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| **Curriculum Vitae** |
| ***personal Information*** |
| **Name** | Hanaa Salah |  |
| **Title** | Lecturer, Department of Zoonoses, Faculty of Veterinary Medicine, Cairo University. |
| **Date of birth** | April 28, 1988. |
| **Place of birth** | Cairo |
| **Citizenship** | Egyptian |
| ***Contact Information*** |
| **Home phone** | 0225100391 |
| **Work phone** | 35720399 |
| **Mobile phone** | 01020771161 |
| **E-mail (s)** | drhanaa\_vet@cu.edu.eg |
| **Web site (s)** | ---------- |
| **Current Address** | 6 Atfet El- Rebahiy-EL Darb El Ahmar- Cairo  |
| ***Educational Qualifications*** |
| * **Ph.D. Zoonoses 2018,** Faculty of Veterinary Medicine, Cairo University, Egypt- Faculty of Veterinary Medicine, University of Calgary, Canada. (Joint supervision)
 |
| * **M.V.Sc. Zoonoses 2014,** Faculty of Veterinary Medicine, Cairo University, Egypt
 |
| * **B.V.Sc.** **2010,** Faculty of Veterinary Medicine, Cairo University, Egypt
 |
| ***Academic Positions*** |
| * **Lecturer (2018 – present)**, Zoonoses Department, Faculty of Veterinary Medicine, Cairo University, Egypt
 |
| * **Visiting Scholar (Jan- May 2020(**, Department of Microbial Infection and Immunity - College of Medicine, Ohio State University, USA.
 |
| * **Assistant Lecturer (2014 – 2018),** Zoonoses Department, Faculty of Veterinary Medicine, Cairo University, Egypt
 |
| * **Visiting scholar, PhD Research (2015-2017),** Public Health and Ecosystem Department, University of Calgary, Canada

  |
| * **Teaching assistant (2011-2014),** Department of Zoonoses, Faculty of Veterinary Medicine, Cairo University, Egypt
 |
| ***Thesis Title*** |
| **Ph.D. (2018):** Development of innate immune stimulants for the control of avian influenza virus infection |  |
| **M.V.Sc. (2014):** Public health significance of Listeria as a food borne pathogen |  |
| ***Areas of experience*** |
| I am interested in cell biology and immunology and how we can develop new tools to battle the infectious and zoonotic diseases. And to achieve that, first we must study the host microbe interaction, then we can find the bestway of control. |
| ***Awards*** |
| * **Short fellowship from USAID (Ohio state University) Jan– May 2020**
* **International Publication award from Cairo Uuniversity (2019)**
* **Joint Supervision PhD Scholarship (Cairo University- Calgary University, Ministry of higher education, Egypt) 2015-2017**
 |
| ***Professional Qualifications*** |
| * **Flow cytometry:** 26 color Cytek Aurora and gating using Flow Jo
* **Immunofluorescence techniques:** Immunostaining and taking very good images.
* **Tissue culture:** Cell culture works isolation, culturing, freezing and maintain primary cells and cell lines.
* **Molecular biology:** Nucleic acid (DNA, RNA) extraction and assessment using PCR and RT-PCR.
* **Microbiology:** Bacteria culturing, maintenance and counting.

Viral propagation, titration and plaque assay* **Exp. animals:** Maintaining experimental animal colonies(chicks).
* **Statistics:** Experimental data analysis using Graph Pad Prism.
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| **Publications** |
| 1. **Ahmed-Hassan H,** Sisson B, Shukla RK, Wijewantha Y, Funderburg NT, Li Z, Hayes D Jr, Demberg T and Liyanage NPM **(2020).** Innate Immune Responses to Highly Pathogenic Coronaviruses and Other Significant Respiratory Viral Infections. *Front. Immunol.* 11:1979. doi: [10.3389/fimmu.2020.01979](https://dx.doi.org/10.3389/fimmu.2020.01979)
2. Abdul-Cader, M. S., Senapathi, U. D. S., **Ahmed-Hassan, H.**, Sharif, S., & Abdul-Careem, M. F. **(2019)**. Single stranded (ss) RNA-mediated antiviral response against infectious laryngotracheitis virus infection. BMC microbiology, 19(1), 34. DOI: 10.1186/s12866-019-1398-6
3. **Ahmed-Hassan, H**., Abdul-Cader, M. S., Sabry, M. A., Hamza, E., & Abdul-Careem, M. F. **(2018)**. Toll-like receptor (TLR)4 signalling induces myeloid differentiation primary response gene (MYD) 88 independent pathway in avian species leading to type I interferon production and antiviral response. Virus research. DOI: [10.1016/j.virusres.2018.08.008](https://doi.org/10.1016/j.virusres.2018.08.008)
4. **Ahmed-Hassan, H**., Abdul-Cader, M. S., Senapathi, U. D. S., Sabry, M. A., Hamza, E., Sharif, S., Nagy, E., & Abdul-Careem, M. F. **(2018)**. Double stranded ribonucleic acid (dsRNA) -mediated antiviral response against low pathogenic avian influenza virus infection. Viral immunology. DOI:[10.1089/vim.2017.0142](https://doi.org/10.1089/vim.2017.0142)
5. Abdul-Cader, M. S., Amarasinghe, A., Palomino-Tapia, V., **Ahmed-Hassan, H.**, Bakhtawar, K., Nagy, E., & Abdul-Careem, M. F. **(2018)**. *In ovo* CpG DNA delivery increases innate and adaptive immune cells in respiratory, gastrointestinal and immune systems post-hatch correlating with lower infectious laryngotracheitis virus infection. PloS one, 13(3), e0193964. DOI: [10.1371/journal.pone.0193964](https://doi.org/10.1371/journal.pone.0193964)
6. **Ahmed-Hassan, H.**, Abdul-Cader, M. S., Senapathi, U. D. S., Sabry, M. A., Hamza, E., Nagy, E., & Abdul-Careem, M. F. **(2018)**. Potential mediators of in ovo delivered double stranded (ds) RNA-induced innate response against low pathogenic avian influenza virus infection. Virology journal, 15(1), 43.DOI: [10.1186/s12985-018-0954-2](https://doi.org/10.1186/s12985-018-0954-2)
7. Abdul-Cader, M. S., Palomino-Tapia, V., Amarasinghe, A., **Ahmed-Hassan, H.**, De Silva Senapathi, U., & Abdul-Careem, M. F. **(2018)**. Hatchery vaccination against poultry viral diseases: potential mechanisms and limitations. Viral immunology, 31(1), 23-33.DOI: [10.1089/vim.2017.0050](https://doi.org/10.1089/vim.2017.0050)
8. Abdul-Cader, M. S., **Ahmed-Hassan, H.**, Amarasinghe, A., Nagy, E., Sharif, S., & Abdul-Careem, M. F. **(2017)**. Toll-like receptor (TLR) 21 signalling-mediated antiviral response against avian influenza virus infection correlates with macrophage recruitment and nitric oxide production. Journal of General Virology, 98(6), 1209-1223. DOI: [10.1099/jgv.0.000787](https://doi.org/10.1099/jgv.0.000787)
 |
| **Conferences**  |
| 1. **Ahmed-Hassan H**, Abdul-Cader MS,  Sabry M, Hamza E, Abdul-Careem MF. Potential mediators of *in ovo* delivered double stranded (ds) RNA-mediated antiviral response against low pathogenic avian influenza virus infection. Conference of American Veterinary Medical Association (AVMA), Denver, July 13 -17, 2018 (pp. 2049)
2. Abdul-Cader MS, **Ahmed-Hassan H**, Abdul-Careem MF. Single stranded (ss) ribonucleic acids (RNA)-mediated antiviral response against infectious laryngotracheitis virus infection correlating with macrophage numbers and the expression of pro-inflammatory mediators. Conference of Research Workers in Animal Diseases (CRWAD), Chicago, December 2 – 5, 2017 (pp. 86).
3. Abdul-Cader MS, Amarasinghe A, Palomino-Tapia V, **Ahmed-Hassan H**, Bakhtawar K, Nagy E, Sharif S, Gomis S, Abdul-Careem MF. In ovo CpG DNA delivery increases innate and adaptive immune cells in in multiple body systems post-hatch correlating with lower infectious laryngotracheitis virus infection. Conference of Research Workers in Animal Diseases (CRWAD), Chicago, December 2 – 5, 2017 (pp. 86).
4. **Ahmed-Hassan H**, Abdul-Cader MS, Hamza E, Sabry M, Abdul-Careem MF. Induction of antiviral response against avian influenza virus infection using toll like receptor (TLR)3 ligand, double stranded RNA. Conference of Research Workers in Animal Diseases (CRWAD), Chicago, December 4 – 6, 2016 (PP:82).
 |
| **Mentorship** |
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| * **Eric Zhang** (Bsc-life science undergraduate student, Queens university, Kingston, Ontario, Canada): Title of the research project: Investigating potential activation of avian macrophages to produce type I interferon using TLR4.
 | **Summer 2016** |
| * **Ahmed Alariri** (DVM student, Qassim university, Saudi Arabia): Title of the research project:ssRNA mediated antiviral response against avian influenza virus infection *in vitro***.**
 |  **Summer 2016** |

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| **Training courses** |
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| **Self-marketing.** DAAD Cairo Academie.**Database sequencing** CBRS, Faculty of veterinary medicine,Cairo university.**Basics of bioinformatics and insilico primer design.**Alkhawarizimi for bioinformatics training center.  |  **April 2018****March 2018** **April 2014** |
| **Managing research team.**Faculty and leadership Development center, Cairo university. | **December 2014** |
| **Designing Scientific posters.**DAAD Cairo Academie. | **October 2014** |
| **The credit hour systems.**Faculty and leadership Development center, Cairo university. |  **August 2014** |
| **Effective presentation skills.**Faculty and leadership Development center, Cairo university. | **January 2014** |
| **International Publishing of Scientific Research.**Faculty and leadership Development center, Cairo university. | **September 2012** |
| **Exams & Standards Evaluation Process.**Faculty and leadership Development center, Cairo university. | **May 2012** |
| **E-Learning.**Faculty and leadership Development center, Cairo university. | **April 2012** |
| **Use of Technology in Teaching.**Faculty and leadership Development center, Cairo university. | **September 2011** |
| **University code of ethics.**Faculty and leadership Development center, Cairo university. |  **June 2011** |
| **Inter-Personal Skills** Zedny Society | **February 2007** |

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