

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Ibrahim F. Rehan, dr
Position	Assistant Professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	14, 590
Research areas (in points, min. 200 characters, max. 500 characters)	• Dr. Ibrahim F. M. Rehan is a researcher specializing in Nutrigenomics, Biotechnology, Animal Behavior, Stress Physiology, and Glycomics. • Awarded the MEXT scholarship, he earned his Ph.D. from Hokkaido University, Japan, focusing on glycomics and MALDI-TOF/MS for biomarker discovery in livestock and human diseases. • Served as a postdoc researcher at Meijo University, Japan.
Total number of completed research projects; currently implemented research projects (title and number) and selected max. 3 completed projects (title and number) from the newest ones, i.e. 2024, 2023, 2022...	– 8 – Role of bioactive compounds on gut microbiota, metabolic regulation, and animal health and productivity at the Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences. – Newest projects: 1) Collaborative project: scientific research from the Japan society for the promotion of science. Department of Pathobiochemistry, Faculty of Pharmacy, Japan and Menoufia University, Egypt [2024 – 2025]. *Co-investigator: (Ibrahim F. Rehan(*), Asmaa Elnagar, František Zigo, Ahmed Sayed-Ahmed, and Shuheh

Yamada).
 Budget amount is 4000 USD.
 (Meijo University).
 - Theme and achievement:
 Biomimetic strategies for the deputization of proteoglycan functions.
 URL: (<https://www.frontiersin.org/journals/cell-and-developmental-biology/articles/10.3389/fcell.2024.1391769/full>)
 - Participant countries:
 Japan & Egypt.

2) Project Slovak KEGA. University of Veterinary Medicine and Pharmacy, Košice, Slovakia, Department of nutrition and animal husbandry and Menoufia University, Egypt.
 Project no. 010UVLF-4-2023 [2023].
 *Co-investigator:
 (Hala Y. Amer, Hala Y. Amer, Rasha I. M. Hassan, Fatma El-Zahraa A. Mustafa, Ramadan D. EL-Shoukary, Ibrahim F. Rehan(*), František Zigo, Zuzana Lacková, and Walaa M. S. Gomaa).
 Budget amount is 2950 USD
 (University of Veterinary Medicine and Pharmacy).
 - Theme and achievement:
 Modulation of immunity, antioxidant status, performance, blood hematology, and intestinal histomorphometry in response to dietary inclusion of *Origanum majorana* in domestic pigeons' diet.
 URL: (<https://www.mdpi.com/2075-1729/13/3/664>)
 - Participant countries:
 Slovakia Republic & Egypt.

3) Project research no. 2021-241, King Saud University, Riyadh, Saudi Arabia and Menoufia University, Egypt [2023].
 *Co-investigator:
 (Asmaa Elnagar, Khalifa El-Dawy, Hussein I. El-Belbasi, Ibrahim F. Rehan(*), Hamdy Embark, Zeinab Al-Amgad, Obeid Shanab, Elsayed Mickdam, Gaber E. Batiha, Salman Alamery, Samer S. Fouad, Simona Cavalu, and Mohammed Youssef).
 Budget amount is 2950 USD
 (King Saud University).

	- Theme and achievement: Ameliorative effect of oxytocin on FBN1 and PEPCK gene expression, and behavioral patterns in rats' obesity-induced diabetes. URL: (https://www.frontiersin.org/journals/public-health/articles/10.3389/fpubh.2022.777129/full). - Participant countries: Saudi Arabia & Egypt.
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the profile); indicate selected publications (max. 5)	– 52 – 0000-0002-5632-0199 (https://orcid.org/0000-0002-5632-0199) – Selected Publications: 1) Alshimaa Saber, Amany Mawas, Atef M. Khalil, Ahmed I. Ahmed, Dina M.W. Shibab Elhamd, Esraa Ali, Ibrahim F. Rehan(*), Asmaa Elnagar, František Zigo and Mohammed Salah (2025). Therapeutic impact of dietary ginger supplementation in chickens experimentally infected with coccidia -anti-oxidant, biochemical, and pathological evaluations. <i>Frontiers in Veterinary Science</i> 12. doi:10.3389/fvets.2025.1511759. (Q1 Journal, IF:2.6). 2) Ibrahim F. Rehan(*), Asmaa Elnagar, František Zigo, Ahmed Sayed-Ahmed, and Shuhei Yamada (2024). Biomimetic strategies for the deputization of proteoglycan functions. <i>Frontiers in Cell and Developmental Biology</i> 12. 1391769. doi:10.3389/fcell. 2024.1391769. (Q1 Journal, IF:4.6). 3) Zeinab Kamal, A. A. Ebnalwaled, Zeinab Al-Amgad, Alaa H. Said, Asmaa A. Metwally, František Zigo, Silvia Ondrašovičová, and Ibrahim F. Rehan(*) (2022). Ameliorative effect of biosynthesized titanium dioxide nanoparticles using garlic extract on the body weight and developmental toxicity of liver in albino rats compared with chemically synthesized nanoparticles. <i>Frontiers in Veterinary Science</i> 9: 1049817. doi:10.3389/fvets.2022.1049817. (Q1 Journal, IF:2.6). 4) Ibrahim F. Rehan(*), Ahmed F Rehan, Ahmed F Abouelnaga, Mohamed A Hussein, Waleed R El-Ghareeb, Nesreen Zakaria Eleiwa, Asmaa Elnagar, Khalifa El-Dawy, Hussein I El-Belbasi, Mohamed H Mahmoud, Gaber El-Saber Batiha, Hossam E Gadallah, Shereen E. Abdel-Hamid, Barbara M Benowitz, and Mohamed Abdelfattah Maky. (2022). Impact of dietary egg yolk IgY powder on behavior, meat quality, physiology, and intestinal Escherichia coli colonization of broiler chicks. <i>Frontiers in Veterinary Science</i>, 9:1-11, 783094. doi:10.3389/fvets.2022.783094. (Q1 Journal, IF:2.6). 5) Ibrahim F. Rehan(*), Motamed E. Mahmoud, Doaa Salman, Asmaa Elnagar, Saleh Salman, Mohammed Youssef, Amer R. Abdel Aziz, Eman K. Bazh, and Abd El-Latif Hesham. Sialylated N-glycan profile during acute and chronic infections with Toxoplasma gondii in mice. <i>Scientific Reports</i> 10:1-17, 3809. doi:10.1038/s41598-020-60681-4. (Q1 Journal, IF:3.8). (*): corresponding author

Total number of patents; selected patents (max. 2) and a hyperlink to personal patent achievements (UP RP), on the day of completing the form	– None
Selected scientific achievements from the newest, i.e. 2023, 2022, 2021... (in points, min. 800 characters, max. 1000 characters)	Honours and Awards • [17/12/2024] Slovak Republic Government Scholarship (8,820 EUR/6 months), University of Veterinary Medicine and Pharmacy in Košice. • [12/2023] Publication Encouragement Award, Menoufia University. [04/2022] Scientific Project Funding (4.5 M JPY), EJEP–JICA, Egypt. • [05/2021] Excellent Publication Prize, Menoufia University. • [01/2021] Project Funding (100,000 EGP), STDF, Egypt. [06/2020] Medical Research Publication Prize, Menoufia University. • [10/2019] Veterinary Sciences Publication Prize, South Valley University. [09/2016] Project Funding (300,000 EGP), South Valley University. • [09/2015] Hokkaido University Project Funding (540,000 JPY). • [07/2012] MEXT Scholarship (1.8 M JPY/year, 3 years), Hokkaido University. [09/2011] ParOwn Travel Award (90,000 GBP), MHESR, Egypt. • [09/2011] Special Achievement Award, South Valley University.
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	– [04/2018 – 02/2022] Thesis supervision (14 doctor students), South Valley University, Qena, Egypt. – [04/2017 – 04/2020] Thesis supervision (9 master students), South Valley University, Egypt.
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	Conferences & Seminars – [07/01/2023] <i>Sialylated N-glycan as a biomarker for Toxoplasma gondii</i>, Meijo Univ., Japan, 18th Power of Youth (Poster). – [06–08/2018] <i>Passive immunization in broilers, Immunity in Lohmann layers, and Egg-white glycomics in game birds</i>, 3rd Int. Conf. Vet. Sci., Hurghada, Egypt (Oral). – [15/11/2016] <i>Ethnic variation in human serum N-glycosylation</i>, Hokkaido Univ., Japan (Oral). – [06/01/2016] <i>Indian vs. Japanese serum N-glycomics</i>, Univ. of Mysore, India (Oral). – [19/09/2015] <i>Sialic acid as seasonal biomarker in dairy cows</i>, Split, Croatia (Oral). – [27/05/2015] <i>N-glycan biomarkers in dairy cows</i>, SPS, Sapporo, Japan (Oral). – [23/10/2014] <i>Serum N-glycans and stress in dairy cows</i>, Hokkaido Univ., Japan (Oral). Lectures – [15/03/2023] <i>HFS-diets and olfactory discrimination in rats</i>, Meijo Univ., Japan. – [04–05/10/2020] <i>Future approach to survive COVID-19</i>, Menoufia Univ., Egypt.