

# MOHAMED FARGHALI

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Food Hygiene, Obihiro University of  
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## Personal statment

### Education: 3/2011 – present

Accomplished University Animal Hygiene Lecturer successful at teaching both graduate and undergraduate students for 7 years of professional and teaching experience.

Animal Hygiene Lectures are given to challenge students to expand their knowledge and move beyond the basics of the subject matter to a deeper understanding of the principles and potential of their future field.

### Research

2013 – PRESENT

Expert in nanotechnology synthesis and application in different environmental fields.

Expert in biogas production via anaerobic digestion (AD) that become a fundamental part of the economy, aiming to recycle nutrients, reduce greenhouse gas emissions, and enhance bioenergy yield.



## Employment history

6/ 2018 – present

**Researcher / Animal and Food Hygiene Department, Obihiro university of agriculture and veterinary medicine, Hokkaido, Japan.**

### Assistant Lecturer

2015 / present

Animal hygiene department, Faculty of Veterinary Medicine, Assiut University, Egypt.

**Demonstrator / Animal and Poultry Hygiene., Animal hygiene department, Faculty of Veterinary Medicine, Assiut University, Egypt (2011 – 2015)**



## Education & Qualifications

**BVSc** | Faculty of Veterinary Medicine, Assiut University, | Assiut, Egypt  
2003 – 2009

(Five years undergraduate studies of veterinary science).

**MVSc** | Faculty of Veterinary Medicine, Assiut University, | Assiut, Egypt  
2012 – 2015

Thesis Title: **Effect of Silver Nanoparticles on Bacterial Contaminants of Different Water Sources.**

## AFFILIATIONS

- Department of Animal Hygiene, Faculty of Veterinary Medicine, Assiut University.
- Graduate School of Animal and Food Hygiene, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Hokkaido, 080-8555, Japan.

## Membership & Organization

Participate at the 6th international conference for Development and Environmental in the Arab world 2011.

- A member of Egyptian society of cattle diseases.
- Participate in Materials science and Nanotechnology workshop that held at faculty of Science, Assiut University, in 31-3-2012.
- Organized member at the 16th Veterinary Medicine Conference, 30 Nov- 2Dec. 2014.

## Language known

Arabic: Mother language

English: Fluent

Japanese: Level 1

## References:

References are available upon request

## Publications

- Reem Dosoky, Saber Kotb and **Mohamed Farghali** “Bactericidal efficiency of Silver nanoparticle against water contaminants isolated from fish farms water with special reference of some physicochemical parameter of water” *Journal of American Science* 2015;11(4) 68-76.
- Reem Dosoky, Saber Kotb and **Mohamed Farghali** “Efficiency of silver nanoparticles against bacterial contaminants isolated from surface and ground water in Egypt” *J Adv Vet Anim Res.* 2015; 2(2).
- Mahmoud, M. A., Abdel-Mohsein, H. S., & **Farghali, M. R.** Antioxidant properties of Chinese propolis in Ross broilers exposed to heat stress in Egypt. *Open Journal of Veterinary Medicine*, 2015; 5(09), 197.
- Usama T. Mahmoud, Mohamed R. **Fahmey**, Mootz A. Abdel- Rahman, Madeha Hosney A. Darwish “Effect of Propolis Supplementation on Serum Calcium, Phosphorus and Proteins Concentrations in Heat Stressed Broilers” *Journal of Advanced Veterinary Research.* Volume 4, Issue 3 (2014); 117-122.
- Hassan, D. M., & **Farghali, M. R.** Adsorption of silver nanoparticles from aqueous solution by multiwalled carbon nanotubes. *Advances in Nanoparticles*, 2017; 6(02), 22.
- Abdelhakiem, M. A. H., Abdelbaset, A. E., & **Farghali, M. R. F.** Effect of four irrigation solutions on the intraocular pressure and total bacterial count of the normal eye in dogs. *Journal of Advanced Veterinary Research*, 2017; 7(4), 120-124.
- Hassan, Dalia., **Farghali M.R.** Cyanide Pollution in Different Water Sources in Assiut, Egypt: Levels, Distributions and Health Risk Assessment. *Res. J. Environ. Sci.* 2018; 12, 213–219.
- **Farghali, M.**, Andriamanohiarisoamanana, F.J., Ahmed, M.M., Kotb, S., Yamashiro, T., Iwasaki, M., Umetsu, K. Impacts of iron oxide and titanium dioxide nanoparticles on biogas production: Hydrogen sulfide mitigation, process stability, and prospective challenges. *J. Environ. Manage.* 2019; 240, 160–167.
- Hassan, D., **Farghali, M.**, Eldeek, H., Gaber, M., Elossily, N., & Ismail, T. (2019). Antiprotozoal activity of silver nanoparticles against *Cryptosporidium parvum* oocysts: New insights on their feasibility as a water disinfectant. *Journal of microbiological methods*, 165, 105698.
- **Mohamed Farghali**, Maejima Mayumi, Kuramoto Syo, Aoki Satoshi, Yasui Seiichi, Sayoko Takashima, Hijiri Ono, Yuhendra AP, Takak Yamashiro, Moustafa M. Ahmed, Saber Kotb, Masahiro Iwasaki Kazutaka Umetsu, Prospects of Biogas Production From The Manure of Dairy Cattle Fed on Iron-supplemented Ration, Postharvest/Food Technology and Process Engineering (5th), international Joint Conference on JSAM and SASJ, and CIGR VI Technical Symposium joining FWFNWG and FSWG Workshops, Hokkaido University, Japan. Poster presentation, September, 2019.
- **Farghali, M.**, Andriamanohiarisoamanana, F. J., Ahmed, M. M., Kotb, S., Yamamoto, Y., Iwasaki, M., ... & Umetsu, K. (2020). Prospects for biogas production and H<sub>2</sub>S control from the anaerobic digestion of cattle manure: The influence of microscale waste iron powder and iron oxide nanoparticles. *Waste Management*, 101, 141-149.
- **Farghali, M.**, Mayumi, M., Syo, K., Satoshi, A., Seiichi, Y., Takashima, S., Ono, H., AP, Y., Yamashiro, T., Ahmed, M.M., Kotb, S., Iwasaki, M., Ihara, I., Umetsu, K., (2020). Potential of biogas production from manure of dairy cattle fed on natural soil supplement rich in iron under batch and semi-continuous anaerobic digestion. *Bioresour. Technol.* 309, 123298.