

Curriculum Vitae

Name: Dr. Eyad Masoud Atalah

Date: 13 / 11 / 2013

PERSONAL DATA

SURNAME : ATALAH

NAME: EYAD

DNI: 900921297

Passport: 2676309

Date of Birth: 20/10/1975

Nationality: Palestinian

Gender: M

Estado civil: Married with two children

Telephone: + 970 599 847 162

Address In Palestine: 261/ 600 Al-Yarmuk – Khalil Alwazir st. , Gaza Strip, Palestine.

Specialty: Aquaculture

Email: eyadatalah@gmail.com

ACADEMICAL INFORMATION

Investigator in Marine Farming Section of the Canarias Institute of Marine Science (2006-2011) and carry out some projects directed by Prof. Dr. Marisol Izquierdo.

Ph. D. : Aquaculture: Control production of aquatic organisms, 2009. University of Las Palmas, Spain. Thesis work: Importance of the proportions of dietary polyunsaturated fatty acids and antioxidants in larval development of marine fish.

M. Sc.: International Master in Aquaculture: 2004, University of Las Palmas- Canarian, Institute of Marine Sciences & Agronomic institute of Zaragoss, Spain. Thesis work: “Two microalgae *Cryptocodinium cohnii* and *Phaeodactylum tricornutum* as alternative source of essential fatty acids in starter feeds for seabream (*Sparus aurata*)”

Specialist in Aquaculture diploma: 2003, University of Las Palmas- Canarian Institute of Marine Sciences & Agronomic institute of Zaragoss, Spain

B. Sc. In Environment and Earth Science: 1998, the Islamic University, Gaza, Palestine

SCIENTIFIC OR PROFESSIONAL ACTIVITY

DATE	POSITION	INSTITUTION
1999-now	Scientific aquaculture researcher	Ministry of agriculture, Palestine

LANGUAGES OF SCIENTIFIC INTEREST (R = regular, B = good, C = correct)

LANGUAGE	SPEAK	Conversation	WRITE
Arabic	C	C	C
English	C	C	C
Spanish	C	C	C

Research line

Title: Larval aquaculture

Line investigation in aquaculture of larvae of *Sparus aurata* and *Dicentrarchus labrax*, to study the effect of feeding Microdiet since 17 days.

Line of larval nutrition research with different levels of vitamins and essential fatty acids on survival, growth, stress and the biochemical composition of the larvae.

Sustainable aquaculture line research by replacing fish oil with microalgae in marine fish aquaculture.

Participation in international committees

Workshops of XII INTERNATIONAL SYMPOSIUM FISH NUTRITION & FEEDING (oral presentation) Biaritz, France 2006

PARTICIPATION IN RESEARCH PROJECTS

PROJECT TITLE: PUFAfeed project.

FINANCIAL ENTITY: European Commission (Q5RS-2000-30271)

DATE: 2003

PROJECT TITLE: Efectos de los ácidos grasos esenciales en el desarrollo de las respuestas endocrina e inmune temprana en larvas de lubina (*Dicentrarchus labrax*).

FINANCIAL ENTITY: THE GOVERNMENT OF CANARIAS ISLANDS

DATE: 2004-2006.

Publications and Scientific-Technical Documents

Atalah, E., Hernández-Cruz, C. M., Izquierdo, M. S., Rosenlund, G., Caballero, M. J., Valencia, A., and Robaina, L. (2007). "Two microalgae *Cryptocodinium cohnii* and *Phaeodactylum tricoratum* as alternative source of essential fatty acids in starter feeds for seabream (*Sparus aurata*)". *Aquaculture* 270, 178-185.

IZQUIERDO, M.S., **ATALAH, E.**, BENÍTEZ-SANTANA, T., HERNÁNDEZ-CRUZ, C.M. y ROBAINA, L. (2007). Feeding marine fish larvae with lipid sources alternative to fish oil. Book: PRODUCCIÓN DE LARVAS DE PECES. Innovación y avances en la nutrición para contribuir al mejoramiento y escalamiento de los cultivos 137 -147 . Editorial: UC TEMUCO (ISBN: 978-956-7019-34-2). Editor: Patricio Dantagnan, Aliro Bórquez, Iván Valdebenito y Adrián Hernández, Temuco, Chile.

GANUZA, E., BENÍTEZ-SANTANA, T., **ATALAH, E.**, VEGA-ORELLANA, O., GANGA, R., IZQUIERDO, M.S. (2008). "*Cryptocodinium cohnii* and *Schizochytrium sp.* as potencial substitutes to fisheries derived oils in *Sparus aurata* microdiets". *Aquaculture* 277, 109-116.

Rachid Ganga, J. G. Bell, D. Montero, **E. Atalah**, Y. Vraskou, L. Tort, A. Fernandez and M. S. Izquierdo (2011). Adrenocorticotrophic hormone-stimulated cortisol release by the head kidney inter-renal tissue from sea bream (*Sparus aurata*) fed with linseed oil and soybean oil. *British Journal of Nutrition* 105, 238–247

Rachid Ganga, Daniel Montero, John Gordon Bell, **Eyad Atalah**, Eneko Ganuza, Orestes Vega-Orellana, Lluís Tort, Laura Acerete, Juan Manuel Afonso, Tibiabin Benítez Sanatana, Agustín Fernández Vaquero, Marisol Izquierdo (2011). Stress response in sea bream (*Sparus aurata*) held under crowded conditions and fed diets containing linseed and/or soybean oil. *Aquaculture* 311, 215–223

Betancor, M.B., **Atalah, E.**, Caballero, M.J., Benítez-Santana, T., Roo, J., Montero, D. & Izquierdo, M.S. (2011). α -Tocopherol in weaning diets for European sea bass (*Dicentrarchus labrax*) improves survival and reduces tissue damage caused by excess dietary DHA contents. *Aquaculture Nutrition*, 17, Issue 2, e112–e122.

Eyad Atalah, Carmen María Hernández-Cruz, Eneko Ganuza, Tibiabin Benítez-Santana, Rachid Ganga, Javier Roo, Daniel Montero and Marisol Izquierdo (2011). Importance of dietary arachidonic acid for the growth, survival and stress resistance of larval European sea bass (*Dicentrarchus labrax*) fed high dietary docosahexaenoic and eicosapentaenoic acids. *Aquaculture research*, 42, Issue 9, 1261-1268.

Eyad Atalah, Carmen María Hernández-Cruz, Tibiabin Benítez-Santana, Rachid Ganga, Javier Roo and Marisol Izquierdo (2011). Importance of the relative levels of dietary arachidonic acid and eicosapentaenoic acid for culture performance of gilthead seabream (*Sparus aurata*) larvae. *Aquaculture research*, 42, Issue 9, 1279-1288.

Mónica Beatriz Betancor, Sigve Nordrum, **Eyad Atalah**, Ma José Caballero, Tibiábin Benítez-Santana, Javier Roo, Lidia Robaina and Marisol Izquierdo (2012). Potential of three new krill products for seabream larval production. *Aquaculture research*, 43, Issue 3, 395-406

E. Atalah, C. M. Hernández Cruz, R. Ganga, E. Ganuza, T. Benítez-Santana, J. Roo, Fernández- Palacios, H. and M.S. Izquierdo (2012). ENHANCEMENT OF GILTHEAD SEABREAM (*Sparus aurata*) LARVAL GROWTH BY DIETARY VITAMIN E IN RELATION TO TWO DIFFERENT LEVELS OF ESSENTIAL FATTY ACIDS. *Aquaculture research*, 43, 1816- 1827.

Betancor, M.B., Caballero, M.J., Terova, G., Saleh ,R., **Atalah, E.**, Benítez-Santana, T., Bell, J., & Izquierdo, M.S. (2012). Selenium inclusion decreases oxidative stress indicators and muscle injuries in sea bass larvae fed high-DHA microdiets. *British Journal of Nutrition*, 108, 2115- 2128.

Kamil Mert Eryalçın, Javier Roo, Reda Saleh, **Eyad Atalah**, Tibiabin Benítez, Monica Betancor, Maria del Carmen Hernandez-Cruz, Marisol Izquierdo (2013). Fish oil replacement by different microalgal products in microdiets for early weaning of gilthead sea bream (*Sparus aurata*, L.). *Aquaculture Research*, 44, 819 - 828.

Betancor, M.B., Caballero, M.J., Benítez-Santana, T., Saleh, R., Roo, J., **Atalah, E.**, Izquierdo, M.S. (2013). Oxidative status and histological changes in sea bass larvae muscle in response to high dietary content of DHA. *Journal of Fish Diseases*, 36, 453-465.

Tibiábin Benítez-Santana, **Eyad Atalah**, Mónica Beatriz Betancor, María José Caballero, Carmen Mari Hernández-Cruz, Marisol Izquierdo (2014). DHA but not EPA, enhances sound induced escape behavior and Mauthner cells activity in *Sparus aurata*. *Physiology & Behavior*, 124, 65–71.

Contributions to Conference

Atalah, E., Hernandez-Cruz, C.M., Caballero, M.J., Valencia, A. Robaina, L., Izquierdo, M.S.. Two microalgae, *Cryptocodinium cohnii* and *Phaeodactylum tricorutum*, as alternative sources of essential fatty acids in started feeds for sea bream (*Sparus aurata*). XI International Symposium On Nutrition And Feeding In Fish, Poster, Tailandia, 2004

Izquierdo, M.S., Benitez-Santana, T, E., **Atalah, E.** Ganuza, J. Roo, C. M. Hernandez-Cruz. Lipid nutrition and lipid sources for marine fish larvae. Mundial acuicultura AQUA.. Oral presentation, Florencia, Italia, 2006

Atalah, E., Robaina, L., Hernández-Cruz, C.M E Izquierdo, M.S.. Partial substitution of fish oil for microalgae in starter diets for gilthead seabream *Sparus aurata*. XII International Symposium Fish Nutrition & Feeding. Oral presentation, Biarritz, France, 2006

Izquierdo, M.S., **Atalah E.**, Benítez, T., Hernández, C.M. and Robaina, L.. Feeding marine fish larvae with lipid sources alternative to fish oil. Congreso: Producción de larvas de peces: Innovación y avances en nutrición para contribuir al mejoramiento y escalamiento de los cultivos, oral Presentation, Temuco, Chile 2006

Benítez-Santana, T., Izquierdo, M.S., **Atalah, E.**, Y Hernández-Cruz , C.M.. Effect of EPA/DHA ratio on Bursa swimming speed *Sparus aurata* larvae. ASIAN – Pacific Aquaculture 2007. Poster, Hanoi, Vietnam, 2007

E. Atalah, C. M. Hernández-Cruz, D. Montero, E. Ganuza, T. Benitez-Santana, R. Ganga, J. Roo H. Fernández-Palacios Y M. S Izquierdo. Enhancement of gildhead seabream and sea bass larval growth by dietary vitamin E relation to different levels of essential fatty acids. XIII **International Symposium on Nutrition & Feeding in Fish**. Poster, Florianapolis, Brasil, 2008

Benitez-Santana, T., E. Juarez-Carrillo, M. B. Betancor, E. Ganuza, **E. Atalah**, O. Vega-Orellana, R. Ganga, C. M. Hernández-Cruz Y M. S Izquierdo. Effect of dietary fatty acids on growth performance, biochemical composition and behavior of *Sparus aurata* larvae. XIII International Symposium on Nutrition & Feeding in Fish. Poster, Florianapolis, Brasil, 2008.

Negrín, D., Montero, D., Izquierdio. M.S., **Atalah, E.**, Afonso. J.M. Dietary arachidonic acid modulates expression of stress response-related genes in european sea bass *dicentrarchus labrax* larvae. XIII International Symposium on Fish Nutrition and Feeding. Poster, Florianapolis, Brasil, 2008.

Vega-Orellana, O.M.; Ganuza, E.; Ganga, R.; Benítez-Santana, T.; **Atalah, E.**; Montero, D.; Izquierdo, MS. Effect of starvation and confinement stress on the digestive enzymes of sea bass (*dicentrarchus labrax*) juveniles. XIII International Symposium on Fish Nutrition and Feeding. Poster, Florianapolis, Brasil, 2008.

Betancor, M.B.; Caballero, M.J.; Benítez-Santana, T.; Quesada, O.; **Atalah, E.**; Montero, D.; Izquierdo, M.S. dystrophic alterations in skeletal muscle of sea bass (*dicentrarchus labrax*) larvae in relation to the dietary dha/vitamin e ratio. XIII International Symposium on Fish Nutrition and Feeding. Poster, Florianapolis, Brasil, 2008.

E. Atalah, C.M. Hernández Cruz, E. Ganuza, T. Benítez-Santana, R. Ganga, O. Vega-Orellana, J. Roo, H. Fernández-Palacios, and M.S. Izquierdo. Importance of relative levels of dietary ARA and EPA for culture performance of gilthead sea bream (*Sparus aurata*) larvae. 5th fish & shellfish larviculture symposium, Poster, ghent university, Belgium, 2009

M.B. Betancor, T. Benítez-Santana, **E. Atalah**, S. Nodrum, M.J. Caballero, J. Roo, and M.S. Izquierdo. Potential of three new krill products for sea bream (*Sparus aurata*) larval production. 5th fish & shellfish larviculture symposium, Poster, ghent university, Belgium, 2009

Tibiábin Benítez-Santana, Mónica Betancor, M José Caballero, **Eyad Atalah**, Eduardo Juárez-Carrillo, Silvia Torrecillas, Carmen M. Hernández-Cruz and Marisol Izquierdo. Evidences of the action of essential fatty acids on sea bream neuronal activity. XIV International Symposium on Fish Nutrition and Feeding. Oral Presentation, Qingdao, China, 2010.

Mónica B Betancor, M José Caballero, Tibiábin Benítez-Santana, Reda Saleh, **Eyad Atalah**, Javier Roo and Marisol Izquierdo. Histological and ultrastructural changes in sea bass (*Dicentrarchus labrax*) larvae muscle in response to high dietary content of DHA. XIV International Symposium on Fish Nutrition and Feeding. Oral Presentation, Qingdao, China, 2010.

Reda Saleh Mohamed Ibrahim, M.B. Betancor, **E. Atalah**, J. Roo, T. Benítez-Santana and M.S. Izquierdo. Effects of different dietary phospholipids levels on development of gilthead sea bream (*Sparus aurata*) larvae. XIV International Symposium on Fish Nutrition and Feeding. Poster, Qingdao, China, 2010.

E. Atalah, C. M. Hernández Cruz, E. Ganuza, T. Benítez-Santana, R. Ganga, J. Roo, H. Fernández-Palacios, and M.S. Izquierdo. Combined effect of vitamin c and vitamin e microdiets for gilthead sea bream *Sparus aurata*. XIV International Symposium on Fish Nutrition and Feeding. Poster, Qingdao, China, 2010.

Ganga, R., Bell, J.G., Montero, D., **Atalah, E.**, Acerete, L., Tort, L., Benitez Santana, T., Fernández-Vaquero, A. and Izquierdo, M.S.. Stress response in seabream (*Sparus aurata*) held under crowded conditions and fed diets with different levels of inclusion of linseed and/or soybean oil. XIV International Symposium on Fish Nutrition and Feeding. Poster, Qingdao, China, 2010.

SE: 319

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Participate in the 5, 6 international master in aquaculture (2006-2008, 2008-2010) which organized by CIHEAM, university of las palmas de gran canarias and canarias institute of marine science.

Contribution in international journals

Referee in *Aquaculture Nutrition* (Impact Factor: 1.393)

Research Awards

AWARDS: The International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), best M. Sc. thesis in 2004.

Specialization Courses Made

DATE	TITLE	PLACE
8, 1998	Feasibility study	UNRWA+ IUG, Gaza

References

Marisol Izquierdo, Profesor
University of Las Palmas de Gran Canaria.
Faculty of Marine Science, biology Department.
Tafira Baja, 35017, Las Palmas de Gran Canaria, Spain
e-mail: mizquierdo@dbio.ulpgc.es
Phone: 928-452908; 928-132900, 928-132904
Fax: 928-132908

Albert Tacon, Profesor
Aquatic Farms Ltd: 49-139 Kamehameha Hwy.,
Kaneohe, Hawaii 96744 USA
Tel: +1-808-239 2929, Cellular +1-808-203 4339.
Email: agjtacon@aol.com,
<http://www.hawaii.edu/HIMB/Faculty/tacon.html>