

السيرة الذاتية للدكتور/ أيهاب رضا أحمد الحارون



البيانات الأساسية:

- الوظيفة الحالية: أستاذ تغذية الأسماك بقسم الإنتاج الحيواني - كلية الزراعة - جامعة القاهرة.
- Adjunct professor- Animal & Poultry science Department-Ontario Agriculture College-Guelph-Ontario-Canada
- تاريخ الميلاد: 1973/12/19
- العنوان: جمهورية مصر العربية -الجيزة - ص ب12311 -جامعة القاهرة - كلية الزراعة - قسم الإنتاج الحيواني والأسماك
- الحالة الاجتماعية متزوج ويعول
- رقم تليفون الكلية: 15198244120EX(58335)
- رقم تليفون المنزل : 15198231129
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- محمول: 12263437585
- البريد الإلكتروني: elharoun@gmail.com

المؤهلات العلمية :

- بكالوريوس علوم زراعية - إنتاج حيواني - يونيو 1995م - جامعة القاهرة بتقدير عام جيد جدا .
- ماجستير علوم زراعية - إنتاج حيواني (تغذية أسماك) 1999 م - جامعة القاهرة بتقدير عام امتياز.
- دكتوراه فلسفة في العلوم الزراعية- (تغذية & فسيولوجيا الأسماك) -2001م - جامعة القاهرة بتقدير عام امتياز.
- دكتوراه في تغذية الأسماك - 2011م (تغذية أسماك) - University of Guelph, Canada بتقدير A+ level.

التدرج الوظيفي:

- معيد بقسم الإنتاج الحيوانى بكلية الزراعة جامعة القاهرة اعتبارا من 1995/10/1.
- مدرس مساعد بقسم الإنتاج الحيوانى بكلية الزراعة جامعة القاهرة اعتبارا من 1999/5/28
- مدرس بقسم الإنتاج الحيوانى بكلية الزراعة جامعة القاهرة اعتبارا من 2001/10/31
- مهمة علمية بقسم الإنتاج الحيوانى والداجنى اعتبارا من 31/8/2003 الى الآن
University of Guelph, Guelph, Ontario, Canada, N1G2W1
- أستاذ مساعد بقسم الإنتاج الحيوانى بكلية الزراعة جامعة القاهرة اعتبارا من 2007/11/29 الى الآن
Research Associate Animal & Poultry science department Ontario
agriculture College-University of Guelph- Canada starting 09/2003 to 09/2011
- رئيس معمل تغذية الأسماك - بكلية الزراعة جامعة القاهرة اعتبارا من 1/11/2007

مجال الخبرة:

- أعداد التراكيب الخاصة بأغذية مزارع الأسماك والقشريات للمزارع الحكومية والقطاع الخاص .
- تركيب العلائق الاقتصادية الصديقة للبيئة المناسبة للاستزراع التجارى للأسماك والقشريات.
- القيام بجميع التحليلات الكيمائية المعملية الازمة للحكم على التركيب الكيمائى للعلائق والحكم على نوعيتها وجودتها للاستخدام فى الاستزراع.
- استخدام برامج الكومبيوتر المتخصصة فى تكوين وتركيب العلائق الاقل تكلفة والاكثر استفادة غذائيا للأسماك وتدريب شباب الباحثين على استخدامها.
- استخدام برامج الكومبيوتر الاحصائية المتخصصة فى تحليل نتائج التجارب البحثية واعداد النتائج وتدريب شباب الباحثين على استخدامها.
- التدريب على الأعمال الروتينية والفنية اللازمة لاداره مزارع اسماك صغار المزارعين وشباب الخرجين.
- القيام بالقاء المحاضرات النظرية والعملية فى مجال تغذية واستزراع الاسماك بكلا من جامعة القاهرة & University of Guelph .
- القيام بالقاء المحاضرات النظرية والعملية فى مجال تغذية واستزراع الاسماك من خلال الدورات التدريبية المتخصصة التى يقوم بها
USDA (United State Department of Agriculture).

- إعداد دراسات الجدوى للمزارع السمكية-إنشاء المزارع السمكية - إعداد البرامج المتكاملة لإدارة المزارع السمكية.
- إعداد المقررات الدراسية الخاصة باستزراع الأسماك بالجامعة.
- إعداد المؤلفات العلمية الخاصة باستزراع الأسماك والقشريات.

الإهتمام العلمى:

- 1- الإهتمام بالأبحاث التى تحافظ على البيئة من التلوث.
- 2- تقييم المخلفات الحيوانية.
- 3- تقييم المخلفات الزراعية .
- 4- البحث عن مصادر علفية جديدة.
- 5- الإضافات الغذائية لرفع القيمة الغذائية لمواد العلف.

الأنشطة الوظيفية:

أولاً: داخل القسم:

- 1- المشاركة فى تدريس مقررات التغذية (أسماك – دواجن) "كلية الزراعة - جامعة القاهرة".
 - Animal Production System and Industry. F [0.50] ANSC*2250 (University of Guelph)
 - Agriculture Animal Physiology F [0.50] ANSC*3080 (University of Guelph)
 - Modeling Metabolic Processes F [0.50] ANSC*6030 (University of Guelph)
- 2- العمل على إنشاء معامل بحوث تغذية الحيوان والأسماك بالقسم.
- 3- المشاركة فى اعمال الجودة.

ثانياً: على مستوى الكلية:

- عضو لجنة البيئة بالكلية لمدة عامين.
- عضو لجنة الأجهزة والمعامل بالقسم لمدة عامين.
- المشاركة فى اعمال الجودة.
- العمل على تطوير معامل تغذية الأسماك.

ثالثاً: على مستوى النشاط الطلابي:
 • مساعد راند أسرة حورس لمدة عام

رابعاً: المقررات الدراسية :

Course #	Course Title (half credits)	Date	Enrollment	Assessment
AGRI*2125	Fish and Crustacean Nutrition	Offered annually	35	
AGRI*1125	Principals of Fish Production	Offered annually	150	
ANSC*6030	Modeling Metabolic Processes	Fall	10	
ANSC*3080	Animal Physiology	Fall	170	
AGRI*4021	Aquaculture Seminar			
ANSC*2250	Animal Production System and Industry	Fall	255	

خامساً: الإشراف على طلبة الماجستير والدكتوراة وباحثين ما بعد الدكتوراة والفنيين

3 M.Sc students –1 previously graduated, 1 to begin in winter 2012

Undergraduate students – 4 previously supervised

Post-doctoral fellows – 1 currently supervised

Technicians – 2 previously supervised

Visiting Scientist – 1 currently supervised (1 from Niger)

Trained a diverse group of students and trainees from North America, Asia, Middle East,

North Africa and Western Africa

سادساً: الدورات التدريبية وورش العمل:

Meeting Format	Participation	Location /Title	Date	City/Country
Workshop	Registered credit course	Scholarly project and research management course- Knowledge mobilization –Public communication	4 April, 2011	Guelph, Canada
Workshop	Registered credit course	Scholarly project and research management course-Mobilization academic publishing	28 March, 2011	Guelph, Canada
Workshop	Registered credit course	Scholarly project and research management course-Information management	21 March, 2011	Guelph, Canada
Workshop	Registered credit course	Scholarly project and research management course-Human ethics	14 March, 2011	Guelph, Canada
Workshop	Registered credit course	Scholarly project and research management course-Knowledge mobilization-business development	7 March, 2011	Guelph, Canada
Workshop	Registered	Scholarly project and research	28 February,	Guelph, Canada

	credit course	management course- Knowledge mobilization-case studies	2011	
Workshop	Registered credit course	Scholarly project and research management course- Health, safety, and risk management	14 February, 2011	Guelph, Canada
Workshop	Registered credit course	Scholarly project and research management course-Animal care	7 February, 2011	Guelph, Canada
Workshop	Registered credit course	Scholarly project and research management course- Finance and conflict of interest	31 January, 2011	Guelph, Canada
Workshop	Registered credit course	Electronic Thesis & Dissertations: Hands-on submission workshop	11 January, 2011	Guelph, Canada
Workshop	Registered credit course	Graduate Thesis Writing: Covering the Basics	16 June, 2008	Guelph, Canada
Workshop	Registered credit course	Introduction to SAS - Getting data into SAS	5 June, 2008	Guelph, Canada
Workshop	Registered credit course	Focus Group on GSLI Survey for ESL Students	27 May, 2008	Guelph, Canada
Training Course	Registered credit course	FLDP, Effective presentation skills	18 July, 2007	Cairo, Egypt
Training Course	Registered credit course	Cairo University Library (Scientific Writing)	14 July, 2007	Cairo, Egypt
Training Course	Registered credit course	FLDP, Effective Communication Skills	27 July, 2007	Cairo, Egypt
Training Course	Registered credit course	FLDP, Effective Teaching Skills	16 June, 2007	Cairo, Egypt
Training Course	Registered credit course	FLDP, Effective presentation skills Attendance	3 June, 2007	Cairo, Egypt
Training Course	Registered credit course	WHMIS (Workplace Hazardous Materials Information System)	5 June, 2005	Guelph, Canada
Training Course	Registered credit course	Radiation safety training: Laboratory safety	10 May, 2005	Guelph, Canada
Training Course	Registered credit course	Feed Mixing course	6 May, 2004	Guelph, Canada
Training Course	Registered credit course	Feed Grinding course	12 May, 2004	Guelph, Canada
Training Course	Registered credit course	Animal Care Course	14 April, 2004	Guelph, Canada

سابعاً: الندوات والمؤتمرات (الابحاث المنشورة في المؤتمرات الدولية):

1. **El-Haroun, E. R.,** Abo-Ismael, M. K., Salim, H. S., Vander Voort, G., **McMorris, M.,** and Miller, S. P. 2013 Influence of offering hay free-choice concurrently with total mixed ration on residual feed intake rank differences of beef bulls. ADAS-ASAS Joint Animal Meeting-July 8-12, Indianapolis, Indiana, United state.
2. **El-Haroun, E.R.,** Kim, J., Bureau, D.P., Willms, A.R., and Cant, J.P. 2012. Calibration of a dynamic, mechanistic model of amino acid and insulin effects on protein synthesis in animal tissues to represent liver and skeletal muscle. ADSA/AMPA/ASAS/CSAS/WSASAS Joint Annual Meeting-July 15-19, Phoenix, Arizona, United state.
3. **El-Haroun, E.R.,** Mabroke, R. S. and Suloma, A. 2012. Development of broodstock diets for Nile tilapia under hapa- in- pond hatchery system. XV International Symposium on Fish Nutrition and Feeding. Molde, Norway. 4-7 June 2012
4. Mabroke, R. S., **El-Haroun, E.R.** and Suloma, A. 2012. Tryptophan supplementation of meat and bone meal in lysine-enriched diets improves growth performance and nutrient utilization of Nile tilapia, *Oreochromis niloticus*. XV International Symposium on Fish Nutrition and Feeding. Molde, Norway. 4-7 June 2012
5. Mabroke, R. S., **El-Haroun, E.R.** and Suloma, A. 2012. Tilapia nutrition under biofloc system: new findings promise new insights towards more sustainable production. XV International Symposium on Fish Nutrition and Feeding. Molde, Norway. 4-7 June 2012
6. **El-Haroun, E.R.,** Bureau D.P., and Cant J.P. 2011. A Mechanistic Model of Protein Deposition and Amino Acid Oxidation in Response to Amino Acid Imbalances and Deficiencies in Growing Animals. CSAS/SCSA Annual Meeting-4-5 May, Halifax, Canada
7. **El-Haroun, E.R.,** Mabroke, R. S., Mahamadou I. H, Tahoun, A.M., and Suloma, A. 2011. Phosphorus value in meat and bone meal compare to monosodium phosphate for Nile tilapia broodstock reared in a hapa-in-pond hatchery system. 9th Asian Fisheries and Aquaculture Forum (9AFAF). 21st – 25th April 2011, Shanghai, China
8. **El-Haroun, E.R.,** Suloma, A., and Mabroke, R.S. 2011. Nutritional evaluation of rendered animal by-product as suitable alternative for fish meal and soybean meal in diets for the culture of Nile tilapia *Oreochromis niloticus* in Egypt. 9th Asian Fisheries and Aquaculture Forum (9AFAF). 21st – 25th April 2011, Shanghai, China
9. Tahoun, A. M., Hammouda, Y., Suloma, A., Abo State, H., and **EL-Haroun, E.R.** 2011. The potential of mixed culture of Nile tilapia *Oreochromis niloticus*, striped mullet *Mugil cephalus* and thin-lipped mullet *Liza ramada* in increase fish

production and improve the pond environment. 9th Asian Fisheries and Aquaculture Forum (9AFAF). 21st – 25th April 2011, Shanghai, China

10. Suloma, A., Mabroke, A.R.S., Hassane, M. I and **El-Haroun E. R.** 2010. Bioavailability of phosphorus in meat and bone meal for Nile tilapia *Oreochromis niloticus*. X International Symposium on Aquaculture Nutrition, Monterrey, Nuevo León, México, November 8-10.
11. **El-Haroun, E.R.**, Bureau D.P, and Cant J.P. 2009. A Dynamic, Mechanistic Model of Nutritional Control of Protein Synthesis in Tissues of Growing Animals 7th Workshop Modelling Nutrient Digestion and Utilization in Farm Animals 10-12 September, Paris, France.
12. **El-Haroun, E.R.** 2007 "Improved growth rate and feed utilization in farmed African catfish *Clarias gariepinus* (Burchell 1822) through a growth promoter Biogen® supplementation" 137th Annual Meeting of the American Fisheries Society, September 2-6, San Francisco, California ,USA.
13. Kabir Chowdhury, M. A., **El-Haroun, E.R.**, Goda, A.M., and. Salah El-Din, S.A. 2007. Effect of dietary protein and feeding time on growth performance and feed utilization of post larval freshwater prawn *Macrobrachium rosenbergii*. The Texas Aquaculture Association & The World Aquaculture Society Conference, Feb 26 - Mar 02, San Antonio, Texas, USA.
14. **El-Haroun., E. R** and Bureau, D.P. 2006. Effect of increasing dietary digestible protein level using protein sources with imbalanced amino acids profiles on growth and feed efficiency of rainbow trout (*Oncorhynchus mykiss*) XII. International Symposium Fish Nutrition & Feeding, 28 May-1 June 2006, Biarritz, France.
15. **El-Haroun, E.R.** and Bureau, D. P. 2004. Assessing Bioavailability of Lysine in Different Blood Meals Using a Slope Ratio Assay in Trout.19-22 October, Aquaculture Association Canada (AAC) Quebec City, Montreal, Canada.
16. **El-Haroun, E.R.** and Bureau, D. P. 2004. Assessing Availability of Lysine in Different Blood Meals Using a Slope Ratio AquaNet V, Quebec City, Montreal, 19-22 October.
17. Kabir Chowdhury, M. A., **El-Haroun, E.R.**, Goda, A.M., and. Salah El-Din, S.A. (2007). Effect of dietary protein and feeding time on growth performance and feed utilization of post larval freshwater prawn *Macrobrachium rosenbergii*. The Texas Aquaculture Association & The World Aquaculture Society Conference, Feb 26 - Mar 02, San Antonio, Texas, USA.
18. **El-Haroun., E. R** and D.P.Bureau (2006). Effect of increasing dietary digestible protein level using protein sources with imbalanced amino acids profiles on growth and feed efficiency of rainbow trout (*Oncorhynchus mykiss*) XII. International Symposium Fish Nutrition & Feeding, 28 May-1 June 2006, Biarritz, France.
19. **El-Haroun, E.R.** and Bureau, D. P. (2004). Assessing Bioavailability of Lysine in Different Blood Meals Using a Slope Ratio Assay in Trout.19-22 October, Aquacultur Association Canada (AAC) Quebec City, Montreal, Canada.
20. **El-Haroun E.R.** (2000) – Effect of Vitamin E and selenium on Nile tilapia immunity. The Animal feed and feeding Conferences. Cairo University, 24 November

ثامناً-الملصقات العلمية

1. Suloma, A., Mabroke, A.R.S., Hassane, M. I and El-Haroun E. R. (2010). Bioavailability of phosphorus in meat and bone meal for Nile tilapia *OREAPOCHROMIS NILOTICUS*. X International Symposium on Aquaculture Nutrition, Monterrey, Nuevo León, México, November 8-10.
2. El-Haroun, E.R. and Bureau, D. P. (2004). Assessing Availability of Lysine in Different Blood Meals Using a Slope Ratio. AquaNet V, Quebec City, Montreal, 19-22 October.

تاسعاً-الدورات التدريبية وورش العمل

1. Ontario Aquaculture Association Annual General Meeting. Espanola, Ontario. 8-9 October 2003.
2. AquaNet V, Quebec City, Montreal, 19-22 October 2004.
3. Workshop on Mediterranean Fish Nutrition, Alexandria (Egypt), 1-2 June 2002.
4. Fish culture section Annual Meeting. Guelph, Ontario. 6-7 November 2003.

عاشراً: تحكيم العديد من الأبحاث في المجالات العالمية والمحلية :

1. Journal of Aquaculture International
2. Journal of aquaculture research
3. Journal of World Aquaculture Society
4. Journal of Comparative and Biochemical Physiology
5. International Journal of Biology and Conservation
6. Journal of Agricultural Science and Technology

حادي عشراً: الإشتراك في الجمعيات والمجلات العلمية :

1. عضو الجمعية المصرية لعلوم الإنتاج الحيواني.
2. عضو الجمعية المصرية للتغذية والأعلاف.
3. Aquaculture Canada
4. عضو نقابة المهن الزراعية
5. عضو الجمعية المصرية للإنتاج الحيواني.
6. عضو الجمعية المصرية للتغذية والأعلاف.
7. عضو الجمعية المصرية لتنمية الثروة السمكية.
8. عضو الجمعية المصرية للتغذية.
9. Aqua Net

ثاني عشر: المشاركة في تأليف كتب علمية :

- 1- المشاركة في مذكرة أساسيات تغذية الأسماك بالقسم.
- 2- المشاركة في مذكرة تغذية الحيوان والدواجن بالقسم.

ثالث عشرًا: المشاريع البحثية :
الحصول على العديد من المشاريع البحثية الممولة من جهات عالمية وبالأشتراك مع
جامعات وشركات عالمية :

1-Natural Sciences and Engineering Research Council of Canada

(NSERC)

Steps towards development of DNA markers for improving residual feed intake in
beef industry in Ontario, Canada

Principal Investigator: Ehab El-Haroun

Co-recipients: M. McMorris (Beef Improvements Opportunities, BIO),

Stephen Miller (Center for Genetics Improvements Livestock, CGIL-
University of Guelph).

Funding: \$80,000 (2011 –2014)

2-Science and Technology Development Fund

Development of a biofloc technology for high intensive and organic
production of tilapia, mullet and freshwater shrimp under desert conditions

Principal Investigator: Ashraf Suloma

Co-recipients: Ehab El-Haroun (Cairo University), Rania Mabroke (Cairo
University).

Funding: 1,500,000 L.E (2013 –2017)

3-Natural Sciences and Engineering Research Council of Canada

(NSERC)

Steps towards development of DNA markers for improving residual feed intake in
beef industry in Ontario, Canada

Principal Investigator: Ehab El-Haroun

Co-recipients: M. McMorris (Beef Improvements Opportunities, BIO), Stephen
Miller (Center for Genetics Improvements Livestock, CGIL-University of
Guelph).

Funding: \$80,000 (2011 –2014)

4- Fat and Protein Research Foundation (FPRF)

Feather Meal and Meat and Bone Meal in Aquaculture Feeds and Production
Strategies for the Culture of Nile tilapia in Egypt.

Principal Investigator: Ehab El-Haroun

Co-recipients: A.M. Suloma (Cairo University), Sergio Nates (Fat and Protein
Research Foundation, FPRF), Kent Switcher (National Rendered Association,
NRA).

Funding: \$30,000 (2009 –2011)

5. Reducing waste outputs by aquaculture operations (2003-2004)

Project: Evaluating various feed ingredients and additives, and various economical developing Feed formulae to reduce waste outputs by aquaculture operations. Collaborators: D.B.Bureau (University of Guelph) Mark Wagner (Martin Mills, ON, Canada).

6. Assessing Availability of Lysine in Different Blood Meals Using a Slope Ratio Approach (2003-2005)

Project: Evaluating lysine Bioavailability in three different blood meals origin spray-dried blood meal, Flash dried blood meal and Disc dried blood meal compared to synthetic lysine in rainbow trout. Collaborators: D.B.Bureau (University of Guelph).

7. Assessing Availability of Lysine in Different Blood Meals comparing by synthetic lysine (Free Biolys® & encapsulate Biolys®) Using different mathematical approach (2005-2007)

Project: Evaluating lysine Bioavailability in spray dried blood meal compared Free Biolys® & encapsulate Biolys® to synthetic lysine in rainbow trout. Collaborators: D.B.Bureau (University of Guelph), Van Edberg (Université Laval, Québec), and Dirk Hoehler (Degussa Corporation, Kennesaw/GA, USA).

8. Rendering animal protein in aquaculture (2005-2007)

Project Evaluating rendering animal protein (Fish meal, Blood meal, Feather meal, Poultry by-product meal and Meat and Bone meal in rainbow trout to reduce feed cost and produce less cost diets. Collaborators: D.B.Bureau and Paula, P. Azevado (University of Guelph)

9. Characterization of different Land Animal Proteins (LAPs) from North America and South America comparing to Central America.

Collaborators: D.B.Bureau (University of Guelph) and Jaime Carrasco (Biomar Chile, S.A)

10. Nutritive Value of Rendered Animal Proteins and Fats for Aquaculture Species & Targeted Uses for these Ingredients in AquaFeeds (2005-2007).

This project reviews current information on the nutritive value of animal proteins and fats for aquaculture species and to summarize key findings into a technical document.

Collaborators: K. Hua, E. El-Haroun (University of Cairo, Egypt)

رابع عشرًا: الإنتاج العلمي :
تم نشر عدد 26 (سنة وعشرون بحثًا) بحثًا في مجال التغذية (الأسماك) في مجلات عالمية محكمة دوليًا

1. Suloma, A., Mabroke, R.S., Hassane, A.M., El-Husseiny, O.M. and **El-Haroun, E.R.** 2014. Complementary responses between hydrolyzed feather meal, fish meal and soybean meal without amino acids supplementation in Nile tilapia (*Oreochromis niloticus*) diets. Aquaculture International
2. Tahoun, A., Suloma, A., Hammouda, Y., Abo-State, H., and **EL-Haroun**. 2014. The Effect of Stocking Different Ratios of Nile Tilapia *Oreochromis niloticus*, Striped Mullet *Mugil cephalus*, and Thinlip Grey Mullet *Liza ramada* in Polyculture Ponds on Biomass Yield, Feed Efficiency, and Production Economics. North American Journal of Aquaculture, USA, 75: 548-555.
3. Mabroke, Azab Tahoun, Ashraf Suloma, **Ehab El-Haroun**. 2013 Evaluation of Meat and Bone Meal and Mono-Sodium Phosphate Supplemental Dietary Phosphorus Sources for Broodstock Nile Tilapia (*Oreochromis niloticus*) Under the Conditions of Hapa-in-Pond System. Aquaculture International, Europe, 21(2): 375-385
4. **El-Haroun, E.R.**, Suloma, A., and Mabroke, R.S. 2013. Meat and bone meal as a potential source of phosphorus in diets containing high levels of plant proteins for Nile tilapia (*Oreochromis niloticus*). Aquaculture International. 21:375-385
5. **El-Haroun, E.R.**, Suloma, A., Azab, M.T., and Mabroke, R.S. 2013. Evaluation of meat and bone meal and mono-sodium phosphate as supplemental dietary phosphorus sources for broodstock Nile tilapia (*Oreochromis niloticus*) under the conditions of hapa-in-pond system. Turkish Journal of Fisheries and Aquatic Sciences 13: 11-18
6. Tahoun, M. A., Mabroke, R.S., **El-Haroun, E. R.**, and Suloma, A. 2012. Effect of exogenous enzyme supplementation on reproductive performance of broodstock Nile tilapia reared in a hapa-in-pond hatchery system. Egypt J. Aquat. Biol. & Fish., Vol. 15, No. 3: 525-537.
7. **El-Haroun, E.R.**, Bureau, D.P., Cant, J.P., 2011. A mechanistic model of protein deposition and amino acid oxidation in response to amino acid imbalances and deficiencies in growing animals. Can. J. Anim. Sci. 91, 494-495. **El-Haroun, E.R.**, Bureau, P.D. and Cant, P.J. 2010. A Mechanistic Model of Nutritional Control of Protein Synthesis in Animal Tissues. Journal of theoretical Biology 262: 361-369
8. **El-Haroun, E.R.**, Azevedo, P.R. And Bureau, P.D. 2009. High dietary Incorporation levels of rendered animal protein ingredients on performance of rainbow trout *Oncorhynchus mykiss* (Walbaum, 1972). Aquaculture 290:269-274.

9. Suloma, A., Ogata, H.Y., Garibay, E.S., Chavez, D.R., and **EL-Haroun, E.R.** 2008. Fatty acid composition of Nile tilapia *Oreochromis niloticus* muscles: a comparative study with commercially important tropical freshwater fish in-Philippines. 8th International Symposium on Tilapia in Aquaculture, 12-14 October, Cairo, Egypt 921-932.
10. Chowdhury, M.A., Nani Gopal Das, **El-Haroun, E.R.**, and Manik Lal. 2008. Salinity preference of two diatoms and their growth performance in three prepared and two alternative on-farm media sources. *The Journal of Applied Aquaculture*. 93 (2): 93-107.
11. Chowdhury, M.A., Goda, M.A.S., **El-Haroun, E.R.**, Wafa, M.A., and Salah El-Din, S.A. 2008. Effect of Dietary Protein and Feeding Time on Growth Performance and Feed Utilization of Post Larval Freshwater Prawn *Macrobrachium rosenbergii* (de Man 1879). *Journal of Fisheries and Aquatic Science* 3 (1): 1-11.
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SUBMITTED JOURNAL ARTICLES:

23. El-Haroun, E.R., Bureau, P.D., Willms, A.P., and Cant, P.J. 2015. Calibration of a dynamic, mechanistic model of amino acid and insulin effects on protein synthesis in animal tissues to represent liver and skeletal muscle. *BMC system biology* "Submitted"
24. El-Haroun, E.R., Suloma, A., Goddard, S., and Mabroke, R.S. 2015. Tryptophan supplementation of meat and bone meal in lysine-enriched diets improves growth performance and nutrient utilization by Nile tilapia, *Oreochromis niloticus*. *International Journal of Aquaculture* "Submitted"
25. Suloma, A., Mabroke, R.S., Tahoun, A.M., El-Husseiny, O.M. and El-Haroun, E.R. 2015. Re-evaluation of the effect of daily and within-day mixed feeding schedules of varying dietary protein content on the growth performance of Nile tilapia fry using constant ingredient composition. *North American Journal of Aquaculture* "Submitted"

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- أستاذ زائر إلى كندا بقسم علوم الحيوان والدواجن بجامعة جويلف عام 2007-2003.
- زيارة معهد العلوم الزراعية باسبانيا فى الفترة من 1997-1996.

ثاني عشر: الاهتمامات العلمية :

جميع الاهتمامات العلمية تتركز علي:

1. كيفية الحصول على مواد علف جديدة.
2. العمل على رفع القيمة الغذائية للمواد العلفية الجديدة.
3. التخلص من المخلفات الزراعية والعمل على رفع قيمتها الغذائية.
4. العمل على تكوين علائق اقتصادية للحصول على عائد مربح من مشروع الإنتاج الحيواني.
5. المحافظة على البيئة بالتخلص من المخلفات الزراعية بطريقة علمية سليمة وأمنة واقتصادي

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1. NSERC Industrial R& D Fellowship (IRDF), 2011
2. NSERC Post-Doctoral Visiting Fellowship, 2011 "declined "
3. Second Place CSAS Graduate Students Theatre Competition Award, 2011
4. Mitacs –Accelerate Internship Program
5. Robb Travel Grant, 2011
6. Ontario Graduate Scholarship (OGS), 2010
7. Ajinomoto Heartland/Halchemix Scholarship, 2010
8. Cairo University Award for Scientific International Publications, 2009
9. Ajinomoto Heartland/Halchemix Scholarship, 2009
10. Cairo University Award for Scientific International Publications, 2010
11. Richard and Sophia Travel Grant, 2009
12. Richard and Sophia Scholarship, 2009
13. Richard and Sophia Scholarship, 2008
14. Cairo University Award for Scientific International Publications
15. Keiffer Vitamin Research Award, 2007
16. AquaNet Travel Awards, 2006
17. ICSC-World Laboratory Scholarship, 2004