

Nour El Hussein

347-260-3213 | nbh@umd.edu | [linkedin.com/in/nour-el-husseini](https://www.linkedin.com/in/nour-el-husseini)

EDUCATION

University of Maryland <i>Doctor of Philosophy pre-candidate</i>	College Park, MD <i>Jan. 2020 – Present</i>
Auburn University <i>Master of Aquaculture</i>	Auburn, AL <i>May 2017 – Dec. 2018</i>
American University of Beirut <i>Bachelor of Science in Agricultural Engineering</i>	Beirut, Lebanon <i>May 2013 – June 2017</i>

EXPERIENCE

Graduate Research Assistant University of Maryland	Jan. 2020 – Present <i>College Park, MD</i>
Graduate Research Assistant Auburn University	May 2017 – Dec. 2019 <i>Auburn, AL</i>
Intern Australis Aquaculture Vietnam Ltd.	August 2018 - November 2018 <i>Nha Trang, Vietnam</i>
Undergraduate Research Intern International Center for Agricultural Research in the Dry Areas	May 2015 - August 2015 <i>Terbol, Lebanon</i>
Intern Hawa Chicken Farms	Summer 2016 <i>Byblos, Lebanon</i>

PEER REVIEWED PUBLICATIONS

Abualreesh, M.H., Myers, J., Gurbatow, J., Johnson, A., Xing, De., Wang, J., Li, S., Coogan, M.P., Vo, K., **El Hussein, N.**, Dunham, R., Butts, I. Effects of antioxidants and antifreeze proteins on cryopreservation of blue catfish (*Ictalurus furcatus*) spermatogonial stem cells. *Aquaculture* 531, 735966 (2021).

Abualreesh, M.H., Myers, J., Gurbatow, J., Johnson, A., Xing, De., Wang, J., Li, S., Coogan, M.P., Vo, K., **El Hussein, N.**, Dunham, R., Butts, I. Development of a spermatogonial stem cell cryopreservation protocol for blue catfish. *Cryobiology* 97, 46-52 (2020).

Hettiarachchi, D., Alston, V., Gurbatow, G., Vo, K., Zadmajid, V., Coogan, M.P., Xing, D., **El Hussein, N.**, ... Butts, I. Donor body size and sex steroid hormones impact gametogonia production for creation of xenogenic catfish. *Aquaculture* 528, 735579 (2020).

Myers, J. N., Nichols, Z. G., Abualreesh, M. H., **El Hussein, N.**, Taylor, Z. A., Coogan, M. P., ... Butts, I. A. Impact of sperm density on hatch success for channel catfish (*Ictalurus punctatus*) ♀ × blue catfish (*Ictalurus furcatus*) ♂ hybrid production. *Aquaculture* 521, 735024 (2020).

MANUSCRIPTS IN PREPARATION

Simora, R.M.C., Wang, W., Coogan, M., **El Hussein, N.**, Terhune, J.S., Dunham, R.A. Effectiveness of cathelicidin antimicrobial peptide against ictalurid catfish bacterial pathogens. In review (*Journal of Aquatic Animal Health*).

Zadmajid, V., Myers, J.N., Nichols, Z., Abualreesh, M., **El Hussein, N.**, Dunham, R.A., Butts, I.A.E. Regulatory mechanisms of extracellular ions and pH on sperm motility in blue catfish, *Ictalurus furcatus*. To be submitted to *Animal Reproduction Science*.

PRESENTATIONS

El Hussein, N., Ali, A., Tobasei, R., Salem, M. Crosstalk among lncRNAs, microRNAs and mRNAs in the muscle ‘degradome’ of Nile Tilapia. University of Maryland 2021 Graduate Research Appreciation Day 2021.

El Hussein, N., Ali, A., Tobasei, R., Salem, M. Crosstalk among lncRNAs, microRNAs and mRNAs in the muscle ‘degradome’ of Nile Tilapia. University of Maryland 2021 3MT competition.

Simora, R., Li, S., Coogan, M., **El Hussein, N.**, Wang, W., Terhune, J., Liles, M., Dunham, R. 2020. ‘Cathelicidin antimicrobial peptide enhances protection of channel and channel-blue hybrid catfish against *Aeromonas hydrophila* and *Edwardsiella ictaluri* infections’, paper presented to Aquaculture America 2020, Honolulu, HI, February 9-12, page 620. <https://www.was.org/meeting/code/AA2020>

Abualreesh, M.H., Gurbatow, J., Hettiarachchi D., Alston, V., Hallas V.S., Coogan, M.P., **El Hussein, N.**, Dunham, R., Butts, I. 2020. ‘Effects of cryoprotectants and freezing rates for preserving spermatogonial stem cells of blue catfish’, abstract presented to Aquaculture America 2020, Honolulu, HI, February 9-12, page 9. <https://www.was.org/meeting/code/AA2020>

Xing, D., Bangs, M., Simora, R., Wang, W., **El Hussein, N.**, ... Dunham, R. ‘Generation of knock-in transgenic channel catfish *Ictalurus punctatus* carrying elongase gene from masu salmon *Oncorhynchus masou* and desaturase genes from rabbitfish *Siganus canaliculatus* using CRISPR/CAS9, Tol2 transposon system and double electroporation approaches’, abstract presented to Aquaculture America 2020, Honolulu, HI, February 9-12, page 706. <https://www.was.org/meeting/code/AA2020>

TEACHING

Introduction to Aquaculture | *Responsibilities*: teaching lab and lecture, writing assessments, and grading. Fall 2020, Department of Animal and Avian Sciences, University of Maryland

AWARDS

Graduate Research Appreciation Day Presentation. First prize winner. **University of Maryland**, April 2021
Three-minute thesis AGNR/BMGT/PLCY/SPHL College-Level winner. **University of Maryland**, March 2021
Graduate assistantship, **University of Maryland**, January 2020
Graduate assistantship, **Auburn University**, January 2019
E.T York International Scholars Program, **Auburn University**, September 2017
College of Agriculture Travel Abroad Scholarship, **Auburn University**, September 2017
Graduate assistantship, **Auburn University**, May 2017
Dean’s Honor List, **American University of Beirut**, May 2013 - January 2017