Curriculum Vitae

Mohamed Elbadawy, BSC, MS, Ph.D

Associate Professor of Pharmacology

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- **Personal Details and Contact Information**

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- **Rank**

  Associate Professor

- **Degrees Held**

BS (2003)	Bachelor of Veterinary Medical Sciences, Faculty of Veterinary Medicine, Benha University, Egypt
MS (2007)	MS in Veterinary Medical Sciences (Pharmacology) from the Faculty of Veterinary Medicine, Benha University, Egypt. Thesis entitled "Some Pharmacodynamic Effects of Cefepime".
Ph.D. (2015)	Ph.D. in Veterinary Sciences (Pharmacology) from the United Graduate School of Veterinary Sciences, Gifu University-Tokyo University of Agriculture and Technology, Japan. Thesis entitled "Drug Absorption Profiles after Oral Administration in Goats".
Diploma (2018)	Diploma of Clinical Biochemistry, Faculty of Veterinary Medicine, Benha University, Egypt.

- **Professional Experience Records**

May 2022~February 2023	JSPS Invitational Scientist, Lab. of Pharmacology, Dept. of Vet. Sciences, Tokyo Univ. of Agriculture and Technology, Tokyo, Japan.

March 2021 ~ April 2022	Senior Research Scientist for 3D, 2D cell culture and analysis, precision medicine at Air-Dec Mini Co., Ltd., Tokyo, Japan (Company Profile| Airdeck mini)
July 2021 ~ April 2022	Assistant Professor, Lab. of Pharmacology, Dept. of Vet. Sciences, Tokyo Univ. of Agriculture and Technology, Tokyo, Japan.
December 2020 ~	Associate Professor of Pharmacology Department, Faculty of Veterinary Medicine, Benha University, Egypt.
Nov. 2018 ~ Dec. 2020	JSPS Standard Post-doctoral Scientist at Tokyo University of Agriculture and Technology, Japan
Feb. 2018 ~ Aug. 2018	Post-doctoral Fellow, Tokyo University of Agriculture and Technology, Japan
April 2015 ~ Feb. 2018	Assistant Professor of Pharmacology Department, Faculty of Veterinary Medicine, Benha University, Egypt.
April 2011 ~ Feb. 2015.	Ph.D. student and Teaching Assistant at the Laboratory of Pharmacology, Department of Veterinary Sciences. United Graduate School of Veterinary Sciences, Gifu Univ., (Tokyo University of Agri. and Technology). Japan
Sep. 2007 ~ Feb. 2011.	Assistant Lecturer of Pharmacology Department, Faculty of Veterinary Medicine, Benha University, Egypt.
May 2004 ~ Sep. 2007	Demonstrator of Pharmacology Department, Faculty of Veterinary Medicine, Benha University, Egypt.

- **Scholarships and Awards**
  - **May 2022:** JSPS Invitational Post-doctoral Fellowship Award in Japan for 10 months in the Laboratory of Veterinary Pharmacology, Department of Veterinary Medicine, Tokyo University of Agriculture and Technology, Japan.
  - **January 2021:** Another Post-doctoral Fellow in Japan for 6 months in the Laboratory of Veterinary Pharmacology, Department of Veterinary Medicine, Tokyo University of Agriculture and Technology, Japan.

- **2020:** Benha University's best achievement award in scientific research publications (Excellence Shield award).
- **11/2018~12/2020:** JSPS Standard Post-doctoral Fellowship Award in Japan for 25 months in the Laboratory of Veterinary Pharmacology, Department of Veterinary Medicine, Tokyo University of Agriculture and Technology, Japan to study organoid technologies in basic medicine and translational research.
- **February 2018:** Post-doctoral Fellow in Japan for 6 months in the Laboratory of Veterinary Pharmacology, Department of Veterinary Medicine, Tokyo University of Agriculture and Technology, Japan.
- **Post-Doctoral Scholarship** (4 February 2018 ~ 4 August 2018) from the Egyptian Government, Ministry of Higher Education, Cultural Affairs, and Mission Sector to study 3D tissues culture techniques and the effect of several drugs of different origins on the growth and proliferation of different cancer organoids as well as drug-drug interaction caused by alterations in drug metabolism, in Japan at Tokyo University of Agriculture and Technology.
- **Four-year Ph.D. Scholarship** (2011-2015) from the Egyptian Government, Ministry of Higher Education, Cultural Affairs, and Mission Sector to study Ph.D. in Japan at the United Graduate School of Veterinary Sciences, Gifu University, Tokyo University of Agriculture and Technology.
- **2015-2022:** Several annual Awards of excellence in scientific research from Benha University, Egypt.
- **2003:** Ideal student award from the Faculty of Veterinary Medicine, Benha University.

- **Research Experiences**
  - Two D cell culture and 3D (**organoids**) culture and anticancer drug assay (personalized medicine).
  - In vivo/Xenograft antitumor drug efficacy test (mouse), xenograft drug test (mouse).
  - In vitro/cytotoxic activity evaluation, growth suppression evaluation.
  - Genetic diagnosis of BRAF (TCC), Lafora (EPM2A gene or the NHLRC1 gene), c-KIT mutations as well as lymphocyte clonality check in pet animals.
  - Western Blotting.
  - Immunofluorescence.
  - Immunohistochemistry.
  - PCR
  - High-Performance Liquid Chromatography (HPLC).
  - Disposition kinetics and Pharmacodynamics.
  - Biochemical measuring and monitoring.
  - Effect of drugs on isolated organs, tissues, and muscle preparations.
  - Effect of drugs on intact animals (blood pressure, ECG, respiration, hepatotoxicity, nephrotoxicity, analgesic, antipyretic, and anti-inflammatory effects).

- **Teaching Experience**
  - **Post-doc Feb 2018 ~ now:** at Tokyo University of Agriculture and Technology, Dept. of Veterinary Medicine, Laboratory of Pharmacology I have been involved in teaching 2D and 2.5D cell culture and 3D organoids culture techniques, anticancer drug assays, genetic mutation tests, Electrophoresis and Western Blotting, Immunofluorescence, Immunohistochemistry, PCR, High-Performance Liquid Chromatography (HPLC), staining Paraffin sections and frozen sections to graduate and post-graduate students.
  - **Post-doc Feb 2015 ~ 2018:** Teaching general and systemic Pharmacology (Theoretical and Practical) and Toxicology courses to third-grade undergraduate and graduate students of the general and special programs at the Faculty of Veterinary Medicine, Benha University, Egypt. Giving lectures on Pharmacognosy and Pharmaceutics to the VDBP special program students.
  - **Ph.D. (2011-2015):** (The United Graduate School of Veterinary Sciences, Gifu University, Tokyo Univ. of Agriculture and Technology, Japan) at that period, I studied the disposition kinetics and oral absorption profiles of several drugs with

different physicochemical properties in small ruminants (goats). I was also involved in teaching practical classes of Pharmacology to students.

- **Pre-Doc. (2007-2009):** (Benha University) at that period I was being prepared to study immunopharmacology and Pharmacokinetics of some veterinary drugs in animals by studying their effects on the cellular pathways of signal transduction and the effect of these drugs on the whole immune system of animals through challenging test and the response of the medicated animals immune system to the infectious organisms. To get experience in those areas I studied classes in general immunology, immunopharmacology, and animal Virology. *These trials were stopped when I got a scholarship to study for a Ph.D. abroad in Japan*.
- **MVSc. (2003 - 2007):** "Pharmacodynamic effects of cefepime on isolated organ or tissue preparations as well as in intact laboratory animals. During these three years of the Master's program, I completed courses in general pharmacology, systemic pharmacology, chemotherapy, infectious diseases of laboratory animals, Milk Hygiene and control, Computer sciences and biostatistics, and research methods. Besides my classes and research, I spent a significant amount of time assisting in the teaching of laboratory techniques to students. I acquired experience and proficiency in teaching and laboratory work.
- **BVSc. (2003):** Graduated from the Faculty of Veterinary Medicine, Benha University, Egypt. Following graduation, I was hired to assist in the teaching of pharmacokinetics, pharmacodynamics, Experimental Pharmacology, and Dispensing in the department of pharmacology. My responsibility included teaching and training, undergraduate students. While employed, I received my master's degree in Veterinary Medical Sciences (Pharmacology, 2007) and was appointed to an assistant lecturer position in 2007. Since 2007, I have taught different classes for undergraduate, and graduate students.

- **<u>Conferences and Meetings</u>**

1. The 165th meeting of the Japanese Society of Veterinary Science, in September 2022 in Sagamihira, Kanagawa, Azabu University, Japan. [J1A-12] Establishment of a direct 2.5D organoid culture model from companion animal cancer tissues.
2. The 165th meeting of the Japanese Society of Veterinary Science, in September 2022 in Sagamihira, Kanagawa, Azabu University, Japan. [J1A-10] Comparative

analysis of canine malignant mesothelioma organoids and two-dimensional cultured cells.

3. The 49th Annual Meeting of the Japanese Society of Toxicology. June 30, 2022 - July 02, 2022. Poster Session, The Establishment of the normal dog bladder organoid culture model evaluated the carcinogenic toxicity of chemical substances. *Haru YAMAMOTO, Kodai FUJISAKA, Mohamed ELBADAWY, Yusuke ISHIHARA, Daigo AZAKAMI, Tsuyoshi UCHIDE, Ryuji FUKUSHIMA, Takashi MORI, Tatsuya USUI, Kazuaki SASAKI.
4. The 49th Annual Meeting of the Japanese Society of Toxicology. June 30, 2022 - July 02, 2022. Poster Session, The Safety and Efficacy of the Liquid Form of Traditional Chinese Medicine, Hozen-S, in dogs. *Yuta SHINOHARA, Mohamed ELBADAWY, Megumi YAMANAKA, Haru YAMAMOTO, Yomogi SATO, Amira ABUGOMAA, Tatsuya USUI, Kazuaki SASAKI.
5. The 95th Annual Meeting of the Japanese Pharmacological Society of Japan, held at Fukuoka, Japan, event date: 2022/03/07 - 2022/03/09, Abstract and poster presentation entitled “Effect of the liquid form of traditional Chinese medicine, Hozen-S, on gastric motility in dog” Session ID: 95_1-P-068, https://doi.org/10.1254/jpssuppl.95.0_1-P-068
6. The 44th Annual Meeting of the Molecular Biology Society of Japan, held at Pacifico Yokohama from Wednesday, 1 December to Friday, 3 December 2021. Abstract and poster presentation entitled “Changes in small intestinal organoids of bats induced by PRV infection”.
7. The 94th Annual Meeting of the Japanese Pharmacological Society “The Exciting Future of Pharmacology” was held at Sapporo Convention Center, Sapporo, Japan on 8~10 March 2021. Poster Session of Liver, No.: 3-P2-29 entitled: Evaluation of the usefulness of three-dimensional organoid culture in the drug screening of non-alcoholic steatohepatitis (NASH) disease.
8. The 94th Annual Meeting of the Japanese Pharmacological Society “The Exciting Future of Pharmacology” was held at Sapporo Convention Center, Sapporo, Japan on **8**~10 March 2021. Poster Session of Liver, No.: 1-P2-43 entitled: Study of Anti-proliferative Effects of Chaga Mushroom and Panax Notoginseng-containing Traditional Chinese Medical Supplement, Shibe-ria on Dog Bladder Cancer Stem Cells.

9. The 94th Annual Meeting of the Japanese Pharmacological Society “The Exciting Future of Pharmacology” was held at Sapporo Convention Center, Sapporo, Japan on 8~10 March 2021. Poster Session of Liver, No.: 1-P2-44 entitled: Development of an anti-cancer drug sensitivity test using a urine sample-derived organoid culture for dog bladder cancer.
10. The 94th Annual Meeting of the Japanese Pharmacological Society “The Exciting Future of Pharmacology” was held at Sapporo Convention Center, Sapporo, Japan on 8~10 March 2021. Poster Session of Liver, No.: 1-P2-45 entitled: Establishment of a culture method of the human bladder cancer organoid using the urine sample.
11. The 94th Annual Meeting of the Japanese Pharmacological Society “The Exciting Future of Pharmacology” was held at Sapporo Convention Center, Sapporo, Japan on 8~10 March 2021. Poster Session of Liver, No.: 1-P2-46 entitled: Establishment of a culture method of the dog lung cancer organoid.
12. The 163rd meeting of the Japanese Society of Veterinary Science, in August 2020 in Yoshida, Yamaguchi City, Yamaguchi University, Japan. JO-20, Establishment of cat mammary tumor organoid culture method. Haru Yamamoto, Mohamed Elbadawy, Tatsuya Usui, Kazuaki Sasaki.
13. The 163rd meeting of the Japanese Society of Veterinary Science, in August 2020 in Yoshida, Yamaguchi City, Yamaguchi University, Japan. JO-18, Elucidation of the mechanism of suppression of human colorectal cancer stem cell growth by the amorphous preparation curcumin. Kimika Hayashi, Mohamed Elbadawy, Tatsuya Usui, Kazuaki Sasaki.
14. The 163rd meeting of the Japanese Society of Veterinary Science, in August 2020 in Yoshida, Yamaguchi City, Yamaguchi University, Japan. JO-21, Development of anti-cancer drug susceptibility test using urinary cancer organoid culture method derived from a urine sample. Sato Yomogi, Mohamed Elbadawy, Usui Tatsuya, Sasaki Kazuaki
15. The 38th Annual Meeting of the Japan Veterinary Medical Association was held on 7th – 9th February 2020 at Tokyo International Forum, Tokyo, Japan. Presentation number 10, “entitled Correlation of salivary and plasma steroids with testis volume/echotexture in different climatic conditions in goats”.
16. The 93rd Annual Meeting of the Japanese Pharmacological Society. Bidirectional talk between bench and bedside, held in Pacifico Yokohama Conference Centre

on 16-13 March 2020. *Posters* 2-P-232, 2-P-260, and 3-P-340 as well as *Oral Session* 1-SS-22.

17. The 162nd meeting of the Japanese Society of Veterinary Science, on 10-12 September 2019 in Tsukuba, Japan. Oral Presentation JO – 6 titled (Establishment of a novel experimental model of non-alcoholic steatohepatitis (NASH) by using liver organoid culture).
18. The 112th Annual Meeting of the Japanese Society of Reproduction and Development (SRD) on September 5th, 2019 in Sapporo, Japan. Poster P-16, (Effect of single subcutaneous dose of melatonin on testicular blood flow and circulating hormones in Shiba goats).
19. The 92nd annual meeting of the Japanese Pharmacological Society. Concerto on Science and innovation toward a new horizon of Pharmacology, Osaka (Osaka International Convention Centre), Japan, 14, 15, 16 March 2019. My presentation title is (2-O-15, Establishment of Dog Primary Bladder Cancer Organoids Using the urine-derived cancer stem cells).
20. The 92nd annual meeting of the Japanese Pharmacological Society. Concerto on Science and innovation toward a new horizon of Pharmacology, Osaka (Osaka International Convention Centre), Japan, 14, 15,16 March 2019. The title is (Studies on colorectal cancer using a human colorectal air-liquid interface organoid model).
21. 14th International Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT2018), held in Wroclaw, Poland, June 24-27, 2018. 80_Tatsuya Usui, Mohamed Elbadawy and Kazuaki Sasaki. Urine sample-derived cancer organoids enable tailor-made medicine for dog prostate cancer.
22. 14th International Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT2018). K. Sasaki, M. Elbadawy, Y. Ishihara, M. Aboubakr & M. Shimoda. Oral absorption profiles of sulfonamides in Shiba goats.
23. 12th International Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT 2012), 8–12 July 2012, Netherlands, Poster No2.1.29, Oral pharmacokinetics of acidic drugs, diclofenac and SMM in ruminants.pdf

24. Second International Scientific Conference from 29 Jan. to 1 Feb. 2009 Benha – Ras Sudr entitled "Veterinary Medicine from Education and Learning to Public Health and National Economy".
25. Okazaki city veterinary special lecture meetings of The United Graduate School of Veterinary Sciences hold on the 1st -3rd of September 2011.
26. The 156th meeting of the Japanese Society of Veterinary Science from 20/9/2013 to 22/9/2013 in Gifu, Tokyo, Japan entitled "Contribution of Veterinary Medicine to the Society".

- **Future Conferences and Meetings**

27. The 15th International Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT Congress 2023) taking place in Bruges, Belgium on 2-5 July, 2023, https://eavpt23.org/. Submission Title: Anti-cancer activity of Chaga mushroom (Inonotus obliquus) against patient-derived bladder cancer organoids.

- **Major Publications** (Ψ=equal contribution; *=corresponding author)

1. Yomogi Sato, **Mohamed Elbadawy***,,,,, Tatsuya Usui, Kazuaki Sasaki. Establishment of an experimental model of canine malignant mesothelioma organoid culture using a three-dimensional culture method. *Biomedicine & Pharmacotherapy.* Volume 162, June **2023**, 114651.
2. Amira Abugomaa, **Mohamed Elbadawy***, Yusuke Ishihara, Haru Yamamoto, Masahiro Kaneda, Hideyuki Yamawaki, Yuta Shinohara, Tatsuya Usui*, Kazuaki Sasaki. Anti-cancer activity of Chaga mushroom (Inonotus obliquus) against dog bladder cancer organoids. *Frontiers in Pharmacology.* April **2023**, Volume 14_ https://doi.org/10.3389/fphar.2023.1159516
3. Maryam Dadar, Saeed Alamian, Hanka Brangsch, **Mohamed Elbadawy**, Ahmed R. Elkharsawi, Heinrich Neubauer and Gamal Wareth. Determination of Virulence-Associated Genes and Antimicrobial Resistance Profiles in Brucella Isolates Recovered from Humans and Animals in Iran Using NGS Technology. *Pathogens* **2023**, 12(1), 82; https://doi.org/10.3390/pathogens12010082
4. **Mohamed Elbadawy**, Megumi Yamanaka, Yuta Goto, Kimika Hayashi, ,,,,, Amira Abugomaa, ,,,, Tatsuya Usui, Kazuaki Sasaki**.** Efficacy of primary liver organoid culture from different stages of non-alcoholic steatohepatitis (NASH) mouse model. *Biomaterials* 2020 April, 119823. https://doi.org/10.1016/j.biomaterials.2020.119823 IF: 15.304, Q1, JIF%: 99.06

5. Amira Abugomaaa, **Mohamed Elbadawy***, Haru Yamamoto, Hiromi Ayame, Yusuke Ishihara, Yomogi Sato, Hideyuki Yamawaki, Masahiro Kaneda, Tatsuya Usui*, Kazuaki Sasakia. Establishment of a direct 2.5D organoid culture model using companion animal cancer tissues. *Biomedicine & Pharmacotherapy*, October 2022, Volume 154, Article 113597. https://doi.org/10.1016/j.biopha.2022.113597 IF: 7.419, Q1, JIF%: 90.86
6. **Mohamed Elbadawy***, Kodai Fujisaka, ,,,,,, Amira Abugomaa, Masahiro Kaneda, Hideyuki Yamawaki, Yuta Shinohara, Tsutomu Omatsu, Tetsuya Mizutani, Tatsuya Usui*, Kazuaki Sasaki. Establishment of an experimental model of normal dog bladder organoid using a three-dimensional culture method. *Biomedicine & Pharmacotherapy*, April 2022, Volume 151, Article 113105. https://doi.org/10.1016/j.biopha.2022.113105 IF: 7.419, Q1, JIF%: 90.86
7. **Mohamed Elbadawy,** ,,,,,,,,,,,, Tatsuya Usui, Kazuaki Sasaki. Anti-cancer activity of amorphous curcumin preparation in patient-derived colorectal cancer organoids. *Biomedicine and Pharmacotherapy*, Oct. 2021, Volume 142, Article 112043 https://doi.org/10.1016/j.biopha.2021.112043 IF: 7.419, Q1, JIF%: 90.86
8. **Mohamed Elbadawy**, Tatsuya Usui, Takashi Mori, et al., Establishment of a novel experimental model for muscle-invasive bladder cancer by using dog bladder cancer organoid culture. *Cancer Science,* 2019 June;110(9):2806-2821 https://doi.org/10.1111/cas.14118 IF: 6.518 Q2, JIF%: 74.9
9. **Mohamed Elbadawy**, Yomogi Sato, Takashi Mori, ,,,,,,Tatsuya Usui, Kazuaki Sasaki. Anti-tumor effect of trametinib in bladder cancer organoid and the underlying mechanism. *Cancer Biology & Therapy*, 2021, 22:5-6, 357-371. https://doi.org/10.1080/15384047.2021.1919004 IF: 4.875, Q2, JIF%: 60.61
10. **Mohamed Elbadawy**, ,,,,Tatsuya Usui, Kazuaki Sasaki. Establishment of Intestinal Organoid from *Rousettus leschenaultii* and the Susceptibility to Bat-associated Viruses, SARS-CoV-2 and *Pteropine orthoreovirus*. *International Journal of Molecular Sciences*, 2021, 22(19), 10763; https://doi.org/10.3390/ijms221910763. IF: 6.208, Q1, JIF%: 76.68
11. **Mohamed Elbadawy**, Amira Abugomaa, Hideyuki Yamawaki, Tatsuya Usui , Kazuaki Sasaki. Development of Prostate Cancer Organoid Culture Models in Basic Medicine and Translational Research. *Cancers* 2020 March, 12(4), 777; https://doi.org/10.3390/cancers12040777 IF: IF: 6.575 Q1, JIF%: 75.71
12. Amira Abugomaa$^{\Psi}$, **Mohamed Elbadawy**$^{\Psi}$, ,,,,,,,,,,Tatsuya Usui, Kazuaki Sasaki.

Establishment of 2.5D organoid culture model using 3D bladder cancer organoid culture. *Scientific Reports*, 2020 June, 10 (1), Article number: 9393. https://doi.org/10.1038/s41598-020-66229-w IF: 4.996, Q2, JIF%: 74.66

13. Amira Abugomaa[Ψ], **Mohamed Elbadawy**[Ψ], Hideyuki Yamawaki, Tatsuya Usui, and Kazuaki Sasaki. Emerging roles of cancer stem cells in bladder cancer progression, tumorigenesis, and resistance to chemotherapy: a potential therapeutic target for bladder cancer. *Cells* 2020 Jan, 9(1), 235; https://doi.org/10.3390/cells9010235 IF: 7.666 Q2, JIF%: 73.97
14. **Mohamed Elbadawy,** Tatsuya Usui, Hideyuki Yamawaki and Kazuaki Sasaki. Development of an Experimental Model for Analyzing Drug Resistance in Colorectal Cancers. *Cancers*, 10(6), 164, 7 pages. (2018). https://doi.org/10.3390/cancers10060164 IF: 6.575 Q1, JIF%: 75.71
15. **Elbadawy M**, Usui T, Yamawaki H, Sasaki K. Emerging roles of c-Myc in cancer stem cell-related signaling and resistance to cancer chemotherapy: A potential therapeutic target against colorectal cancer. *International Journal of Molecular Sciences*, 2019; 20 (9). https://doi.org/10.3390/ijms20092340 IF: 6.208, Q1, JIF%: 76.68
16. **Elbadawy M**, Usui T, Yamawaki H, Sasaki K. Novel Functions of Death-Associated Protein Kinases through Mitogen-Activated Protein Kinase-Related Signals. *International Journal of Molecular Sciences,* 2018 4;19(10). https://doi.org/10.3390/ijms19103031 IF: 6.208, Q1, JIF%: 76.68
17. Amira Abugomaa and **Mohamed Elbadawy*.** Patient-derived organoid analysis of drug resistance in precision medicine: is there a value? *Expert Review of Precision Medicine and Drug Development*, (2020, Jan) Vol. 5 (1): 1-5. https://doi.org/10.1080/23808993.2020.1715794 IF: Q4, JIF%: 14.91
18. Hussein M El-Husseiny, Eman A Mady, Lina Hamabe, Amira Abugomaa, Kazumi Shimada, Tomohiko Yoshida, Takashi Tanaka, Aimi Yokoi, **Mohamed Elbadawy,** Ryou Tanaka**.** Smart/stimuli-responsive hydrogels: Cutting-edge platforms for tissue engineering and other biomedical applications. *Materials Today Bio*, January 2022, Volume 13, Article 100186; https://doi.org/10.1016/j.mtbio.2021.100186 IF: 10.761, Q1, JIF%: 89.29
19. Usui T, Sakurai M, Umata K, **Elbadawy M**, et al. Hedgehog Signals Mediate Anti-Cancer Drug Resistance in Three-Dimensional Primary Colorectal Cancer Organoid Culture. *International Journal of Molecular Sciences,* 19 (4), 1098.

(2018). https://doi.org/10.3390/ijms19041098 IF: 6.208, Q1, JIF%: 76.68

20. Toshinori Yoshida, Mio Kobayashi, ,,,,, Takanori Harada, Tatsuya Usui, **Mohamed Elbadawy**, Makoto Shibutani. The Potential of Organoids in Toxicologic Pathology: Role of toxicologic pathologists in *in vitro* chemical hepatotoxicity assessment. *Journal of Toxicologic Pathology,* May 2022*,* https://doi.org/10.1293/tox.2022-0017
21. Tatsuya Usui, **Mohamed Elbadawy** and Kazuaki Sasaki. Urine sample-derived cancer organoids enable tailor-made medicine of dog prostate cancer. *Journal of Veterinary Pharmacology and Therapeutics*, 14 June 2018, Vol. 41, Issue S1, Pages 28-30. https://doi.org/10.1111/jvp.12625 IF: 1.567, Q2, JIF%: 62.67
22. Haru Yamamoto[Ψ], **Mohamed Elbadawy[Ψ],** ,,,,,,,,,,,, Tatsuya Usui, Kazuaki Sasaki. Evaluation of the Safety and Feasibility of Apheresis in Dogs: For Application in Metastatic Cancer Research. *Animals* September 2021, Volume 11(10), Article 2770; https://doi.org/10.3390/ani11102770 IF: 2.75, Q1, JIF%: 87.33
23. Ahmed Elfadadny, ,,,,,,,,, **Mohamed Elbadawy*.** Role of multidrug resistance-associated proteins in cancer therapeutics: past, present, and future perspectives. *Environmental Science and Pollution Research* (2021), 28:49447–49466, https://doi.org/10.1007/s11356-021-15759-5 IF: 5.19 JIF: 66.971
24. Asmaa Sadat, Amira Abugomaa, **Mohamed Elbadawy** and Amal Awad. Phylotypic profiling, distribution of pathogenicity island markers, and antimicrobial susceptibility of Escherichia coli isolated from retail chicken's meat and humans. *Antibiotics*, 2022, 11(9), 1197; https://doi.org/10.3390/antibiotics11091197
25. Asmaa Sadat, ,,,, Adel Alkhedaide, Mohamed Mohamed Soliman, **Mohamed Elbadawy,** Amira Abugomaa***** and Amal Awad*. Prevalence and characterization of PVL-Positive *Staphylococcus aureus* isolated from raw cow's milk. *Toxins* 2022, 14(2), 97; https://doi.org/10.3390/toxins14020097. IF: 5.075, Q1, JIF%: 79.26
26. Ahmed S. Mandour1,,,,,,**Mohamed Elbadawy**, Akiko Uemura, ,,,, Watanabe Gen, and Ryou Tanaka. Novel Color-M mode Echocardiography for Non-invasive Assessment of the Intraventricular Pressure in Goats: Feasibility, Repeatability, and the Effect of Sedation. *Frontiers in Veterinary Science*, 2022, doi: 10.3389/fvets.2022.935437 & https://doi.org/10.3389/fvets.2022.935437
27. **Mohamed Elbadawy***, Ahmed Soliman, Amira Abugomaa, Adel Alkhedaide, Mohamed Mohamed Soliman, and Mohamed Aboubakr. Disposition of Cefquinome in Turkeys (Meleagris gallopavo) Following Intravenous and Intramuscular Administration. *Pharmaceutics* 2021, 13(11), 1804;

https://doi.org/10.3390/pharmaceutics13111804. IF: 6.525, Q1-JIF%: 86.20

28. **Mohamed Elbadawy***,,,,,,, Amany El-Mleeh. The Anti-Nociceptive Potential of Tulathromycin against Chemically and Thermally Induced Pain in Mice. *Pharmaceutics* 2021, 13(8), 1247; https://doi.org/10.3390/pharmaceutics13081247 IF: 6.525, Q1-JIF%: 86.20
29. **Mohamed Elbadawy***, Mohamed Aboubakr, Amira Abugomaa. Pharmacokinetics of tylvalosin in broiler turkeys (*Meleagris gallopavo*) after single intravenous and oral administration. *Frontiers in Veterinary Science*, Vol 6: Article 355. 2019, https://doi.org/10.3389/fvets.2019.00355 IF: 3.412 Q1, JIF%: 94.18
30. **Mohamed Elbadawy*,** Hussein M. El-Husseiny, Mossad Gamaleddin Ahmed Elsayed, Ashraf A. Elkomy, Amira Abugomaa. The Antinociceptive and Antipyretic Potentials of Cefepime. *Advances in Animal and Veterinary Sciences*, 2021*,* 9(12): 2132-2138. http://dx.doi.org/10.17582/journal.aavs/2021/9.12.2132.2138 Q3 Journal.
31. **Mohamed Elbadawy**, Yusuke Ishihara, Mohamed Aboubakr, Kazuaki Sasaki and Minoru Shimoda. **(**2016**)**. Oral Absorption Profiles of Sulfonamides in Shiba Goats: a Comparison among Sulfadimidine, Sulfadiazine and Sulphanilamide. *Journal of Veterinary Medical Science,* 78(6): 1025–1029. DOI: 10.1292/jvms.15-0601 IF: 1.276 Q2, JIF%: 50.3
32. **Mohamed Elbadawy**, Kazuaki Sasaki, Yuji Miyazaki, Mohamed Aboubakr, Waleed Fathy Khalil and Minoru Shimoda. **(**2015**)**. Oral Pharmacokinetics of Acetaminophen to Evaluate Gastric Emptying Profiles of Shiba Goats. *Journal of Veterinary Medical Science,* 77(10): 1331–1334. DOI: 10.1292/jvms.15-0104 IF: 1.276 Q2, JIF%: 50.3
33. **Mohamed Elbadawy**, Takara Sakiyama, Rania Abohatab, Kazuaki Sasaki and Minoru Shimoda. **(**2015**)**. Oral Pharmacokinetics of the Acidic Drugs, Diclofenac and Sulfamonomethoxine in Male Shiba Goats. *Journal of Veterinary Medical Science,* 77(1): 21–26. DOI: 10.1292/jvms.14-0261 IF: 1.276 Q2, JIF%: 50.3
34. Amira Abugomaa and **Mohamed Elbadawy***. Olive leaf extract modulates glycerol-induced kidney and liver damage in rats. *Environmental Science and Pollution Research,* 2020 April. 27, 22100–22111. https://doi.org/10.1007/s11356-020-08371-6 IF: 4.223, Q2, JIF%: 66.971
35. An updated insight on testicular hemodynamics: Environmental, physiological, and technical perspectives in farm animals. *Veterinary Research Communications*.

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Mohamed Elbadawy*. (2013**)**. Some Pharmacodynamic Aspects of Cefepime. *Journal of Pharmaceutics*, Vol. 2013, Article ID 381910, 10 pages. http://dx.doi.org/10.1155/2013/381910 Q3 JIF%: 34.59

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53. Ashraf Abdelhakim Elkomy; ,,,, Zeinab Roushdy Mohamed; **Mohamed Elbadawy,** Pharmacokinetics and tissue residues of tilmicosin in normal and experimentally *Mycoplasma gallisepticum*-infected broiler chickens. *Benha Veterinary Medical Journal*, 2019, 34 (3): 188-205. DOI: 10.21608/BVMJ.2018.44745
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- **Book Chapters**

68. Hussein M. El-Husseiny, Eman A. Mady, Yasmine Radwan, Maria Nagy, Amira Abugomaa, **Mohamed Elbadawy** & Ryou Tanaka (11.2022). Hybrid Biodegradable Polymeric Scaffolds for Cardiac Tissue Engineering. In: Ali, G.A.M., Makhlouf, A.S.H. (eds) *Handbook of Biodegradable Materials*. Springer, Cham. https://doi.org/10.1007/978-3-030-83783-9_48-1

- **Articles Under Review**

1. Establishment of an experimental model of canine malignant mesothelioma organoid culture using a three-dimensional culture method. Yomogi Sato, **Mohamed Elbadawy***,,,,,Amira Abugomaa,,,,,Tatsuya Usui*, Kazuaki Sasaki. *Biomedicine & Pharmacotherapy*, Jan **2023**, Under review_R1
2. **Mohamed Elbadawy*,** Kiwamu Tanabe, Haru Yamamoto, Yusuke Ishihara, Maria Mochizuki, Amira Abugomaa, Hideyuki Yamawaki, Masahiro Kaneda, Tatsuya Usui*, Kazuaki Sasaki. Evaluation of the efficacy of mitochondrial fission inhibitor (Mdivi-1) using non-alcoholic steatohepatitis (NASH) liver organoids. *Biomedicine & Pharmacotherapy*, March **2023**, With Editor
3. Mona Salem, Amal Awad*, Nehal Ahmed Talaat Nouh, Dalal nasser binjawhar4, Mohamed M. Abdel-Daim, **Mohamed Elbadawy**, Gamal Younis. Dissemination of mcr-1 and β-lactamase genes among Pseudomonas aeruginosa: Molecular characterization of MDR strains in broiler chicks and dead-in-shell chicks infections. **Antibiotics**. March **2023**, Under review_R2

- Saiga, F, **Mohamed Elbadawy***, Amira Abugomaa, Tatsuya Usui, Kazuaki Sasaki*, Shimoda M. Oral Pharmacokinetics of sulfadiazine and sulfamonomethoxine in female Holstein milking cows. Under review_R2

- **Manuscripts in Preparation**

4. **Mohamed Elbadawy***, Tatsuya Usui, Kazuaki Sasaki. Establishment of feline mammary tumor organoid culture method. 95% accomplished.
5. **Mohamed Elbadawy**, Tatsuya Usui, Kazuaki Sasaki. Establishment of dog lung

cancer organoid culture method. **100% accomplished. Soon Will be submitted.**

6. **Mohamed Elbadawy**, Tatsuya Usui, Kazuaki Sasaki. Establishment of Feline colorectal cancer organoid culture method. **85% accomplished**.
7. **Mohamed Elbadawy**, Tatsuya Usui, Kazuaki Sasaki. Establishment of canine anal gland cancer organoid culture method. **65% accomplished**.
8. **Mohamed Elbadawy**, Tatsuya Usui, Kazuaki Sasaki. Establishment of canine nose tumor organoid culture method. **60% accomplished**.
9. **Mohamed Elbadawy**, Amany Elmeleeh, and Samar Saber. Protective effect of Garlic Oil against Embryotoxic and Teratogenic Effects of Clarithromycin in Pregnant Female Albino Rats. **60% accomplished**.
10. **Mohamed Elbadawy**, Amany Elmeleeh, and Samar Saber. Hepatoprotective Potentials of Alfa Lipoic Acid Compared to Sylmarin against Cisplatin Induced Hepatotoxicity in Rats. **60% accomplished**.

- **International Projects Reviewing**

1. Call for Proposals "Development and integration of new experimental models relevant for cancer research: Optimization of the rule 3 R" organized by **ITMO Cancer of the French National Alliance for Life and Health Sciences (AVIESAN) jointly with the French National Cancer Institute (INCa)**, **2018 call**. **Title of the project:** Patient-derived avatars to study and treat colorectal and prostate cancers., PI: JAULIN Fanny.
2. Call for Proposals "Development and integration of new experimental models relevant for cancer research: Optimization of the rule 3 R " organized by **ITMO Cancer of the French National Alliance for Life and Health Sciences (AVIESAN)**. Inserm (French National Institute for biomedical research) INSERM, **2019 call**. **Title of the project:** Companion dog with spontaneous cancer as ex vivo and in vivo ethical, non-experimental model for human drugs development PI: DUHAMEL Marie - Co-PI: TIERNY Domminique.
3. Call for Proposals "Development and integration of new experimental models relevant for cancer research: Optimization of the rule 3 R " organized by **ITMO Cancer of the French National Alliance for Life and Health Sciences (AVIESAN)**. Inserm (French National Institute for biomedical research) INSERM, **2019 call**. **Title of the project:** Patient-derived organoids to study and treat colorectal cancer. PI: JAULIN Fanny. Co-PI: MALKA David.

4. Call for Proposals "Development and integration of new experimental models relevant for cancer research: Optimization of the rule 3 R " organized by **ITMO Cancer of the French National Alliance for Life and Health Sciences (AVIESAN)**. Inserm (French National Institute for biomedical research) INSERM, **2019 call**. **Title of the project:** Understanding the impact of extracellular matrix stiffness on intestinal epithelium and colon cancer initiation: a new tool makes it possible. PI: FERRAND AUDREY. Co-PI: FITREMANN Juliette.
5. **Science Fund of the Republic of Serbia**, Project title (Development and pro-health evaluation of novel pharmaceutical products with dandelion and lemon balm extracts). **2021** call.
6. **Science Fund of the Republic of Serbia**, Project title (New prognostic and theranostic potential of enzymes involved in co-transcriptional cleavage and co-translational modification in prostate, colorectal, and breast cancer tissue). **2021** call.
7. **Science Fund of the Republic of Serbia**, Project title (Human Colon Cancer-Microbiome Relation – In Vitro and Colon on-a-Chip Metastatic Potential Prediction). **2021** call.
8. **Science Fund of the Republic of Serbia**, Project title (Dual targeting of lysosomes and energy metabolism as a novel anti-melanoma strategy). **2021** call.
9. **Science Fund of the Republic of Serbia**, Project title (Functional diagnostics in non-small cell lung carcinoma – a new concept for the improvement of personalized therapy in Serbian patients). **2021** call.
10. **Science Fund of the Republic of Serbia**, Project title (Multimodal control of chronic pain and comorbidities with atypical analgesics – “two birds with one stone”). **2021** call.
11. **Science Fund of the Republic of Serbia**, Project title (Single Needle Localized Electrochemotherapy). **2021** call.
12. **Science Fund of the Republic of Serbia**, Project title (Bioactive Peptides In Cancer Treatment Through Prevention Of Amyloid Precursor Protein – Death Receptor 6 Interaction). **2021** call.
13. **Science Fund of the Republic of Serbia**, Project title (Personalized therapy with immunosuppressive drugs tacrolimus and mycophenolate mofetil in kidney transplant patients). **2021** call.

- **Peer Reviewing of International publication**

  See the Publons and Web of Science Links:

  https://publons.com/researcher/1639188/mohamed-elbadawy/

- **Patents**

  - ***2021***

1. *Application number*: Patent application 2021-110336

   Inventors: Tatsuya Usui, Tsutomu Omatsu, **Mohammed Elbadawy**

   Title of the invention: Composition for bat tissue organoid culture medium and method for producing bat tissue organoids

   Applicant: Tokyo University of Agriculture and Technology

   Application date: July 1, 2021

2. *Application number*: Patent application 2021-071308

   Inventors: Tatsuya Usui, Kazuaki Sasaki, **Mohammed Elbadawy**, Haru Yamamoto

   Title of Invention: Feline mammary gland tumor organoid medium composition and method for producing feline mammary gland tumor organoids

   Applicant: Tokyo University of Agriculture and Technology

   Application date: April 20, 2021

  - **2020**

3. *Patent number*: JP 2021-145646 A 2021.9.27

   Release date: 27 September 2021

   Application number: Patent application 2020-051580

   Inventors: Tatsuya Usui, Kazuaki Sasaki, **Mohammed Elbadawy**, Yuta Shinohara, Megumi Yamanaka, Kika Hayashi, Yuta Goto

Invention title: Establishment of 2.5D organoid culture model using 3D bladder cancer organoid culture

Applicant: Tokyo University of Agriculture and Technology

Application date: March 23, 2020

- **2019**

4. *Patent* number: JP 2021-99248 A 2021.7.1

   Release date: 1 July 2021

   Application number: Patent application 2019-230780

   Inventors: Tatsuya Usui, Kazuaki Sasaki, **Mohammed Elbadawy**, Yuta Shinohara, Megumi Yamanaka, Kika Hayashi, Yuta Goto

   Title of Invention: Non-alcoholic steatohepatitis marker and its use

   Applicant: Tokyo University of Agriculture and Technology

   Application date: December 20, 2019

- **Thesis Supervision**

PhD Thesis

- Efficacy of lincomycin and bacitracin in broiler chickens infected with clostridium perfringens (2019).

Master Thesis

- Protective effects of propolis against hepatorenal toxicity in rats (2019).
- Some side effects of Amoxicillin and Doxycycline in Rats (2018).
- Pharmacokinetics and Tissue Residues of Tilmicosin in healthy and Experimentally Mycoplasma Gallisepticum-Infected Broiler Chickens (2018).
- Pharmacokinetics and Tissue Residues of Cefadroxil in Healthy and experimentally-infected Broiler Chickens (2019).
- Protective effects of organium on paracetamol induced liver and kidney toxicity in rats (2019).
- Some pharmacological studies of florfenicol and *Hermetia illucens* extract larvae in infected broiler chickens (2020).

- Protective effect of curcumin against amikacin-induced hepato-renal toxicity in rats (2020).
-

- **Memberships**
  - Member of Japanese Pharmacological Society.
  - Member of Japanese Society of Veterinary Science.
  - Member of Egyptian Veterinary Syndicate.
- **Editorships**
  1) Frontiers in Veterinary Science https://www.frontiersin.org/journals/veterinary-science/sections/veterinary-pharmacology-and-toxicology/editors
  2) World Journal of Clinical Oncology https://www.wjgnet.com/2218-4333/about.htm
  3) Cancer Drug Resistance https://cdrjournal.com/editorsYouth/index
  4) Benha Veterinary Medical Journal http://bvmj.journals.ekb.eg/journal/editorial.board#edb5
  5) World Journal of Pharmacology https://www.wjgnet.com/2220-3192/editorialboard.htm
  6) J Clinical Pharmacy https://www.innovationinfo.org/journal/editorial_board_member/Mohamed-Elbadawy-Abdelgayed-Gad-Kewan
  7) Journal of Pharmacology and Translational Research http://www.jresearchvalley.com/journal-of-pharmacology-and-translational-research-editorial-board-jphr.php
  8) Journal of Modern Pharmacology and Pathology https://www.innovationforever.com/aboutjournal/JMPP/EditorialBoardMembers
  9) EC Pharmacology and Toxicology https://www.ecronicon.com/ECPT-EB.php
  10) EC Veterinary Science https://www.ecronicon.com/veterinary-science-editorial-panel.php
  11) SCIREA Journal of Animal Husbandry and Veterinary Medicine http://www.sciclinicalmedicine.org/journal/EditorialBoard?JournalID=23000#9727
  12) Quarterly Journal of Pharmacology and Pharmaceutical Studies [JPPS] https://researchinfotext.com/journal-details/Quarterly-Journal-of-Pharmacology-and-Pharmaceutical-Studies--JPPS-

13) Current Trends in Veterinary and Dairy Research
https://springfieldpublishers.com/dairy-veterinary-science-journal/editorial-board.php
14) Archives of Cancer Biology and Therapy
https://www.scientificarchives.com/editor/mohamed-elbadawy
15) Annals of Pharmacology and Toxicology
http://www.remedypublications.com/annals-of-pharmacology-and-toxicology-editorial-board.php
16) Journal of Clinical Oncology Research and Reports
https://www.auctoresonline.org/journals/clinical-oncology-research-and-reports/editorial-board
17) Journal of Pharmaceutical Research and Development.
https://unisciencepub.com/editorial-board-journal-of-pharmaceutical-research-and-development/

- **Research Links**
  - http://www.bu.edu.eg/staff/mohamedabdelgayed1
  - https://www.scopus.com/authid/detail.uri?authorId=56009849900
  - https://publons.com/researcher/1639188/mohamed-elbadawy/
  - https://scholar.google.co.jp/citations?user=PaYurOIAAAAJ&hl=en
  - http://orcid.org/0000-0001-9368-1535
  - https://www.researchgate.net/profile/Mohamed_Elbadawy
  - https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/54768185/?sort=date&direction=ascending
  - https://www.linkedin.com/in/mohamed-elbadawy-7ba3b670/
  - https://www.mendeley.com/profiles/mohamed-elbadawy3/
  - https://loop.frontiersin.org/people/604547/overview

- **Computer Skills and IT**

Place	Course	Date
1. European Computer Driving Licence Foundation	ICDL	7 / 5/ 2009
2. The central unit of ICT Training, Benha University, Egypt	Information and Communication	From 10 to 16 March 2008 (12 h)
3. The central unit of ICT Training, Benha University, Egypt	Presentations	From 8 to 14 March 2008 (18 h)
4. The central unit of ICT Training, Benha University, Egypt	Concepts of IT	From 26 Feb. to 3 March 2008 (18 h)
5. The central unit of ICT Training, Benha	Using Computer and	From 1 to 7 March 2008 (24 h)

University, Egypt	Managing Files	
6. The central unit of ICT Training, Benha University, Egypt.	Word Processing	From 4 to 10 March 2008 (24 h)
7. Middle East Institute for Computer Services	Windows	January 2006
8. Middle East Institute for Computer Services	PowerPoint & Word	Feb. 2006

- **Training Courses, Workshops, and Professional Development**

Site	Workshop	Date(s)
1. Faculty of Veterinary Medicine, Benha University, Egypt.	Experimental Design in Vet. Medicine	Monday 3/3/2008 (3 h)
2. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Legal and financial aspects	From 7 to 9 April 2008 (15 h)
3. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Professional Behaviours	From 1 to 3 April 2008 (15 h)
4. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Quality standards in the teaching process	From 17 to 19 March 2008 (15 h)
5. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Use of technology in teaching	From 8 to 10 January 2008 (15 h)
6. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Professional ethics	From 28 to 30 August 2006 (15 h)
7. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Thinking Skills	From 19 to 21 June 2006 (15 h)
8. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Effective teaching	From 12 to 15 June 2006 (20 h)
9. Faculty and leadership Development Project (FLDP) Benha University, Egypt.	Methods of scientific researches	From 22 to 25 May 2006 (20 h)
10. Benha University, Egypt.	Teaching for higher academic performance	From 3 to 15 November 2007 (12 days Five hours daily)

- **Languages**
  - English: Excellent (TOEFL iBT score (81).
  - Japanese language: Good
  - Native Language: Arabic
- **Reference Professors**

1- Prof. Dr. Minoru Shimoda, my Ph.D. Supervisor in Japan.

Professor Emeritus of Laboratory of Pharmacology,

Department of Veterinary Medicine, Faculty of Agriculture,
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2- Prof. Dr. Ashraf Elkomy
Faculty of Vet Medicine, Benha University, Egypt.
Professor and Head of the Pharmacology Department,
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3- Prof. Dr. Mohamed Ghanem
Former Dean, Faculty of Vet Medicine, Benha University, Egypt.
Professor of Veterinary Internal Medicine,
A member of the Higher Committee of World University Ranking, International Certified Professional Trainer (IBCT),
Tel: +2 2013 2461411 cell: 002 2012 3565658
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4- Prof. Dr. Kazuaki Sasaki, my Ph.D. Co-supervisor in Japan.
Professor and Head of Laboratory of Pharmacology,
Department of Veterinary Medicine, Faculty of Agriculture,
Tokyo University of Agriculture and Technology
Email: ms@cc.tuat.ac.jp

5- Prof. Dr. Usui Tatsuya, my JSPS fellowship Supervisor in Japan.
Associate Professor of Laboratory of Pharmacology,
Department of Veterinary Medicine, Faculty of Agriculture,
Tokyo University of Agriculture and Technology
Email: fu7085@go.tuat.ac.jp

6- Prof. Dr. Gen Watanabe, D.V.M, Ph.D.,
Professor and Head of Veterinary Physiology,
Department of Veterinary Medicine, Faculty of Agriculture,
Tokyo University of Agriculture and Technology
Email: gen@cc.tuat.ac.jp

7- Prof. Dr. Mohamed Abusalem
Former Dean of the Faculty of Vet. Medicine, Benha University, Egypt
Professor of Forensic Medicine and Toxicology
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