

**ESSAM M. ABDELFAH**  
**BVetMed, MVetMed, PhD**

Postdoctoral Scholar in Department of Animal Science, University of California Davis  
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**EDUCATION**

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PhD	2014	Faculty of Veterinary Medicine, Benha University, Egypt in cooperation with Department of Animal Science, College of Agriculture, Purdue University, USA <i>Advisors:</i> Susan D. Eicher, Ph.D., and M. M. Karousa, Ph.D. <i>Dissertation title:</i> Behavior and performance of veal calves in relation to group housing
MVetMed	2008	Faculty of Veterinary Medicine, Benha University, Egypt. <i>Advisor:</i> Mohamed M. Karousa Thesis title: Effect of some managerial factors on behavior and performance of quail
BVetMed	2004	Faculty of Veterinary Medicine, Benha University, Egypt

**PROFESSIONAL EXPERIENCE**

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2015-Present	Postdoctoral scholar	Department of Animal Science, College of Agriculture at University of California Davis, USA.
2014–2015	Lecturer	Department of Animal Hygiene, Behavior and Management, Faculty of Veterinary Medicine, Benha University, Egypt.
	Veterinarian (part- time job)	Private Veterinary Clinic, Giza, Egypt Care for the health of animals and work to improve public health. Diagnose and treat medical conditions and diseases of domestic animals (horses, donkeys, sheep and goats, dogs, cats and domestic birds).
2012-2014	Research Scholar	Department of Animal Science, College of Agriculture at Purdue University and USDA- Livestock Behavior Research Unit, USA.
2008-2014	Associate Lecturer	Department of Animal Hygiene, Behavior and Management, Faculty of Veterinary Medicine, Benha University, Egypt.
	Veterinarian	Private Veterinary Clinic, Giza, Egypt.
2005-2008	Teaching Assistant	Department of Animal Hygiene, Behavior and Management, Faculty of Veterinary Medicine, Benha University, Egypt.

	Veterinarian	Private Veterinary Clinic, Giza, Egypt.
2003-2005	Volunteer veterinarian	The Society for the Protection and Welfare of Donkeys & Mules in Egypt (SPWDME). Visited more than 50 brick kilns in the south of Cairo, and several villages in the Nile delta to treat donkeys from common problems include hoof abscesses, dental problems, cases of tetanus, and eye infections. Participated in hoof care training and awareness program. Also, training the local government vets and farriers.

## PUBLICATIONS

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### *Published Manuscripts*

- E. M. Abdelfattah**, M. M. Karousa, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2015. Acute phase cytokines, TAC1, and Toll-Like receptor4 mRNA expression and health associated with group size in veal calves. *Veterinary Immunology and Immunopathology*. 164 (2015) 118–126.
- E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2013. Effect of group size on behavior, health, production, and welfare of veal calves. *J. Anim. Sci.* 91:5455-5465.
- E. M. Abdelfattah**, M. Karousa, E. Mahmoud, S. EL-Laithy, G. El-Gendi., and N. Eissa. 2013. Effect of Cage Floor Type on Behavior and Performance of Growing Rabbits. *Journal of Veterinary Advances* 3 (2):34-42.

### *Under-review Manuscripts*

- E. M. Abdelfattah**, M. M. Karousa, D.C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. *In review*. Effect of age at group housing on behavior, physiology, health and immune status of bull dairy calves during the milk-feeding period. *Journal of Dairy Science*
- E. M. Abdelfattah**, G. Vezzoli, G. Buczkowski, M. M. Makagon. *In review*. The use of essential oils to combat Northern fowl mite (*Ornithonyssus Sylviarum*) in poultry houses. *Medical and Veterinary Entomology*.

### *Conference Abstracts*

- E. M. Abdelfattah**, G. Vezzoli, G. Buczkowski, M. M. Makagon. 2016. Essential Oils: Effects of application rate on their potential for combating northern fowl mite infestations. UC Davis Postdoctoral Research Symposium - 18 May 2016 - UC Davis Conference Center.
- E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2013. Group size alters posture, maintenance, oral, locomotor and social behaviors of veal calves. *J. Anim. Sci.* Vol. 91. E-Suppl. 2/J. Dairy Sci. Vol. 96. E-Suppl.1.
- E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2013. Group size of veal calves does not affect production, physiological, or hematological indicators of welfare and has transient effects on health. *Anim. Sci.* Vol. 91. E-Suppl. 2/J. Dairy Sci. Vol. 96. E-Suppl.1.

**E. M. Abdelfattah**, M. M. Karousa, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2013. Acute phase cytokine, substance-P, and TLR4 association with housing stress and health in veal calves. 2013-A-67-CRWAD.

*Published book*

**E. M. Abdelfattah**, M. M. Karousa, G. El-Gendi. 2012. Effect of some managerial factors on behavior and performance of quail: Behavior, Management, and Production of Japanese Quail (*Coturnix Japonica*). Lambert Academic Publishing. ISBN 978-8484-9605-1.

Non-Refereed Publication

**E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2015. Does group size matter? *Hoard's Dairyman Magazine*. June: 410.

## SCHOLARSHIP AND HONOR

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2016	Career Development Officer, UCD Postdoctoral Scholars Association University of California, Davis
2016	The 2016 Bay Area Postdocs: Workshop on Scientific Teaching. San Francisco State University.
2016	FUTURE Certificate Program. University of California Davis.
2012	The junior scientist scholarship- The ministry of higher education, Egypt. Award Value (66,000 USD).

## RESEARCH EXPERIENCE

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### Postdoctoral Research

2016	Department of Animal Science, University of California, Davis, CA Grant proposal submitted to US Poultry titled: Effect of dietary supplementation of thyme essential oil on the immunity, performance, and gut morphology of broiler breeders and their chicks.
2016	Department of Animal Science, University of California, Davis, CA Principal Investigator: Maja Makagon, Ph.D. Research Focus: Investigated the efficacy of essential oils as an alternative tool to control mite in poultry.
2015	Department of Animal Sciences, Purdue University, West Lafayette, IN Principal Investigator: Maja Makagon, Ph.D. Research Focus: studied the thermal perches as cooling devices for reducing heat stress in caged laying hens.

### Doctoral Dissertation Research

- 2009-2014 Department of Animal Hygiene, Behavior and Management, Benha University, Egypt and Department of Animal Sciences, Purdue University, IN.  
*Dissertation Committee:* Susan D. Eicher, Ph.D., Mohamed M. Karousa, Ph.D. and G. M. El Gendi, Ph.D.  
*Research Focus:* Evaluated the effect of group size and age at grouping on behavior, welfare, immunity, and performance of dairy bull calves and veal calves.
- 2008-2009 Department of Animal Hygiene, Behavior and Management, Benha University, Egypt.  
*Advisor:* Mohamed M. Karousa, Ph.D.  
*Research focus:* Investigated the effect of cage floor type (wire, plastic, and rubber) on behavior, welfare, and performance of growing rabbits.

### Master Thesis Research

- 2006-2008 Department of Animal Hygiene, Behavior and Management, Faculty of Veterinary Medicine, Benha University, Egypt.  
*Advisors:* M. M. Karousa, Ph.D., G. M. El Gendi, Ph.D.

### TEACHING EXPERIENCE

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**Lecturer**, Faculty of Veterinary Medicine, Benha University, Egypt

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|------------------------------|---|
| Courses Taught               | Introduction to Animal Behavior (F14, F15)<br>Behavior and Management of Dogs (S15)<br>Behavior and Management of Cats (S15)<br>Behavior and Management of Quail (S14, S15)<br>Restraint and Handling of Domestic Animals (S14, F15, S15) |
| Frequency of Meetings        | 60 minutes, 2 days/week   |
| Enrollment & student Profile | 300-350 DVM students; 1 <sup>st</sup> - 2 <sup>nd</sup> year students   |
| Teaching Responsibilities    | As a lecturer, I gave lectures weekly, held office hours, supervised TA for practical sessions. I helped write, proctor, and grade exams. I managed online content for the courses and responded to student's questions and discussions.  |

**Volunteer Teaching Assistant**, Purdue University, West Lafayette, IN

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|---------------------------|---|
| Course Taught             | Animal welfare (ANSC 40400; F13)  |
| Course Description        | It was a multi-disciplinary course that introduces students to the field of animal welfare science and the ethics of animal use. It was upper division course designed for students with junior or senior standing. |
| Teaching Responsibilities | As a TA, I supervised the students during roundtable discussions in lectures, led weekly discussions, and graded lab reports.   |

**Assistant Lecturer**, Faculty of Veterinary Medicine, Benha University, Egypt

2006-2012

Handling and securing of domestic animals  
Identification of farm animals  
Administration of medicine to domestic animals  
Casting of farm animals  
Grooming of domestic animals  
Body points of farm animals  
Signs of health in domestic animals  
Behavioral disorders of domestic animals

**Volunteer Veterinarian**, Society for the Protection and Welfare of Donkeys & Mules in Egypt

2003

Instructed Donkey welfare to the local government vets farriers and animal owners.

## **PROFESSIONAL DEVELOPMENT**

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05/24- 05/26/2016 Interdisciplinary Instructions: Designing a Course, creating a syllabus workshop

05/20/2016 Workshop about writing an effective research proposal. UC Davis

04/20/2016 The Benefits of ORCID to Individual Researchers, Authors, and Creators. UC Davis Library.

04/13/2016 The Office of Research Expo 2016. UC Davis

01/12- 03/08/2016 FUTURE Certificate Program. University of California Davis.

01/23/ 2016 UC Davis Goat Day (Designing a Healthy Herd). UC Davis Conference Center.

11/6- 11/08/2015 UC Davis Donkey Welfare Symposium at Gladys Valley Hall and the Cole Animal Facility, UC Davis School of Veterinary Medicine. University of California, Davis.

07/14/2015 Completion of UC Compliance Briefing: Ethical values and conduct.

6/29/2015 UC Laboratory Safety Fundamentals, University of California.

6/29/2015 Animal care and Use 101, University of California.

01/19/2014 Self-evaluation and external reviewing, Benha University, Egypt.

2013 Animal Welfare Judging & Assessment team, Centre for Animal Welfare, Purdue University.

2012 Lab work safety, USDA, Behavior Research Unit, West Lafayette, IN.

## PRESENTATIONS

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### *Invited Presentations*

- E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. November 2015. Effect of group size on behavior, health, immunity, and performance of veal calves. Center for Animal Welfare at Department of Animal Science, University of California – Davis.
- E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. June 2013. Effect of group size on behavior, health, production, and welfare of veal calves. Strauss Feeds Inc., North Manchester, IN.

### *Scientific Presentations*

- E. M. Abdelfattah**, G. Vezzoli, G. Buczkowski, M. M. Makagon. 2016. Essential Oils: Effects of application rate on their potential for combating northern fowl mite infestations. UC Davis Postdoctoral Research Symposium - 18 May 2016 - UC Davis Conference Center.
- E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2013. Group size alters postures, and maintenance, oral, locomotor and social behaviors of veal calves. The 2013 Joint ADSA-ASAS Annual Meeting. Indianapolis, IN.
- E. M. Abdelfattah**, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. 2013. Group size of veal calves does not affect production, physiological, or hematological indicators of welfare and has transient effects on health. The 2013 Joint ADSA-ASAS Annual Meeting. Indianapolis, IN.
- E. M. Abdelfattah**, M. M. Karousa, M. M. Schutz, D. C. Lay Jr., J. N. Marchant-Forde, S. D. Eicher. December, 2013. Acute phase cytokine, substance-P, and TLR4 association with housing stress and health in veal calves. Annual Meeting Of The Conference Of Research Workers In Animal Diseases. Chicago, IL.

### *Guest Lectures*

- 'Importance of local Egyptian breeds of chickens.' Ministry of Agriculture. Qalyubia Province, Egypt. March 19, 2014.
- 'Welfare of veal calves.' Animal welfare (ANSC 40400). Purdue University, West Lafayette IN. October 21, 2013.
- 'Breeds of Cattle and Buffaloes in Egypt.' Purdue Dairy Club. April 2012.

## SERVICE EXPERIENCE

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- 2017 A reviewer for Poultry Science Association
- 2015 A reviewer for the Medical Research Archives (MRA).
- 2012-2013 Secretary of the Society for the Protection and Welfare of Donkeys & Mules in Egypt (SPWDME).
- 2008-2011 Member of quality assurance program in Faculty of Veterinary Medicine, Benha University, Egypt.

## SOCIETY AFFILIATIONS

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National Postdoctoral Association, USA  
American Dairy Science Association (ADSA), USA.  
The Society for the Protection and Welfare of Donkeys & Mules in Egypt (SPWDME).  
Society for Animal Management and Welfare, Cairo University, Egypt.  
Egyptian Rabbit Society, Zagazig University, Egypt.

## REFERENCES

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- Maja Makagon, Ph.D. Assistant Professor, Applied Animal Behavior  
Department of Animal Science, University of California, Davis  
1255 Meyer Hall, One Shields Avenue, Davis CA 95616  
ph.: 530.752.9419; e-mail: [mmakagon@ucdavis.edu](mailto:mmakagon@ucdavis.edu)  
website: makagon.faculty.ucdavis.edu
- Susan Eicher, Ph.D. Livestock Behavior Research Unit, USDA-ARS  
Department of Animal Science, Purdue University  
West Lafayette, IN 47907  
Phone: (765) 496-3665  
[Susan.Eicher@ars.usda.gov](mailto:Susan.Eicher@ars.usda.gov)
- Michael M. Schutz, Ph.D. Associate Head, Professor of Animal Sciences and  
Indiana State Dairy Extension Specialist  
Department of Animal Sciences  
Purdue University  
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