

Curriculum Vitae

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IZHAR A. KHAN

ADDRESS AND CONTACT INFORMATION

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EDUCATION

Ph.D., Zoology (Endocrinology), Banaras Hindu University, Varanasi, India, 1990
M.S., Zoology, Aligarh Muslim University, Aligarh, India, 1983
B.S., Zoology (Honors), Aligarh Muslim University, Aligarh, India, 1981

PROFESSIONAL EXPERIENCE

09/2019-present	Associate Professor, Department of Biological and Environmental Sciences, Texas A&M University-Commerce, Texas
09/2013-08/2019	Assistant Professor, Department of Biological and Environmental Sciences, Texas A&M University-Commerce, Texas
12/2010-08/2013	Research Leader, US Fish & Wildlife Service, Southwestern Native Aquatic Resources & Recovery Center, Dexter, New Mexico
08/2010-12/2010	Adjunct Faculty, Department of Life Sciences, Texas A&M University-Corpus Christi, Texas
03/2009-12/2010	Natural Resources Specialist, Texas Parks & Wildlife Department, CCA-AEP Marine Development Center, Corpus Christi, Texas
09/1999-02/2009	Research Scientist/Assistant Professor, University of Texas at Austin, Marine Science Institute, Port Aransas, Texas
09/1993-08/1999	Research Associate, University of Texas at Austin, Marine Science Institute, Port Aransas, Texas
10/1991-08/1993	Postdoctoral Fellow with Dr. Peter Thomas, University of Texas at Austin, Marine Science Institute, Port Aransas, Texas

COURSES TAUGHT

Undergraduate

BSC 490, Honors Thesis, TAMUC, Spring 2021 (Carson Minter)
BSC 491, Independent Honors Readings, TAMUC, Fall 2020 (Carson Minter)
BIOL 2420, General Microbiology, TAMUC – Spring 2019; Fall 2019; Fall 2020; Fall 2021
BSC 489, Reproductive Toxicology, TAMUC – Fall 2021 (Mercedes Chicas)

- BSC 489, Endocrine Toxicology, TAMUC – Spring 2017 (Samuel Woods); Fall 2017 (Lindsey Moore & Alison Varghese); Fall 2018 (Tala Abusaad & Gwinivere Turley); Spring 2021 (Kelsey Deckard); Spring 2022 (Mercedes Chicas & Evan Wilson)
- BSC 489, Independent Study, TAMUC – Fall 2016 (Noorulann Sherwani)
- BSC 489, Zebrafish Reproduction, TAMUC – Spring 2016 (Velnesha Rabon)
- BSC 2402, Human Anatomy & Physiology II with labs, TAMUC – Fall 2015; Spring 2020 (Two lecture and five lab sections); Spring 2021
- BSC 301, Biological Literature, TAMUC – Spring 2015; Spring 2017; Spring 2019
- BSC 314 (Cross-linked with AG 314), Comparative Vertebrate Physiology, TAMUC – Every Fall (2014-present)
- BSC 425, Fundamentals of Neuroscience, TAMUC – Every Spring (2014-2021)
- BSC 423, Endocrinology (Spring 2022)
- BSC 421, Reproductive Physiology, TAMUC – Spring 2014; Spring 2016; Spring 2019; Spring 2021
- BSC 305, General (Human) Physiology with labs, TAMUC – Every Fall (2013-2021); Every Semester (2022)
- ENVS 497, Environmental Toxicology, TAMUC – Fall 2013
- MNS 152L, Physiological Ecology of Fishes Laboratory, UT-Austin – Summer 2007
- MNS 152S, Principles of Marine Science Seminar, UT-Austin – Summer 2007
- MNS 355C, Physiology of Fishes, UT-Austin – Spring 2005 & 2007
- MNS 370, Special Studies in Marine Science, UT-Austin – Summer 2003 (David Lim & J.D. Woodward); Summer 2005 (Luke Cantu); Summer 2006 (Aaron Conti); Summer 2007 (Marc Duke)
- MNS 270, Special Studies in Marine Science, UT-Austin – Fall 2006 (Luke Cantu)
- MNS 353, Topics in Marine Science: Marine Fish Physiology, UT-Austin – Fall 2002

Graduate

- BSC 552, Comparative Animal Physiology – Fall 2021
- BSC 527, Human Physiology, TAMUC – Spring 2018 & 2020
- BSC 522, Reproductive Physiology, TAMUC – Spring, 2017, 2019, & 2021
- BSC 523, Vertebrate Endocrinology, TAMUC – Spring 2016, 2018, & 2022
- BSC 524, Endocrine Toxicology, TAMUC – Fall, 2014, 2016, 2018, & 2020
- BSC 595, Research Literature and Techniques (Teach and advise completion of independent research review papers, and administer comprehensive exams for non-thesis/online MS in Biology students), TAMUC – Fall 2017 (16 out of 17 students graduated)
- BSC 595, Research Literature and Techniques (Advise completion and defense of independent research review papers), TAMUC – Spring 2015 (Nicole Charlie & Bianca Vidaurri); Fall 2016 (Daphne Rickard & Arthur Thompson); Spring 2017 (Telly Chaverria)
- BSC 589, Independent Study (Compile literature & prepare drafts of individual thesis proposal), TAMUC – Fall 2017 (Schirin Amin-Allen)
- BSC 589, Reproductive Toxicology (Compile literature & prepare drafts of individual thesis proposals), TAMUC – Fall 2015 (Panita Rai & Taelah Wooten); Fall 2020 (Gwinivere Turley)
- BSC 589, Independent Study – Thyroid Disorders and Pregnancy (Compile literature & prepare drafts of an individual research paper), TAMUC – Fall 2014 (Nicole Charlie)
- BSC 589, Endocrinology (Compile literature & prepare drafts of individual research paper/thesis proposal), TAMUC – Fall 2014 (Era Maskey & Michael Gray)

BSC 518, Thesis, TAMUC – Spring 2015 (Era Maskey); Summer I & II, 2015 (Era Maskey); Summer I, 2016 (Era Maskey & Taelah Wooten) & Summer II, 2016 (Taelah Wooten); Spring 2017 (Taelah Wooten); Summer I 2017 (Taelah Wooten & Schirin Amin-Allen); Summer II, 2017 (Schirin Amin-Allen); Fall 2018 (Schirin Amin-Allen); Spring 2019 (Schirin Amin-Allen); Spring 2021 (Gwinivere Turley); Fall 2021 (Gwinivere Turley); Spring 2022 (Gwinivere Turley)

BIOS 427, Techniques in Cell and Molecular Biology – Individual Instruction Laboratory Course (Lesley Kirkes, MS student at Lehigh University) offered at Southwestern Native Aquatic Resources Center, Dexter, NM – Fall 2011

FAMA 5312, Mariculture Techniques (Lecture and Lab), TAMU-Corpus Christi – Fall 2010

MNS 384U, Reproductive Physiology of Fishes, UT-Austin – Fall 2006

MNS 483C, Adaptations to the Marine Environment, UT-Austin – Spring 2003 & 2004

MNS 191, Seminar in Marine Science, UT-Austin – Spring 2002

AWARDS/HONORS

Spring 2017 Nominated for the Paul W. Barrus Distinguished Faculty Award for Teaching, Faculty Senate, Texas A&M University-Commerce

Fall 2016 Excellence in Teaching Award, TAMUC Chapter of the National Society of Leadership and Success, Sigma Alpha Pi

Spring 2006 Teaching Excellence Award, College of Natural Sciences, University of Texas at Austin

SUPERVISION OF GRADUATE STUDENTS & POSTDOCTORAL FELLOWS

Current Graduate Students

Schirin Amin-Allen, MS in Biology (**Thesis**)

Gwinivere Turley, MS in Biology (**Thesis**)

Elizabeth Anaya, **Online** MS in Biology

Andrea Durbin, **Online** MS in Biology

Kandis Elder, **Online** MS in Biology

Terry Furrh, **Online** MS in Biology

Prizila Garcia, **Online** MS in Biology

Luis Gutierrez, **Online** MS in Biology

Zackary Hevron, **Online** MS in Biology

Tracy Holtz, **Online** MS in Biology

Samuel Koch, **Online** MS in Biology

Amber Miller, **Online** MS in Biology

Heather Rogers, **Online** MS in Biology

Angela Rouse, **Online** MS in Biology

Brittany Toomer, **Online** MS in Biology

MS Thesis Option Students Graduated at Texas A&M University-Commerce

2. Taelah Wooten, MS in Biology – Summer 2017
Thesis: Neuroendocrine disruption by 17 α -ethinylestradiol and bisphenol-A in zebrafish
1. Era Maskey, MS in Biology – Summer 2016

Thesis: Zebrafish oocyte maturation bioassay as a screening tool for selected environmental chemicals

Non-Thesis/Online MS in Biology Students Advised/Graduated

18. Steven Atz, **Online MS in Biology** – Fall 2021
17. Laurie Slone, **Online MS in Biology** – Fall 2021
16. Shawn Bittick, **Online MS in Biology** – Summer 2021
15. Kimberly Rodriguez, **Online MS in Biology** – Spring 2021
14. Kelly Doyle, **Online MS in Biology** – Fall 2020
13. Jessica Maldonado, **Online MS in Biology** – Spring 2020
12. Megan Covalt, **Online MS in Biology** – Fall 2019
11. Velnesha Rabon, **Non-Thesis MS in Biology** – Spring 2019
10. Erin Griffin, **Online MS in Biology** – Fall 2018
9. Brandy Wooden, **Non-Thesis MS in Biology** – Spring 2018
8. Catarino Morales, **Online MS in Biology** – Fall 2017
7. Terri Wendel, **Online MS in Biology** – Fall 2017
6. Robert Wright, **Online MS in Biology** – Fall 2017
5. Telley Chaverria, **Online MS in Biology** – Spring 2017
4. Daphne Peters-Rickard, **Online MS in Biology** – Fall 2016
3. Arthur Thompson, **Online MS in Biology** – Fall 2016
2. Bianca Vidaurri, **Online MS in Biology** – Spring 2015
1. Nicole Charlie, **Online MS in Biology** – Spring 2015

BSC 595 Research Review Papers Advised for Non-Thesis/Online Students

21. Alyssa Almendarez, **Online MS in Biology** – Fall 2017
Research Review: The Pathology of Endometriosis (*Reproductive Physiology*)
20. Erin Behunin, **Online MS in Biology** – Fall 2017
Research Review: Amyloid-Beta Accumulation, Clearance and Associated Plaques in the Brains of Alzheimer's Patients (*Neuroscience*)
19. Goksel Dunder, **Online MS in Biology** – Fall 2017
Research Review: Effects of Climate Change on Marine Animals (*Climate Change Biology*)
18. Sara Epp, **Online MS in Biology** – Fall 2017
Research Review: Climate Change and Plant Biodiversity in the Neo-Tropical Cloud Forests (*Climate Change Biology*)
17. Charles Hanson, **Online MS in Biology** – Fall 2017
Research Review: Effects of Hypercortisolism on Cardiovascular and Metabolic Health (*Endocrinology*)
16. Amanda Humphrey, **Online MS in Biology** – Fall 2017
Research Review: Impacts of Global Climate Change on Mammals (*Climate Change Biology*)
15. Beverly McCroskey, **Online MS in Biology** – Fall 2017
Research Review: Infertility and Miscarriage Caused by Intrauterine Adhesions (*Reproductive Physiology*)
14. Catarino Morales, **Online MS in Biology** – Fall 2017

- Research Review:** Bisphenol A and its Effects on Non-Insulin Dependent Diabetes Mellitus (*Endocrine Toxicology*)
13. Erica Poole, **Online MS** in Biology – Fall 2017
Research Review: Climate Change Effects on Species Abundance and Richness (*Climate Change Biology*)
 12. Lamecia Rhodes, **Online MS** in Biology – Fall 2017
Research Review: The Africanized Honey Bee in Southeastern United States (*Wildlife Biology*)
 11. Segovia, Maria, **Online MS** in Biology – Fall 2017
Research Review: Out of Sync: How Climate Change is Affecting Long-Distance Migratory Birds (*Climate Change Biology*)
 10. Perry Siegel, **Online MS** in Biology – Fall 2017
Research Review: Effects of Climate Change on the Establishment, Distribution and Range Expansion of Non-Native Fish Species (*Climate Change Biology*)
 9. Danielle Sims, **Online MS** in Biology – Fall 2017
Research Review: Hypothyroidism and Hashimoto's Thyroiditis (*Endocrinology*)
 8. Terri Wendel, **Online MS** in Biology – Fall 2017
Research Review: Polycystic Ovary Syndrome (*Reproductive Physiology*)
 7. Stephen Williams, **Online MS** in Biology – Fall 2017
Research Review: Comparing Requirements for Large Human Populations to the Effects of Climate Change (*Climate Change Biology*)
 6. Robert Wright, **Online MS** in Biology – Fall 2017
Research Review: Hypogonadism and Anabolic Steroids (*Reproductive Physiology*)
 5. Telly Chaverria, **Online MS** in Biology – Spring 2017
Research Review: Androgens and Autism (*Neuroscience*)
 4. Daphne Peters-Rickard, **Online MS** in Biology – Fall 2016
Research Review: Juvenile-Onset Insulin-Dependent Diabetes Mellitus (*Endocrinology*)
 3. Arthur Thompson, **Online MS** in Biology – Fall 2016
Research Review: Potential Causes of Colony Collapse Disorder and the Role of CCD in Pollinator Declines (*Conservation Biology*)
 2. Bianca Vidaurri, **Online MS** in Biology – Spring 2015
Research Review: Rio Grande Water Pollution and Its Effects along the Texas-Mexico Border (*Aquatic Toxicology*)
 1. Nicole Charlie, **Online MS** in Biology – Spring 2015
Research Review: Thyroid Diseases and their Effects on Pregnancy (*Endocrinology*)

Students Graduated at the University of Texas Marine Science Institute

5. Richard J. Kline, **Ph.D.** in Marine Science, Fall 2010 (Co-advisor: Dr. Holt)
Dissertation: Hormonal correlates of coloration and sexual change in the hermaphroditic grouper, *Epinephelus adscensionis*
4. Ananyo Banerjee, **M.S.** in Marine Science, Summer 2007
Thesis: Molecular cloning of FSH and LH β subunits and their regulation by estrogen in Atlantic croaker
3. Kimberly D. LeRoy, **M.S.** in Marine Science, Spring 2006

Thesis: Alterations in thyroid hormone status in Atlantic croaker (*Micropogonias undulatus*) exposed to Aroclor 1254 and selected PCB congeners

2. Wilbert D. Kucherka, **M.S.** in Mariculture, Texas A&M University-Corpus Christi, Fall 2004
Thesis: Sex differences in plasma steroid hormone levels during the early gonadal growth phase of the red drum, *Sciaenops ocellatus*

1. Sonya Mathews, **M.S.** in Marine Science, University of Texas at Austin, Fall 2001 (Co-advisor: Dr. Thomas)
Thesis: Effects of the maturation-inducing steroid on LH secretion and the GnRH system at different stages of the gonadal cycle in the Atlantic croaker, *Micropogonias undulatus*

<u>Postdoctoral Fellows</u>	<u>Training Period</u>	<u>Current Employment</u>
Dr. Junaith S. Mohamed	2003-2006	West Virginia University Health Sciences Center, Morgantown, WV
Dr. Abby D. Benninghoff	2004-2005	Utah State University, Logan, UT

GRADUATE STUDENT COMMITTEES

Texas A&M University-Commerce, Biological and Environmental Sciences

MS in Biology Thesis Committees:

14. Mahesh Karki, Spring 2021 – Proposal Defense (Advisor: Dr. Choi)
13. Priya Biswas – Summer 2019 (Advisor: Dr. Lemanski)
12. Euitaek Yang – Summer 2018 (Advisor: Dr. Parameshwaran)
11. Zahra Barati – Spring 2018 (Advisor: Dr. Cheriyaath)
10. Ami Bhakta – Spring 2018 (Advisor: Dr. Parameshwaran)
9. Nobel Choudhury – Fall 2017 (Advisor: Dr. Cheriyaath)
8. Sirisha Chakkapalli – Fall 2017 (Advisor: Dr. Cheriyaath)
7. Swati Balluri – Summer 2016 (Advisor: Dr. Cheriyaath)
6. Shakti Gurung – Summer 2016 (Advisor: Dr. Choi)
5. Israel Chavarri – Summer 2015 (Advisor: Dr. Choi)
4. Ala Qurban – Fall 2014 (Advisor: Dr. Cheriyaath)
3. Lauren Bailey – Spring 2014 (Advisor: Dr. Lyman-Henley)
2. Ryan Scauzillo – Spring 2014 (Advisor: Dr. Lyman-Henley)
1. Jessica Robissa – Spring 2014 (Advisor: Dr. Kopachena)

Online/Non-Thesis MS in Biology Graduate Committees:

11. Jennifer Hudnall – Fall 2016 (Advisor: Dr. Choi)
10. Jennifer Myers – Fall 2016 (Advisor: Dr. Delgado-Acevedo)
9. Lisa Zimmerman – Fall 2016 (Advisor: Dr. Cheriyaath)
8. Robert Middleton – Spring 2016 (Advisor: Dr. Choi)
7. Debra Davis – Fall 2015 (Advisor: Lani Lyman-Henley)
6. Ashley Moses-Arms – Spring 2015 (Advisor: Dr. Cheriyaath)
5. Sandra Mello-Lopez – Spring 2015 (Advisor: Dr. Choi)
4. Dusty Vincer – Spring 2015 (Advisor: Dr. Cheriyaath)
3. Julia Scull – Fall 2014 (Advisor: Dr. Choi)
2. Stephanie Etienne – Fall 2014 (Advisor: Dr. Choi)

1. Ellen Melson – Summer 2014 (Advisor: Dr. Kopachena)

University of Texas at Austin, Marine Science Institute

10. Andrew Evans, Ph.D. in Marine Science, Summer 2008 (Advisor: Dr. Nunez)
9. Kenneth Webb, Ph.D. in Marine Science, Summer 2008 (Advisor: Dr. Holt)
8. Gwen Dressing, Ph.D. in Marine Science, Spring 2008 (Advisor: Dr. Thomas)
7. Caleb Harris, M.S. in Marine Science, Fall 2007 (Advisor: Dr. Thomas)
6. Christopher Tubbs, Ph.D. in Marine Science, Summer 2007 (Advisor: Dr. Thomas)
5. Megan Noel, M.S. in Marine Science, Fall 2006 (Advisor: Dr. Nunez)
4. Lucia Carreon, M.S. in Marine Science, Summer 2006 (Advisor: Dr. Holt)
3. Margaret Pace, Ph.D. in Marine Science, Summer 2005 (Advisor: Dr. Thomas)
2. Rafael Perez, Ph.D. in Marine Science, Fall 2004 (Advisor: Dr. Holt)
1. Mathew Palmtag, M.S. in Marine Science, Spring 2004 (Advisor: Dr. Holt)

UNDERGRADUATE HONORS THESIS COMMITTEES

3. Alexander Rodriguez, TAMUC, BS-Biology – Spring 2017 (Advisor: Dr. Cheriya)
2. Bernadette Peltier, TAMUC, BS-Biology – Spring 2017 (Advisor: Dr. Cheriya)
1. JiHyun Kim, TAMUC, BS-Biology – Fall 2015 (Advisor: Dr. Choi)

UNDERGRADUATE RESEARCH TRAINEES

Texas A&M University-Commerce, Biological and Environmental Sciences

12. Mercedes Chicas, Junior, BS-Biology, Fall 2020-present
11. Carson Minter, Junior, BS-Biology, Fall 2020-present
10. Kelsey Deckard, Senior, BS-Biology, Fall 2020-Spring 2021
9. Gwinivere Turley, TAMUC, Junior-Senior, BS-Biology, Spring 2018-Spring 2020
8. Tala Abusaad, TAMUC, Senior, BS-Biology, Fall 2018
7. Lindsey Moore, TAMUC, Junior-Senior, BS-Biology, Fall 2017-Spring 2019
6. Alison Varghese, TAMUC, Junior-Senior, BS-Biology, Summer 2017-Spring 2018
5. Samuel Woods, TAMUC, Senior, BS-Biology, Spring 2017-Summer 2017
4. Noorulann (Annie) Sherwani, TAMUC, Senior, BS-Biology, Fall 2016
3. Hannah Crotty, TAMUC, Junior-Senior, BS-Biology, Spring 2016-Fall 2016
2. Bernadette Johnson, TAMUC, Junior, BS-Biology, Fall 2015
1. Velnesha Rabon, TAMUC, Junior-Senior, BS-Biology, Spring 2015-Spring 2016

University of Texas at Austin, Marine Science Institute

12. Ryan Kelsey, UT-Austin, Junior, BS-Biology: Molecular Biology, Summer 2009
11. Luke Dotson, Texas A&M University-Corpus Christi, Senior, BS-Biology: Marine Studies, Spring 2008 – Spring 2009
10. Marc Duke, UT-Austin, Senior, BS-Biology: Marine and Freshwater Biology, Summer 2007
9. Jaime Speer, Texas A&M University-Corpus Christi, Senior, BS-Biology: Marine Studies, Fall 2006 – Spring 2007
8. Aaron Conti, UT-Austin, Senior, BS-Biology: Marine and Freshwater Biology, Summer 2006
7. Gretchen Stumhofer, University of North Texas, Sophomore, BS-Biology, Summer 2006

6. Joshua Machicek, Texas A&M University-Corpus Christi, Senior, BS-Biology: Marine Studies, Fall 2005 – Fall 2006
5. Justin Rogers, UT-Austin graduate, BS-Biology: Ecology, Evolution and Behavior, Fall 2005
4. Luke Cantu, Senior at UT-Austin, BS-Biology: Marine and Freshwater Biology, Summer 2005
3. Lindsay Husta, Junior at UT-Austin, BS-Biology: Ecology, Evolution and Behavior major, Summer 2004
2. David Lim, UT-Austin, Senior, BS-Biology: Marine and Freshwater Biology, Summer 2003
1. J.D. Woodward, UT-Austin, Senior, BS-Biology: Marine and Freshwater Biology, Summer 2003

UNIVERSITY & DEPARTMENTAL COMMITTEES

Texas A&M University-Commerce, Biological and Environmental Sciences (BESC)

- 2021-present Member, Biology Program Review Committee (10-Year Review)
- 2021-present Member, BESC Laboratory Coordinator Search Committee (review of applications and phone interviews in fall 2021; campus interviews ongoing)
- 2019-present Member, BESC Scholarship Committee
- 2019-present Member, BESC Tenure & Promotion Committee
- 2020-2021 Chair, BESC Molecular Biology Faculty Search Committee (Position filled starting in fall 2021)
- 2019-2020 Chair, BESC Molecular Biology Faculty Search Committee (Cancelled before interviews due to Covid-19)
- 2019 Member, BESC Ecological Genetics Faculty Search Committee (Position filled starting in spring 2020)
- 2018-present Co-Organizer with Dr. Cheriyaath, BioPride-JAMP Boot Camp
- 2018-present Member, BESC Curriculum Committee
- 2018-present Chair, BESC Space Analysis/Allocation/Planning Committee
- 2018-2019 Member, BESC Webpage Design and Update Committee
- 2016-present Institutional Effectiveness (IE) Committee: IE Plan and Reports Author for the MS in Biology Programs (Thesis and Non-Thesis/Online Options)
- 2016-present Quality Enhancement Program (QEP) Core Committee: QEP Mentor for BESC
- 2014-present Member, BESC Graduate Recruitment/Admissions Committee
- 2013-2018 Quality Enhancement Program Core Committee: College of Science and Engineering Representative
- 2014-2016 Member, BESC Library Committee
- 2014-2016 Member, BESC Public Relations/Publications/Advertising Committee
- 2014-2016 Member, BESC Undergraduate Recruitment, Outreach and Mane Event Committee
- 2014-2016 Chair, BESC Space Analysis/Allocation/Planning Committee
- 2013-2015 Member, BESC Scholarship Committee
- 2013-2014 Member, BESC Space Analysis/Allocation/Planning Committee
- 2013-2014 Member, Environmental Science Faculty Search Committee (Hydrology-Geology), BESC (recruitment completed in the 2nd round)
- 2013-2014 Member, Environmental Science Faculty Search Committee (Environmental Science-Toxicology), BESC (recruitment completed in the 2nd round)

University of Texas at Austin, Marine Science Institute (MSI)

2007-2008	Member, Graduate Studies Committee, MSI Strategic Planning
2006-2008	Chair, Schweppe Endowed Lectures Committee
2005-2006	Chair, MSI Seminar Committee
2004-2008	Member, MSI Seminar Committee
2004-2005	Chair, MSI Library Committee
2004 & 2005	Coordinator, Ph.D. Candidacy Examinations
2003	Chair, MSI Postdoctoral Fellow Selection Committee
2002-2003	Member, Facilities Committee, MSI Strategic Planning
2002-2003	Member, College of Natural Sciences Safety Committee
2000-2006	Member, MSI Library Committee
2000-2004	Member, MSI Safety Committee

GRANTS & CONTRACTS (Total funding: \$3,034,451; Khan's share: \$1,241,750)

2018-2022	“Development and validation of a gonadotropin-releasing hormone ELISA in zebrafish,” Alpha Diagnostics International, Inc. \$7,000.
2016-2017	“Mechanisms of reproductive neuroendocrine toxicity in zebrafish,” TAMUC Faculty Research Enhancement Program. \$10,000.
2011-2012	“Salinity tolerance of the early life stages of Rio Grande silvery minnow,” US Bureau of Reclamation. \$66,275.
2006-2010	“Early life stages of economically important fishes on the Texas coast,” Sid Richardson Memorial Fund. \$600,000 total direct costs (Khan: \$186,000). Co-PI with G.J. Holt & S.A. Holt.
2008-2009	“Broodstock collection and induced spawning of common snook,” Coastal Conservation Association. \$30,500.
2006-2007	“G protein-coupled receptor 54 and its interactions with three gonadotropin-releasing hormones in fish,” UT-Austin Research Grant. \$6,000.
2004-2006	“Development of cobia (<i>Rachycentron canadum</i>) aquaculture in Texas,” Advanced Technology Program of the Texas Higher Education Coordinating Board. \$169,139 total (Khan: \$66,113). Co-PI with G.J. Holt.
2003-2006	“Mechanisms of reproductive neuroendocrine toxicity,” National Institutes of Health. \$764,963 total (Khan: \$369,482). Co-PI with P. Thomas.
2002-2005	“Research on red drum and other marine fish,” Sid W. Richardson Foundation. \$495,000 total (Khan: \$161,281). Co-PI with G.J. Holt & S.A. Holt.
2002-2005	“Early detection of reproductive endocrine disruption in Atlantic croaker exposed to anthropogenic stressors using gene microarrays,” NOAA-National Sea Grant's Marine Biotechnology Program: \$287,876 total (Khan: \$35,750). Co-PI with P. Thomas & B.S. Nunez.
2003-2004	“Research Internship Award,” The University of Texas at Austin. \$16,000 plus tuition and benefits to support a research intern in Khan's laboratory.

1997-2001 “Mechanisms of reproductive neuroendocrine toxicity,” National Institutes of Health. \$588,698 total (Khan: \$294,349). Co-PI with P. Thomas.

PROFESSIONAL SOCIETIES

1999-present American Fisheries Society
1996-present Society of Environmental Toxicology and Chemistry
2007-2019 Society for Integrative and Comparative Biology
2003-2013 World Aquaculture Society
2005-2009 American Neuroendocrine Society
1994-2009 Society for the Study of Reproduction

PROFESSIONAL SERVICE

Associate editor

2003-2013 *Journal of the World Aquaculture Society*

NSF Graduate Research Fellowship Program Panelist

Physiology, Organismal and Developmental Biology Panel, December 2018 – January 2019

Physiology, Organismal and Developmental Biology Panel, December 2017 – January 2018

Animal Sciences Panel, February 2008

Plant and Animal Sciences Panel, February 2007

Proposal reviews (# of proposals for each agency)

Center for Tropical and Subtropical Aquaculture (1); National Oceanic and Atmospheric Administration–Marine Fisheries Initiative (NOAA–MARFIN) Program (1); NOAA – National Marine Fisheries Service (2); National Science Foundation (10); National Fish and Wildlife Foundation (1); NOAA-Sea Grant Programs, AL-MS Consortium (1), MD (3) and NC (2); The Israel Science Foundation (2); University of Texas Research Grant (5); US-Israel Bi-National Agricultural Research and Development Fund (1); United States Department of Agriculture (4).

Journal manuscript reviews (# of reviews for each journal)

American Journal of Physiology (4); Aquaculture (4); Aquaculture Research (3); Aquatic Toxicology (7); Biochemistry and Cell Biology (3); Biology of Reproduction (14); Brain Research (4); Chemosphere (4); Comparative Biochemistry and Physiology (8); Endocrinology (3); Fish Physiology and Biochemistry (5); Fisheries Management and Ecology (2); General and Comparative Endocrinology (7); Journal of Aquatic Animal Health (3); Journal of Experimental Zoology (3); Journal of Fish Biology (3); Journal of Neuroendocrinology (3); Journal of the World Aquaculture Society (36); Marine Environmental Research (7); Molecular and Cellular Endocrinology (2); North American Journal of Aquaculture (5); Pesticide Biochemistry and Physiology (2); PLoS One (1); Reviews in Fish Biology and Fisheries (3); Science of the Total Environment (3); Toxicology (4); Transactions of the American Fisheries Society (3), and Veterinary Medicine and Science (1).

Judge for student presentations/posters

November 2019 Thirteen undergraduate/graduate student posters at the 16th TAMU System Pathways Symposium at Texas A&M International University, Laredo, TX

April 2019 Eight undergraduate and graduate student posters at the Annual Research Symposium, Texas A&M University-Commerce, TX

- April 2018 Twelve undergraduate and graduate student posters at the Annual Research Symposium, Texas A&M University-Commerce, TX
- March 2018 Eight student (MS and Ph.D.) posters at the graduate research symposium sponsored by the Federation of the University of North Texas, Texas Woman's University and Texas A&M University-Commerce, TX
- November 2017 Sixteen undergraduate/graduate student posters at the 14th TAMU System Pathways Symposium at the Tarleton State University-Stephenville, TX
- April 2017 Ten undergraduate and graduate student posters at the Annual Research Symposium, Texas A&M University-Commerce, TX
- March 2017 Four student posters at the graduate research symposium sponsored by the Federation of the University of North Texas, Texas Woman's University and Texas A&M University-Commerce, TX
- November 2016 Five undergraduate and graduate student posters and six undergraduate oral presentations at the 13th TAMU System Pathways Symposium at the Prairie View A&M University-Prairie View, TX
- April 2016 Four student posters at the graduate research symposium sponsored by the Federation of the University of North Texas, Texas Woman's University and Texas A&M University-Commerce, TX
- April 2016 Twelve undergraduate and graduate student posters at the Annual Research Symposium, Texas A&M University-Commerce, TX
- October 2015 Eleven undergraduate and graduate student posters at the 12th TAMU System Pathways Symposium at the Texas A&M University-Corpus Christi, TX
- March 2015 Six student posters at the graduate research symposium sponsored by the Federation of the University of North Texas, Texas Woman's University and Texas A&M University-Commerce, TX
- January 2010 Six poster and four oral presentations at the Texas Chapter of the American Fisheries Society Meeting, Athens, Texas

PUBLICATIONS (*= STUDENT AUTHORS)

Manuscript Submitted

Khan, I.A., Kline, R.J., Rahman, M.S., and Vega, R.R. A non-invasive method for sex identification in the spotted seatrout, *Cynoscion nebulosus* and rock hind, *Epinephelus adscensionis*. *Aquaculture Research*.

Published

48. Rahman, M.S, Kline, R.J., Vazquez, O.A., **Khan, I.A.** and Thomas P. 2020. Molecular characterization and expression of arginine vasotocin V1a2 receptor in Atlantic croaker brain: Potential mechanisms of its downregulation by PCB77. *Journal of Biochemical and Molecular Toxicology* e22500. <https://doi.org/10.1002/jbt.22500>
47. *Maskey, E., *Crotty, H., *Wooten, T. and **Khan, I.A.** 2019. Disruption of oocyte maturation by selected environmental chemicals in zebrafish. *Toxicology in Vitro*. 54:123-129.

46. *Yang, E., *Gavini, K., *Bhakta, A., Dhanasekaran, M., **Khan, I.** and Parameshwaran, K. 2018. Streptozotocin-induced hyperglycemia stimulates molecular signaling that promotes cell cycle reentry in mouse hippocampus. *Life Sciences* 205:131-135.
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15. Thomas, P. and **Khan, I.A.** 1997. Mechanisms of chemical interference with reproductive endocrine function in Sciaenid fishes. *In: Chemically Induced Alterations in Functional Development and Reproduction of Fishes*. R.M. Rolland, M. Gilbertson, and R.E. Peterson (eds.), Chapter 3, pp. 29-51. SETAC Press, Pensacola, FL.
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13. **Khan, I.A.** and Thomas, P. 1996. Disruption of neuroendocrine function in Atlantic croaker exposed to Aroclor 1254. *Marine Environmental Research* 42:145-149.
12. **Khan, I.A.** and Thomas, P. 1995. Neuroendocrine control of gonadotropin II release in Atlantic croaker: involvement of gamma-aminobutyric acid. *In: Reproductive Physiology of Fish*. F.W. Goetz and P. Thomas (eds.), pp. 73, Fish Symposium 95, University of Texas Press, Austin, TX.
11. **Khan, I.A.** and Thomas, P. 1994. Seasonal and daily variations of plasma gonadotropin II response to a LHRH analog and serotonin in the Atlantic croaker (*Micropogonias undulatus*): evidence for mediation by 5-HT₂ receptors. *Journal of Experimental Zoology* 269:531-537.
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9. **Khan, I.A.** and Thomas, P. 1992. Stimulatory effects of serotonin on maturational gonadotropin release in the Atlantic croaker, *Micropogonias undulatus*. *General and Comparative Endocrinology* 88:388-396.
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5. **Khan, I.A.** and Joy, K.P. 1990. Effects of season, pinealectomy, and blinding, alone and in combination, on hypothalamic monoaminergic activity in the teleost *Channa punctatus* (Bloch). *Journal of Pineal Research* 8:277-287.
4. **Khan, I.A.** and Joy, K.P. 1990. Differential effects of photoperiod and temperature on hypothalamic monoaminergic activity in the teleost *Channa punctatus* (Bloch). *Fish Physiology and Biochemistry* 8:291-297.
3. **Khan, I.A.** and Joy, K.P. 1988. Diurnal variation in hypothalamic monoamine levels in the teleost *Channa punctatus* (Bloch) in response to melatonin under two photothermal conditions. *Fish Physiology and Biochemistry* 5:187-190.
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1. **Khan, I.A.** and Joy, K.P. 1987. Diurnal variation in, and effects of long photoperiod-raised temperature and melatonin on, hypothalamic monoamine oxidase activity in the teleost *Channa punctatus*. *Biological Rhythm Research* 18:287-292.

ABSTRACTS AND/OR ORAL PRESENTATIONS (*= STUDENT AUTHORS).

57. *Wooten, T., *Amin Allen, S., *Moore, L. and Khan, I.A. 2018. Disruption of kisspeptin-GnRH neuroendocrine pathway by environmental estrogens in zebrafish. Annual Research Symposium, TAMUC, April 2018, Commerce, Texas (Poster).
56. *Amin Allen, S., *Wooten, T., *Moore, L. and Khan, I.A. 2018. Disruption of kisspeptin-GnRH neuroendocrine pathway by environmental estrogens in zebrafish. Graduate Research Symposium of the Federation of North Texas Universities, Texas Woman's University, March 2018, Denton, Texas (Poster).
55. *Wooten, T., *Amin-Allen, S. and Khan, I.A. 2017. Neuroendocrine disruption by environmental estrogens in zebrafish. 14th Annual Pathways Symposium, Tarleton State University, November 2017, Stephenville, Texas (Poster).
54. *Wooten, T. and Khan, I.A. 2017. Neuroendocrine disruption by ethinyl estradiol and bisphenol-A in male zebrafish. Annual Research Symposium, TAMUC, April 2017, Commerce, Texas (Poster).
53. *Wooten, T. and Khan, I.A. 2016. Neuroendocrine disruption by ethinyl estradiol in zebrafish. 13th Annual Pathways Symposium, Prairie View A&M University, November 2016, Prairie View, Texas (Poster; Distinguished overall 3rd place award).

52. *Rabon, V. and Khan, I.A. 2016. Sex steroid hormone profiles during the reproductive cycle of zebrafish, *Danio rerio*. 2016 Annual Research Symposium, TAMUC, April 2016, Commerce, Texas (Poster).
51. *Maskey, E. and Khan, I.A. 2015. Zebrafish oocyte maturation bioassay as a screening tool for selected environmental contaminants. 12th Annual Pathways Symposium, Texas A&M University-Corpus Christi, October 2015, Corpus Christi, Texas (Poster).
50. Khan, I.A. and Sykes, C.L. 2013. Salinity tolerance of Rio Grande silvery minnow eggs, larvae and juveniles. AZ-NM Chapter of the American Fisheries Society Annual Meeting, February 2013, Albuquerque, New Mexico (oral presentation).
49. Thomas, P., Rahman, M.S. and Khan, I.A. 2011. Tryptophan hydroxylase: a target for neuroendocrine disruption. 16th International Symposium on Pollutant Responses in Marine Organisms, May 2011, Long Beach, California (oral presentation).
48. *Kline, R.J., Ferrara, A., Holt, G.J., Khan, I.A. and Lopez, G. 2011. Age, size at sex and evidence for sex reversal in common snook (*Centropomus undecimalis*) in South Texas. 7th Texas Bays and Estuaries Meeting, April 2011, Port Aransas, Texas (oral presentation).
47. *Bolger, M., Fox, J., Vega, R., McKee, D. and Khan, I. 2011. “Retention of tags and associated stress in the post-release survival of hatchery-reared juvenile spotted seatrout (*Cynoscion nebulosus*).” Aquaculture America 2011 Annual Meeting, February 2011, New Orleans, Louisiana (oral presentation).
46. *Kline, R.J., Holt, G.J. and Khan, I.A. 2010. “Is GnRH function mediated by AVT through an AVT receptor in a sex changing fish?” 9th International Congress of Neuroethology, August 2010, Salamanca, Spain (oral presentation).
45. Thomas, P., Rahman, M.S. and Khan, I.A. 2010. “Tryptophan hydroxylase: a target for neuroendocrine disruption, 1st International Symposium on Neuroendocrine Effects of Endocrine Disruptors at the International Congress of Neuroendocrinology 2010, July 2010, Rouen, France (oral presentation).
44. Khan, I.A., *Kline, R.J., Holt, G.J. and Vega, R.R. 2010. “Development of a non-invasive gender identification protocol for the spotted seatrout, *Cynoscion nebulosus*,” 2010 Texas Chapter of the American Fisheries Society Meeting, January 2010, Athens, Texas (oral presentation).
43. *Kline, R.J., Holt, G.J. and Khan, I.A. 2009. “Neuroendocrine control of sex change in the rock hind, *Epinephelus adscensionis*,” 2009 Annual Society for Integrative and Comparative Biology Meeting, January 2009, Boston, Massachusetts (oral presentation).
42. Khan, I.A., *Kline, R.J. *Galima, M.M. and Mohamed, J.S. 2008. “Kisspeptin stimulates GnRH synthesis and release in Atlantic croaker,” 2008 Annual Society for Integrative and Comparative Biology Meeting, January 2008, San Antonio, Texas (oral presentation).
41. *Galima, M.M. and Khan, I.A. 2008. “Stimulatory effects of insulin-like growth factor-1 on GnRH system in the teleost fish cobia,” 2008 Annual Society for Integrative and Comparative Biology Meeting, January 2008, San Antonio, Texas (oral presentation).

40. Khan, I.A., Mohamed, J.S., *Galima, M.M. and *Kline, R.J. 2007. “Neuroendocrine regulation of multiple gonadotropin-releasing hormones in a fish model: Kisspeptin-GPR54 pathway,” 40th Annual Meeting of the Society for the Study of Reproduction, July 2007, San Antonio, Texas (oral presentation).
39. *Galima, M.M. and Khan, I.A. 2007. “Insulin-like growth factor-1 stimulates gonadotropin-releasing hormone synthesis and release in fish,” 40th Annual Meeting of the Society for the Study of Reproduction, July 2007, San Antonio, Texas (oral presentation).
38. Khan, I.A., Mohamed, J.S., *Banerjee, A., *Galima, M.M. and *Kline, R.J. 2007. “Localization of GPR54 expression on GnRH neuronal elements and their regulation by gonadal steroids in Atlantic croaker,” 8th International Symposium on Reproductive Physiology of Fish, June 2007, St. Malo, France (oral presentation).
37. Thomas, P., Rahman, M.S., Khan, I.A., Kummer, J.A. 2007. Widespread endocrine disruption and reproductive impairment in an estuarine fish population exposed to seasonal hypoxia. 14th International Symposium on Pollutant Responses in Marine Organisms, May 2007, Florianopolis, Brazil (oral presentation).
36. Khan, I.A., Mohamed, J.S., Benninghoff, A.D. and Holt, G.J. 2007. “Developmental expression of the G protein-coupled receptor 54 and three GnRH mRNAs in cobia,” The International Triennial Meeting of World Aquaculture Society, National Shell Fisheries Association and Fish Culture Section of the American Fisheries Society, February 2007, San Antonio, Texas (oral presentation).
35. *Kline, R.J., Soyano, K., Tokushima, M. and Khan, I.A. 2007. “Effect of FSH and androgens on the sexual inversion of sevenband grouper, *Epinephelus septemfasciatus*,” The International Triennial Meeting of World Aquaculture Society, National Shell Fisheries Association and Fish Culture Section of the American Fisheries Society, February 2007, San Antonio, Texas (oral presentation).
34. Khan, I.A. and Mohamed, J.S. 2006. Multiple gonadotropin-releasing hormones and their regulation by gonadal steroids in Atlantic croaker. Western Conference of Comparative Endocrinology, March 2006, Newport, Oregon (oral presentation).
33. Khan, I.A., Mohamed, J.S. and Kucherka, W.D. 2006. Isolation and expression of three GnRH messengers in discrete brain areas of the red drum, *Sciaenops ocellatus*. Aquaculture America 2006 Annual Meeting, February 2006, Las Vegas, Nevada (oral presentation).
32. Mohamed, J.S., Benninghoff, A.D., Holt, G.J. and Khan, I.A. 2006. Cloning and differential expression of three GnRH mRNAs during larval and gonadal development in the cobia, *Rachycentron canadum*. Aquaculture America 2006 Annual Meeting, February 2006, Las Vegas, Nevada (oral presentation).
31. *LeRoy, K.D., Thomas, P. and Khan, I.A. 2005. Alterations in thyroid hormone status in Atlantic croaker exposed to Aroclor 1254 and selected PCB congeners. 26th Annual meeting of the Society of Environmental Toxicology and Chemistry, November 2005, Baltimore, Maryland (oral presentation).

30. Khan, I.A., Berg, H. and Thomas, P. 2005. Neuroendocrine toxicity of Aroclor 1254 and selected PCB congeners in Atlantic croaker. 26th Annual meeting of the Society of Environmental Toxicology and Chemistry, November 2005, Baltimore, Maryland (oral presentation).
29. Thomas, P., Rahman, M.S., Kummer, J.A. and Khan, I.A. 2005. Neuroendocrine changes associated with reproductive dysfunction in Atlantic croaker after exposure to hypoxia. 26th Annual meeting of the Society of Environmental Toxicology and Chemistry, November 2005, Baltimore, Maryland (oral presentation).
28. Khan, I.A. and Thomas, P. 2005. PCB congener-specific disruption of reproductive neuroendocrine function in Atlantic croaker. 13th International Symposium on Pollutant Responses in Marine Organisms, June 2005, Alessandria, Italy (oral presentation).
27. *Kucherka, W.D., Thomas, P., McKee, D.A. and Khan, I.A. 2005. Sex differences in steroid hormone profiles in the red drum, *Sciaenops ocellatus*. Aquaculture America 2005 Annual Meeting, January 2005, New Orleans, Louisiana (oral presentation).
26. Khan, I.A., Mohamed, J.S. and Thomas, P. 2004. Isolation, cloning and expression of three different GnRH messengers, and localization of a progestin membrane receptor in fish brain. 5th International Symposium on Fish Endocrinology, September 2004, Castellón, Spain (oral presentation).
25. Khan, I.A. and Thomas, P. 2003. Aroclor 1254 impairs serotonergic neurotransmission by inhibiting tryptophan hydroxylase activity in fish and rats. 24th Annual meeting of the Society of Environmental Toxicology and Chemistry, November 2003, Austin, Texas (oral presentation).
24. Khan, I.A. and Thomas, P. 2003. Aroclor 1254-induced impairment of hypothalamic tryptophan hydroxylase activity involves protein degradation and oxidative damage. 12th International Symposium on Pollutant Responses in Marine Organisms, May 2003, Tampa, Florida (oral presentation).
23. Khan, I.A. 2003. Application of neuroendocrinology to new species in aquaculture. Aquaculture America 2003 Annual Meeting, February 2003, Louisville, Kentucky (oral presentation).
22. Khan, I.A. and P. Thomas. 2002. Neuroendocrine sites and mechanisms of toxicity of environmental chemicals as investigated in a fish model. 35th Annual Meeting of the Society for the Study of Reproduction, July 2002, Baltimore, Maryland (oral presentation).
21. Thomas, P. and I. Khan. 2001. Sites and mechanisms of chemical interference with neuroendocrine reproductive function in Atlantic croaker. 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 2001, Baltimore, Maryland (poster presentation).
20. Rose, K.A., P. Thomas, C.A. Murphy, L.A. Fuiman, S.L. Diamond, L. Ford, I.D. McCarthy, I. Khan, and M. Alvarez. 2001. 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 2001. Baltimore, Maryland (oral presentation).

19. Khan, I.A. and P. Thomas. 2000. Mechanism of PCB-induced disruption of neuroendocrine function in fish. 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 9-13, 2000, Nashville, Tennessee (oral presentation).
18. Khan, I.A. and P. Thomas. 2000. Neuroendocrine disruption of gonadotropin secretion by Aroclor 1254 involves inhibition of hypothalamic tryptophan hydroxylase activity. 4th International Symposium on Fish Endocrinology, July 2000, Seattle, Washington (oral presentation).
17. Khan, I.A. and P. Thomas. 1999. Neuroendocrine control of gonadotropin II secretion in Atlantic croaker: steroid feedback influences. 6th International Symposium on Reproductive Physiology of Fish, July 4-9, 1999, Bergen, Norway (oral presentation).
16. Khan, I.A. and P. Thomas. 1999. Mechanisms of neuroendocrine disruption by Aroclor 1254 and lead in a marine teleost. 10th International Symposium on Pollutant Responses in Marine Organisms, April 1999, Williamsburg, Virginia. Abstract # O97 (oral presentation).
15. Thomas, P., T. Loomis, T. Sperry, I. Khan, and C. Detweiler. 1999. Interference with the genomic and nongenomic actions of steroids in fishes by chemicals: role of receptor binding. 10th International Symposium on Pollutant Responses in Marine Organisms, April 1999, Williamsburg, Virginia (oral presentation).
14. Khan, I.A. and P. Thomas. 1998. GABA exerts both inhibitory and stimulatory influences on gonadotropin II release in Atlantic croaker. 31st Annual Meeting of the Society for the Study of Reproduction, Texas A&M University, August 1998, College Station, Texas. *Biol. Reprod.* 58 (Suppl. 1): Abstract # 431 (oral presentation).
13. Khan, I.A. and P. Thomas. 1997. Estradiol and o,p'-DDT stimulate gonadotropin release in Atlantic croaker. 9th International Symposium on Pollutant Responses in Marine Organisms, April 1997, Bergen, Norway (oral presentation).
12. Khan, I.A. and P. Thomas. 1996. Lead exposure impairs reproductive neuroendocrine function in Atlantic croaker. 17th Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 1996, Washington DC (oral presentation).
11. Thomas, P., I.A. Khan, and D. Breckenridge-Miller. 1996. Sex differences in the effects of o,p'-DDT on gonadal physiology and development in Atlantic croaker. 17th Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 1996, Washington DC (poster presentation).
10. Khan, I.A., P. Thomas, and M.B. Hawkins. 1996. Feedback control of gonadotropin II release by gonadal steroids in Atlantic croaker. 29th Annual Meeting of the Society for the Study of Reproduction, London, July 1996, Ontario, Canada (oral presentation).
9. Khan, I.A. and P. Thomas. 1995. Correlation of altered hypothalamic monoamine metabolism with pituitary gonadotropin release in the Atlantic croaker (*Micropogonias undulatus*) exposed to Aroclor 1254. 13th International Neurotoxicology Conference, March 1995, Hot Springs, AR (poster presentation).

8. Khan, I.A. and P. Thomas. 1995. Neuroendocrine control of gonadotropin II release in Atlantic croaker: involvement of gamma-aminobutyric acid. 5th International Symposium on Reproductive Physiology of Fish, July 1995, Austin, TX (oral presentation).
7. Khan, I.A. and P. Thomas. 1995. Aroclor 1254-induced alterations in hypothalamic monoamine metabolism in the Atlantic croaker: correlation with pituitary gonadotropin release. 8th International Symposium on Pollutant Responses in Marine Organisms, April 1995, Davis, CA (oral presentation).
6. Khan, I.A. and P. Thomas. 1994. Melatonin modulates gonadotropin II response to a LHRH analog in Atlantic croaker. Southwestern Regional Conference on Comparative Endocrinology, Texas Tech University, March 1994, Lubbock, TX (oral presentation).
5. Khan, I.A. and P. Thomas. 1993. Diurnal variations of plasma gonadotropin II levels in response to indolamine treatments in the Atlantic croaker. 12th International Congress of Comparative Endocrinology, May 1993, Toronto, Canada (oral presentation).
4. Khan, I.A. and P. Thomas. 1992. Further evidence for stimulatory effects of serotonin on maturational gonadotropin release in the Atlantic croaker. Southwestern Regional Conference on Comparative Endocrinology, University of Texas at Austin, March 1992, Austin, TX (oral presentation).
3. Khan, I.A. and P. Thomas. 1991. Stimulatory effects of serotonin on gonadotropin release in the Atlantic croaker. 4th International Symposium on Reproductive Physiology of Fish, July 1991, Norwich, UK (poster presentation).
2. Khan, I.A. and K.P. Joy. 1990. Effects of pinealectomy and blinding on hypothalamic monoaminergic activity in the teleost *Channa punctatus* (Bloch). All India Symposium on Comparative Endocrinology, March 1990, Pondicherry, India (oral presentation).
1. Khan, I.A. and K.P. Joy. 1989. Diurnal variations in hypothalamic monoaminergic activity in relation to photothermal conditions in the teleost *Channa punctatus* (Bloch). All India Symposium on Comparative Endocrinology, April 1989, New Delhi, India (oral presentation).

INVITED SEMINARS

- Texas A&M University-Commerce, Research presentations for biology freshmen attending the Bio-Pride workshop, Commerce, TX, August 2014-present (Every year).
- Texas A&M University-Commerce, Keynote Speaker at the Annual Research Symposium, Commerce, TX, April 2015.
- Department of Biological and Environmental Sciences, Texas A&M University-Commerce, TX, July 2013.
- Department of Biology, East Carolina University, Greenville, NC, February 2012.
- Department of Biology, Texas Southern University, Houston, TX, November 2011.
- Department of Biology, Southeast Missouri State University, Cape Girardeau, MO, April 2010.
- Department of Biology, Lamar University, Beaumont, TX, April 2009.

- Department of Biology, University of Louisiana at Monroe, LA, March 2009.
- Department of Biological Sciences, University of Texas at El Paso, TX, March 2009.
- Department of Wildlife and Fisheries, Mississippi State University, MS, December 2008.
- Department of Coastal Sciences, University of Southern Mississippi, Gulf Coast Research Laboratory, Ocean Springs, MS, May 2008.
- Department of Biology, University of North Florida, Jacksonville, FL, January 2008.
- Fisheries and Illinois Aquaculture Center and Department of Zoology, Southern Illinois University, Carbondale, IL, December 2007.
- Department of Integrative Biology, University of Texas at Austin, TX, November 2007.
- Department of Biology, University of Texas at Tyler, TX, April 2007.
- Department of Biology, University of Memphis, Memphis, TN, January 2001.
- Division of Marine Biology and Fisheries, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Miami, FL, November 2000.
- Oceanic Institute, Waimanalo, HI, August 1999.
- Department of Marine Biology, Texas A&M University, Galveston, TX, May 1999.
- Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX, May 1999.
- Institute of Environmental and Human Health, Texas Tech University, Lubbock, TX, March 1999.
- Department of Biology, East Carolina University, Greenville, NC, January 1999.
- Department of Biology, Texas State University, San Marcos, TX, March 1998.
- Department of Zoology (Integrative Biology), University of Texas at Austin, TX, March 1995.