



**ZAGAZIG UNIVERSITY
FACULTY OF AGRICULTURE**

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Curriculum Vitae

Personal information:

Name	Dr. Mohamed Ezzat Mohamed Abd El-Hack			  <p>جامعة الزقازيق ZAGAZIG UNIVERSITY FOUNDED IN 1974</p>
Telephones	+2 010 66896449	or	+2 011 50612366	
E- mails	m.ezzat@zu.edu.eg magivvv2006@yahoo.com dr.mohamed.e.abdalhaq@gmail.com			
Web page	http://www.meelhweny.faculty.zu.edu.eg/			
Researchgate	https://www.researchgate.net/profile/Mohamed_Ezzat3/			
Researcherid	http://www.researcherid.com/rid/P-2065-2014			
Livedna	http://livedna.org/20.7210			
ORCID ID	orcid.org/0000-0002-2831-8534			
Scopus	Scopus Author ID: 56032305800			
Google scholar	https://scholar.google.com/eg/citations?user=QwX7dLsAA&hl=ar			
Nationality	Egyptian	Passport number	A02714411	
Date of birth	24 th May 1986.			
Marital status	Married and have a son and a daughter.			

Education:

2015	PhD in Agricultural sciences (Poultry Production). Poultry Department, Faculty of Agriculture, Zagazig University, Zagazig, Egypt.
Feb 2008 – May 2011	M.Sc. in Agricultural sciences (Poultry Production). Poultry Department, Faculty of Agriculture, Zagazig University, Zagazig, Egypt.
Sep 2003 – Jul 2007	B.Sc. in Agricultural sciences (Poultry). Poultry Department, Faculty of Agriculture, Zagazig University, Zagazig, Egypt

Thesis and Research Experience:

Jun 2013 – 2016	Enzymes drying to be used in low-cost animal fodder production for existing biotechnology company (PhD). Zagazig University, Department of Poultry. Zagazig, Egypt .
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Apr 2012 – Oct 2012	Improvement of Ostrich production under Egyptian conditions. (Research project) . Zagazig University, Department of Poultry. Zagazig, Egypt .
Jan 2012 – Apr 2012	Standardized ileal amino acid digestibility of meat and bone meal and soybean meal in laying hens and broilers. (Research project) . Purdue University, Department of Animal Sciences. West Lafayette, USA .
Oct 2011- Sep 2012	Protein and total sulfur amino acids relationship effect on performance and some blood parameters of laying hens. (Research project) . Zagazig University, Department of Poultry. Zagazig, Egypt .
Jul 2008 – Sep 2008	Physiological and Immunological Responses of Some Antioxidants on Heat-Stressed Laying Hens (MSc) . Zagazig University, Department of Poultry, Zagazig, Egypt.

Occupation or Position:

2015	Lecturer in Poultry Department, Faculty of Agriculture, Zagazig University.
Aug 2011-present	Assistant lecturer in Poultry Department, Faculty of Agriculture, Zagazig University.
Nov 2007- Aug 2011	Demonstrator in Poultry Department, Faculty of Agriculture, Zagazig University.

Grants, Scholarships and Awards:

June 2015	A ward: from Zagazig University for international publishing .
Apr 2015	A ward: from Alltech Young Scientist, USA for being the 1 st in the Egypt Graduate Competition in the Alltech Young Scientist Program 2014 – 2015.
Jun 2013	Grant: PhD fund from The Academy of Scientific Research and Technology, Egyptian Ministry of Scientific Research.
Apr 2012	Scholarship: Visiting scholar in Animal Science Department, College of Agriculture, Purdue University, USA.

Membership:

Jan 2008- now	Egyptian Poultry Science Association (EPSA).
Feb 2008- now	Egyptian Rabbit Science Association (ERSA).
Jan 2015- now	Egyptian Society of Natural Toxins (ESNT).



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Jan 2015- now	International Academy of Biosciences.
Jan 2015- now	The Arab Union for Sustainable Development and the Environment (AUSDE).
May 2015- now	Egyptian Young Academy of science (EYAS).

Journal Publications & books:

• **International publication:**

1	M. Bilal, M. A. Mirza, M. Kaleem, M. Saeed, Md. Reyad- ul-ferdous and M. E. Abd El-Hack (2016). Significant effect of NSP-ase enzyme supplementation in sunflower meal-based diet on the growth and nutrient digestibility in broilers. <i>Journal of Animal Physiology and Animal Nutrition</i> . DOI: 10.1111/jpn.12552.
2	Khalid Mahrose, Mohamed E Abd El-Hack, Mohamed E El-Hindawy, Adel I Attia (2016). Productive Performance of Laying Hens Fed Different Levels of Distillers Dried Grains with Solubles with or without Certain Feed Additives. <i>Iranian Journal of Applied Animal Science</i> (2016) 6(2), 407-413.
3	M. Arif, A. Rehman, M. Saeed, M. E Abd El-Hack, M. Alagawany, H. Abbas, M. A. Arian, S. A. Fazlani, A. I. Hussain, T. Ayaşan (2016). Effect of different processing methods of Pigeon Pea (<i>Cajanus Cajan</i>) on growth performance, carcass traits, blood biochemical and hematological parameters of broiler chickens. Jun 2016 · <i>Turkish Journal of Veterinary and Animal Sciences, In Press</i> .
4	M. E. Abd El-Hack, S. A. Mahgoub, M. Alagawany and E. A. Ashour (2016). Improving productive performance and mitigating harmful emissions from laying hen excreta via feeding on graded levels of corn DDGS with or without <i>Bacillus subtilis</i> probiotic. <i>Journal of Animal Physiology and Animal Nutrition</i> . DOI: 10.1111/jpn.12522.
5	M. E. Abd El-Hack, M. Alagawany and M. Saeed (2016). Effect of gradually substitution of <i>Nigella sativa</i> meal for soybean meal on growth performance, carcass traits and blood lipid profile of growing Japanese quail. <i>Journal of Animal and Feed Sciences. In Press</i> .
6	Elwy A. Ashour, Fayez M. Reda and Mohamed E. Abd El-Hack (2016). The influences of Partially Replacement of Maize Corn by Broken Rice and Sugar Beat Pulp on Growth Performance, Carcass Traits and Economics of Meat-Type Quail. <i>Iranian Journal of Applied Animal Science, In Press</i> .
7	Mohamed Ezzat Abd El-Hack, Mahmoud Alagawany, Mayada Ragab Farag, Ruchi Tiwari, Kumaragurubaran Karthik and Kuldeep Dhama (2016). Nutritional, Healthical and Therapeutic Efficacy of Black Cumin (<i>Nigella sativa</i>) in Animals,



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	Poultry and Humans. International Journal of Pharmacology, 12: 232-248.
8	Mahmoud Alagawany, Mohamed Ezzat Abd El-Hack, Mayada Ragab Farag, Ruchi Tiwari, Swati Sachan, Kumaragurubaran Karthik and Kuldeep Dhama (2016). Positive and Negative Impacts of Dietary Protein Levels in Laying Hens. Asian Journal of Animal Sciences, 10: 165-174.
9	Mohamed Ezzat Abd El-Hack, Mahmoud Alagawany, Mayada Ragab Farag, Ruchi Tiwari, Kumaragurubaran Karthik, Kuldeep Dhama, Jalil Zorriehzakra, Milad Adel (2016). Beneficial Impacts of Thymol Essential Oil on Health and Production of Animals, Fish and Poultry: A review. Journal of Essential Oil Research 02/2016.
10	Mayada Ragab Farag, Mahmoud Alagawany, Mohamed Ezzat Abd El-Hack, Kuldeep Dhama (2016). Nutritional and Healthical Aspects of Spirulina (Arthrospira) for Poultry, Animals and Human. International Journal of Pharmacology 01/2016; 12(1):36-51. DOI:10.3923/ijp.2016.36.51.
11	Mahmoud Alagawany, Mohamed E. Abd El-Hack and Mohamed S. El-Kholy (2015). Productive performance, egg quality, blood constituents, immune functions, and antioxidant parameters in laying hens fed diets with different levels of Yucca Schidigera extract. Environmental Science and Pollution Research 12/2015.
12	Mahmoud Alagawany and M.E. Abd El-Hack (2015). The effect of rosemary herb as a dietary supplement on performance, egg quality, serum biochemical parameters, and oxidative status in laying hens. Journal of Animal and Feed Sciences 11/2015; 24(4):341–347.
13	Mohamed Ezzat Abd El-Hack, Mahmoud Alagawany, Mayada Ragab Farag and Kuldeep Dhama (2015). Use of Maize Distiller's Dried Grains with Solubles (DDGS) in Laying Hen Diets: Trends and Advances. Asian Journal of Animal and Veterinary Advances, 10(11):690-707.
14	Mahmoud Alagawany, Mayada R Farag, Mohamed E Abd El-Hack and Kuldeep Dhama (2015). The Practical Application of Sunflower Meal in Poultry Nutrition. Advances in Animal and Veterinary Sciences 10/2015.
15	Abd El-Hack, M. E., S. A. Mahgoub, M. Alagawany, K. Dhama (2015). Influences of Dietary Supplementation of Antimicrobial Cold Pressed Oils Mixture on Growth Performance and Intestinal Microflora of Growing Japanese Quails. International Journal of Pharmacology; 11(7):689-696.
16	Mahrose, Kh., A.Attia, I.Ismail , D.Abou-Kassem, M. Abd El-Hack (2015). Growth



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	performance and certain body measurements of ostrich chicks as affected by dietary protein levels during 2–9 weeks of age. <i>Open Veterinary Journal</i> 5 (2), 98-102.
17	Alagawany, M., <u>Abd El-Hack, M.E.</u> and Mahgoub, S. (2015). Decreasing Environmental Pollution in Poultry Farm and Increasing Production Performance through Dietary Manipulation Combined with Biological Treatment. 3 rd International Conference on Sustainable Solid Waste Management, Tinos Island, Greece; 07/2015.
18	<u>Abd El-Hack, M. E.</u> and Alagawany, M. (2015). Performance, egg quality, blood profile, immune function, and antioxidant enzyme activities in laying hens fed diets with thyme powder. <i>Journal of Animal and Feed Sciences</i> :127-133.
19	<u>Abd El-Hack, M. E.</u> and Mahgoub, S. (2015). Mitigating harmful emissions from laying hens manure and enhancing productive performance through feeding on DDGS with or without <i>Bacillus</i> spp. International Conference "Industrial waste and wastewater treatment and valorization, President Hotel in Athens, Greece 21st to 23rd May, 2015, Athens, Greece; 05/2015.
20	Ashour, E. A., <u>M. E. Abd El-Hack</u> and A. O. Osman (2015). Growth Performance, Carcass Characteristics and Blood Serum Biochemistry of Broiler Chickens Fed Different Levels of Dried Whey. <i>International Journal of Current Research in Biosciences and Plant Biology</i> 2(6): 1-8.
21	Reda, F.M., E.A. Ashour, M. Alagawany, <u>M.E. Abd El-Hack</u> (2015). Effects of Dietary Protein, Energy and Lysine Intake on Growth Performance and Carcass Characteristics of Growing Japanese Quails. <i>Asian Journal of Poultry Science</i> , 05/2015.
22	<u>Abd El-Hack, M.E.</u>; M.M. Alagawany; V. Laudadio; R. Demauro and V. Tufarelli (2015). Dietary Inclusion of Raw Faba Bean Instead of Soybean Meal and Enzyme Supplementation in Laying Hens: Effect on Performance and Egg Quality. <i>Saudi Journal of Biological Sciences</i> 05/2015; 25.
23	Farag, M. R. , Alagawany, <u>Abd El-Hack, M. E.</u>, Tiwari, R. , Dhama, K. (2015). Identification of Different Animal Species in Meat and Meat Products - Trends and Advances. <i>Advances in Animal and Veterinary Sciences</i> , 3(6): 334-364.
24	Alagawany, M., <u>Abd El-Hack M.E.</u>, Farag, Mayada R., Tiwari, Ruchi, Dhama, K. (2015). Biological Effects and Modes of Action of Carvacrol in Animal and Poultry Production and Health - A Review. <i>Advances in Animal and Veterinary Sciences</i>



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	01/2015; 3(2): 73-84.
25	Alagawany, M.; El-Hindawy, M; Attia, A.; Farag, Mayada and <u>Abd El-Hack, M.</u> (2015). Influence of dietary choline levels on growth performance and carcass characteristics of growing Japanese quail. <i>Advances in Animal and Veterinary Sciences</i> 01/2015; 3(2): 109-115.
26	Alagawany, M., M.R. Farag, K. Dhama, <u>M. E Abd El-Hack</u>, R. Tiwari and G. M. Alam (2015). Mechanisms and Beneficial Applications of Resveratrol as Feed Additive in Animal and Poultry Nutrition: A Review. <i>International Journal of Pharmacology</i> , 11(3): 213-221.
27	Ashour, E. A., M. Alagawany, F. M. Reda, <u>M. E. Abd El-Hack</u> (2014). Effect of supplementation of <i>Yucca schidigera</i> extract to growing rabbit diets on growth performance, carcass characteristics, serum biochemistry and liver oxidative status. <i>Asian Journal of Animal and Veterinary Advances</i> , 9 (11): 732-742.
28	Alagawany, M.; <u>M. E Abd El-Hack</u>; V. Laudadio and V. Tufarelli (2014). Effect of low-protein diets with crystalline amino acid supplementation on egg production, blood parameters and nitrogen balance in laying Japanese quails. <i>Avian Biology Research</i> , 7 (4): 235-243.
29	S. A. Adedokun; P. Jaynes; <u>M. E. Abd El-Hack</u>; R. L. Payne and T. J. Applegate (2014). Standardized ileal amino acid digestibility of meat and bone meal and soybean meal in laying hens and broilers. <i>Poultry Science</i> , 93: 420-428.

• **Local publication**

1	<u>Abd El-Hack, M. E.</u>; M.M. El-Hindawy; A.I. Attia and Kh.M. Mahrose (2015). Effects of feeding DDGS with or without enzyme or vitamin E supplementation on productive performance of Hisex Brown laying hens. <i>Zagazig Journal of Agriculture Research</i> , 42 (1): 71-79.
2	Mahrose, Kh. M.; Sonbol, S. M. and <u>M. E. Abd El-Hack</u> (2012). Response of laying hens to dietary vitamins A, E and selenium supplementation under Egyptian summer conditions. <i>Egyptian Journal of Animal Production</i> , 47:167-181.
3	A. A. Askar; Sh. M. Sonbol and <u>M. E. Abd El-Hack</u> (2011). White blood cells differentiation and some blood profile traits of heat-stressed laying hens treated with some antioxidants. <i>Egyptian Journal of Nutrition and Feeds</i> , 14 (3): 515-527.
4	<u>Abd El-Hack, M. E.</u>; Sh. Sonbol; A. Askar and Kh. Mahrose (2011). Some histological observations on ovary and spleen of heat-stressed laying hens treated



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	with antioxidants. <i>J. of Animal and Poultry Production, Mansoura Univ., 2 (2): 1-9.</i>
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• **Books:**

1	Mohamed Abd El-Hack; Ali Askar and Khalid Mahrose. Heat stress alleviation in laying hens using antioxidants. <i>Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN: 978-3-8454-0605-3.</i>
2	Mohamed Abd El-Hack; Adel Attia and Khalid Mahrose. DDGS in laying hens nutrition. <i>Scholars' Press. OmniScriptum GmbH & Co. KG, Heinrich-Böcking-Straße 6-8, D-66121 Saarbrücken, Germany. ISBN: 978-3-639-76701-8.</i>

International cooperation: sharing in research and review articles with researchers from:

United states	1- Todd J. Applegate (Purdue University). 2- Sunday A. Adedokun (Purdue University). 3- P. Jaynes (Purdue University). 4- R. L. Payne (Evonik Industries, Kennesaw).
Italy	5- Vincenzo Tufarelli (University of Bari 'Aldo Moro'). 6- Vito Laudadio (University of Bari 'Aldo Moro').
India	7- Kuldeep Dhama (Indian Veterinary Research Institute, Division of Pathology, Izatnagar, Bareilly, Uttar Pradesh). 8- Ruchi Tiwari (Mathura University, Department of Microbiology). And more.
China	9- Muhammad Saeed (College of Animal Sciences, Northwest A&F University, Yangling, 712100, China).
Turkey	10- Osman Olgun (Selcuk University, Department of Animal Science, Konya). 11- Tugay AYAŞAN. (Mediterranean Agricultural Research Institute)
Pakistan	12- Many researchers.

Reviewing: reviewer and member of the editorial board of these scientific journals:

International Journal of Agricultural Science Research (IJASR)	http://academeresearchjournals.org/journal/ijasr/editorialboard
Universal Journal of Agricultural Research	http://www.hrpub.org/journals/jour_reviewers.php?id=4
Revista Brasileira de Zootecnia	http://www.scielo.br/scielo.php?script=sci_serial&pid=1516-3598&lng=en&nrm=iso



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Journal of the Science of Food And Agriculture

<https://mc.manuscriptcentral.com/jsfa-wiley>

Activities in civil society:

2014 & 2015	<p>Shared as a trainer in the "Egypt Network for Integrated Development (ENID)". ENID is an initiative to develop viable and sustainable development and employment opportunities in south upper Egypt, where levels of poverty and unemployment are high. ENID operates as a United Nations Development Program (UNDP) project under the umbrella of Egypt's Ministry of International Cooperation.</p> <p>My role was to help training some of poor women in the ideal ways for keeping laying hens to produce table and fertile eggs. This event has been done in Qena Governorate (one of south upper Egypt Governorates).</p>
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Skills:

Personal Skills	<ul style="list-style-type: none"> ☑ Hard worker. ☑ Good project planner. ☑ Work in a team. ☑ Work under stress. ☑ Public relational and communications skills.
Language	<p>English (local TOEFL score: 546). Deutsch and French (little bit).</p>
Computer skills	<ol style="list-style-type: none"> 1. Intensive course of computer for 3 months involved: <ul style="list-style-type: none"> • Managing Files (Windows). • Word Processing (Word). • Spread Sheets (Excel). • Data Base (Access). • Presentations (Power Point). • Microsoft front page. • Information Communication (Internet). 2. Latex system programming. 3. Data Analysis Programs: SAS, SPSS and M. state. 4. Statistical analysis and SAS programming language. 5. GIS (Geographic Information System).
Laboratory Skills	<ul style="list-style-type: none"> - Aware of using lab basics facilities, devices, chemicals...etc. - Trained on the most newly advanced techniques in the field of animal and poultry nutrition, Artificial insemination, reproductive, blood analysis such as: Nitrogen analyzer, Bomb calorimeter, HPLC, Spectrophotometer, RT-PCR...etc. - My practical awareness increased by going to seminars, visiting research centers, training courses, hosting trainers from different universities ..etc.



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Teaching Experience	<p><i>Assist undergraduate teaching courses such as:</i></p> <ol style="list-style-type: none"> 1. General Poultry physiology. 2. Physiology of Reproduction and artificial insemination. 3. Artificial incubation and incubators management. 4. Poultry production fundamentals. 5. Poultry Nutrition fundamentals. 6. Poultry Nutrition (Metabolism). 7. Poultry Abattoirs and poultry by-products.
Training courses	<ol style="list-style-type: none"> 1. Course of computer for 3 months (Administration of training demonstrators). 2. Course in "Competitive Research Projects" (Faculty and leadership development center {FLDC} - Zagazig University). 3. Course in "Effective Presentation Skills" (Faculty and leadership development center {FLDC} - Zagazig University). 4. Course in "Quality Standards in Teaching" (Faculty and leadership development center {FLDC} - Zagazig University). 5. Course in "Scientific Research Ethics" (Faculty and leadership development center {FLDC} – Zagazig University). 6. Course in "Student Evaluation and Examination Techniques" (Faculty and leadership development center {FLDC} – Zagazig University). 7. Course in "Using Technology in Education" (Faculty and leadership development center {FLDC} – Zagazig University). 8. Course in "University lecturer preparation" (Faculty and leadership development center {FLDC} – Zagazig University) within the period from 26/6/2011 to 11/7/2011. 9. Workshop in "Proposal writing" provided by DAAD kairo Academie, 8/5/2013 by Prof. Dr. Mohamed El-Fouly. 10. Workshop in "International publishing" provided by DAAD kairo Academie, 7/7/2013 by Prof. Dr. Mohamed Fawzy Ramadan. 11. Course in "Self assessment for high education establishments" (National Authority for Quality Assurance and Accreditation of Education) at 03/2015. 12. Course in "Strategic Planning" (National Authority for Quality Assurance and Accreditation of Education) at 04/2015. 13. Course in "Programs and courses specification" (National Authority for Quality Assurance and Accreditation of Education) at 05/2015.

Activities, Conferences and workshops:

Activities	<ul style="list-style-type: none"> ◆ Supervising Poultry farms of my faculty. ◆ Participating in the department projects and assisting my colleagues in the lab with their thesis. ◆ Sharing in the preparation of various scientific instruments that serve the
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	<p>educational process.</p> <ul style="list-style-type: none"> ◆ Preparation and supervision of the students at the annual scientific training (summer training) for students of the fourth stage. ◆ Working as a member in the "Quality assurance unit" in the faculty since 2008. ◆ Participating in the cultural activities organized by the commission for students and other members of the faculty at the college and university. ◆ <i>Attended a lot of scientific seminars and workshops such as:</i> <ol style="list-style-type: none"> 1) Public seminar at the Faculty of Agriculture, Zagazig University, November 2007, entitled "Using genetic parameters for improvement of quality meat in rabbits". By Prof. Dr .Fayez Maria & Prof. Dr. Ahmed Deader. 2) Seminar about "Artificial insemination in rabbits". (2007). 3) Seminar discussing "Studies on avian influenza in West Delta", (2008), Faculty of Veterinary, Zagazig university, Egypt. 4) Workshop about "Selection indices for rabbit improvement", 2008, Faculty of Agriculture, Zagazig University.
<p>Seminars, conferences and workshops</p>	<ol style="list-style-type: none"> 5) A seminar entitled "Activating the role of the university in contributing to the activity of NGOs", which was attended by the Minister of Social Solidarity Dr/Ali Al-Mesilhy, Faculty of Agriculture, Zagazig University (March 2010). 6) Workshop about: "Using bioinformatics in the field of agriculture", Faculty of Agriculture, Zagazig University, 23/8/2010 by Dr/Ahmed Mansour. 7) Workshop about "Using grains in Ethanol fuel production"- Faculty of Agriculture, Zagazig University, 31/8/2010 by Dr/Hesham Al-Tohamy. 8) A seminar about: "Using gene markers in the improvement of rabbits' breeds", September, 2011, Faculty of Agriculture, Zagazig University. 9) A seminar about: "Heat stress alleviation in Japanese quails kept under Egyptian summer conditions using feed additives", 30/11/2011, Faculty of Agriculture, Zagazig University. 10) An event entitled: "Michigan Winter Poultry Seminar", presented by Michigan State University Extension. Thursday, February 2, 2012; Horward Miller Community Center. Involved: <ul style="list-style-type: none"> ❖ What you need to know about lighting- Ron Demshar, ONCE Innovations. ❖ Turkey/Broiler Session, Chairperson- Andy Snider. ❖ Poultry quality and brooding, Hybrid Technical Representative. ❖ Gut bugs and impact on performance and health- Dr. Todd Applegate, Professor, Purdue University. ❖ Egg Production Session, Chairperson of Herbuck's company for egg production- Mohamed Mousa.



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- 11) A seminar about: "**Vitamin D Enhancement of Muscle Tenderness in Steers fed Zilpaterol Hydrochloride**", by Kathleen Korn; February, 2012; Animal Sciences Department; Purdue University; USA.
- 12) A seminar about: "**The Impact of Zinc on Growth and Barrier Function during Administration of a Coccidial Vaccine**" by Catalina Troche; February 29, 2012; Animal Sciences Department; Purdue University; USA.
- 13) A seminar entitled: "**Organization and Time Management**", by Purdue worklife program's: Amber Simmons, February 29, 2012; Animal Sciences Department; Purdue University; USA.
- 14) A seminar entitled: "**What Forces Are Changing Agriculture and the Food Supply System and How Can You Contribute in the Future?** ", by Dr Gray Weber, 1st March 2012; Animal Sciences Department; Purdue University; USA.
- 15) A seminar entitled: "**Bacteriophage-based methods to control E. coli O157:H7 contamination of beef products**", by Yanying Pan, March 29, 2012; Animal Sciences Department; Purdue University; USA.
- 16) A seminar entitled "**Ostrich production under Egyptian conditions**", 30/11/2014, Faculty of Agriculture, Zagazig University.
- 17) **The Second Employment Seminar** in Faculty of Agriculture, Zagazig University, December, 2014.
- 18) The first Mycotoxins workshop "**Modern Detection of Mycotoxins in Food and Feed**" in The City of Scientific Researches and Technological Applications, Ministry of Scientific Research, Egypt, February 10th, 2015.
- 19) International conference entitled "**Critical applications and their relationship to food and medicine in the field of plant science and microbiology**", Faculty of Sciences, Zagazig University, 15-16th April, 2015.
- 20) The 17th **International Exhibition for Management and Production of Poultry, Live Stock and Fish (AGRENA)**. Cairo international conference center, Nasr city, Egypt, 28-30/05/2015.
- 21) Workshop about "**the strategic plan of Faculty of Agriculture, Zagazig University**", December 2015.
- 22) The 15th conference of animal nutrition (ruminants, poultry, fish), Hurgada, Egypt, 17-20 November, 2015.
- 23) Workshop about "**Projects Management**", December 2015.
- 24) A seminar entitled "**Fibers levels in broiler diets, new trends**", 15/1/2016, Faculty of Agriculture, Zagazig University.

