing on 1) studying the genetic makeup of the prevalent Egyptian strains of animal, poultry, and aquaculture viruses; 2) development of improved viral diagnostic tools; 3) the use of modern technologies for constructing and evaluating novel vaccine candidates.