

## *Curriculum Vitae*

August 2018

### **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**

09/2013-present	Assistant Professor, Department of Biological and Environmental Sciences, Texas A&M University-Commerce, 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 489, Endocrine Toxicology, TAMUC – Spring 2017 (Samuel Woods); Fall 2017 (Lindsey Moore & Alison Varghese); Fall 2018 (Tala Abusaad & Gwinivere Turley)  
BSC 489, Independent Study, TAMUC – Fall 2016 (Noorulann Sherwani)  
BSC 489, Zebrafish Reproduction, TAMUC – Spring 2016 (Velnesha Rabon)  
BSC 425, Fundamentals of Neuroscience, TAMUC – Every Spring (2014-present)  
BSC 421, Reproductive Physiology, TAMUC – Spring 2014; Spring 2016  
BSC 314 (Cross-linked with ANS 314), Comparative Vertebrate Physiology, TAMUC – Every Fall (2014-present)

BSC 305, General (Human) Physiology, TAMUC – Every Fall (2013-present)  
BSC 301, Biological Literature, TAMUC – Spring 2015; Spring 2017  
BSC 2402, Human Anatomy & Physiology II, TAMUC – Fall 2015  
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; Spring 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 527-01W (Online), Human Physiology, TAMUC – Every Spring (2018)  
BSC 597-03W (Online), Reproductive Physiology, TAMUC – Spring, Odd Years (2017)  
BSC 523-01E and/or -01W (Online), Vertebrate Endocrinology, TAMUC – Spring, Even Years (2016-present)  
BSC 524-01E, Endocrine Toxicology, TAMUC – Fall, Even Years (2014-present)  
BSC 595, Research Literature and Techniques (Teach and advise completion of independent research review papers, and administer comprehensive exams), TAMUC – Fall 2017 (16 out of 17 non-thesis/online 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 2014 (Schirin Amin-Allen)  
BSC 589, Reproductive Toxicology (Compile literature & prepare drafts of individual thesis proposals), TAMUC – Fall 2015 (Panita Rai & Taelah Wooten)  
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 Research, 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)  
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 Laboratory), 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

- Fall 2016 Excellence in Teaching Award, TAMU-Commerce Chapter of the National Society of Leadership and Success, Sigma Alpha Pi
- 2005-2006 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**)  
Velnesha Rabon, MS in Biology (**Non-Thesis**)  
Steven Atz, **Online** MS in Biology  
Shawn Bittick, **Online** MS in Biology  
Megan Covalt, **Online** MS in Biology  
Kelly Doyle, **Online** MS in Biology  
Ulises Galaviz, **Online** MS in Biology  
Michelle Grace, **Online** MS in Biology  
Erin Griffin, **Online** MS in Biology  
Tracy Holtz, **Online** MS in Biology  
Jessica Maldonado, **Online** MS in Biology  
Amber Miller, **Online** MS in Biology  
Heather Rogers, **Online** MS in Biology  
Heather Thames, **Online** MS in Biology  
Anna Tillerson, **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  $17\alpha$ -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

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 Dundar, **Online MS in Biology** – Fall 2017  
**Research Review:** Effects of Climate Change on Marine Animals (*Conservation Biology*)
18. Sara Epp, **Online MS in Biology** – Fall 2017  
**Research Review:** Climate Change and Plant Biodiversity in the Neo-Tropical Cloud Forests (*Conservation 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 (*Conservation 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 (*Conservation 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 (*Conservation 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 (*Conservation 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 (*Conservation 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

Richard Kline, Ph.D. in Marine Science, University of Texas at Austin, Fall 2010 (Co-supervisor with Dr. Holt)

**Dissertation:** Hormonal correlates of coloration and sexual change in the hermaphroditic grouper, *Epinephelus adscensionis*

Ananyo Banerjee, M.S. in Marine Science, University of Texas at Austin, Summer 2007

**Thesis:** Molecular cloning of FSH and LH  $\beta$  subunits and their regulation by estrogen in Atlantic croaker

Kimberly LeRoy, M.S. in Marine Science, University of Texas at Austin, Spring 2006

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

Wilbert 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*

Sonya Mathews, M.S. in Marine Science, University of Texas at Austin, Fall 2001 (Co-supervisor with 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*

Postdoctoral Fellows

Training Period

Current Employment

Dr. Junaith Mohamed

2003-2006

West Virginia University Health Sciences Center, Morgantown, WV

Dr. Abby Benninghoff

2004-2005

Utah State University, Logan, UT

DISSERTATION AND THESIS COMMITTEES

Six PhD dissertation, and 14 MS and two BS thesis committees

Eleven graduate committees for BSC 595 research review papers for the non-thesis/online MS in Biology program

UNDERGRADUATE RESEARCH INTERNS

21 undergraduate trainees advised

## UNIVERSITY & DEPARTMENTAL COMMITTEES

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

2018	BioPride-JAMP Boot Camp Organizing Committee
2017-present	Member, University Faculty Senate Budget Committee, and BES Alternate
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 BES
2014-present	Member, BES Graduate Recruitment/Admissions Committee
2013-present	Quality Enhancement Program Core Committee: College of Science and Engineering Representative
2014-2016	Member, BES Library Committee
2014-2016	Member, BES Public Relations/Publications/Advertising Committee
2014-2016	Member, BES Undergraduate Recruitment, Outreach and Mane Event Committee
2014-2016	Chair, BES Space Analysis/Allocation/Planning Committee
2013-2014	Member, BES Scholarship Committee
2013-2014	Member, BES Space Analysis/Allocation/Planning Committee
2013-2014	Member, Environmental Science Faculty Search Committee (Hydrology-Geology), BES (recruitment completed in the 2 <sup>nd</sup> round)
2013-2014	Member, Environmental Science Faculty Search Committee (Environmental Science-Toxicology), BES (recruitment completed in the 2 <sup>nd</sup> 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: \$2,958,176; Khan's share: \$1,165,475.

## PROFESSIONAL SOCIETIES

2007-present	Society for Integrative and Comparative Biology
1996-present	Society of Environmental Toxicology and Chemistry
2003-2013	World Aquaculture Society
1999-2012	American Fisheries 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*

### Panelist

Physiology, Organismal and Developmental Biology Panel of the NSF Graduate Research Fellowship Program, December 2017 – January 2018 (Reviewed and rated 21 applications; participated in 8 hours of panel discussions on January 22 and 25, 2018).  
Animal Sciences Panel of the NSF Graduate Research Fellowship Program, February 2008  
Plant and Animal Sciences Panel of the NSF Graduate Research Fellowship Program, February 2007

### Proposal reviews

33 proposals for 12 different national and international funding agencies

### Journal manuscript reviews

143 manuscripts for 25 different peer-reviewed journals

## PUBLICATIONS (\*= STUDENT AUTHORS)

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.
45. Kline, R.J., Holt, G.J. and **Khan, I.A.** 2016. Arginine vasotocin V1a2 receptor and GnRH-I co-localize in preoptic neurons of the sex changing grouper, *Epinephelus adscensionis*. *General and Comparative Endocrinology* 225:33-44.
44. Huffman, L.S., O'Connell, L.A., Kenkel, C.D., Kline R.J., **Khan, I.A.** and Hofmann, H.A. 2012. Distribution of nonapeptide systems in the forebrain of an African cichlid fish, *Astatotilapia burtoni*. *Journal of Chemical Neuroanatomy* 44:86-97.
43. \*Kline, R.J., O'Connell, L.A., Hofmann, H.A., Holt, G.J. and **Khan, I.A.** 2011. The distribution of an AVT V1a receptor in the brain of a sex changing fish, *Epinephelus adscensionis*. *Journal of Chemical Neuroanatomy* 42:72-88.
42. Rahman, M.S., **Khan, I.A.** and Thomas, P. 2011. Tryptophan hydroxylase: A target for neuroendocrine disruption. *Journal of Toxicology and Environmental Health: B-Critical Reviews* 14:473-494.
41. \*Kline, R.J., **Khan, I.A.** and Holt, G.J. 2011. Behavior, color change and time for sexual inversion in the protogynous grouper (*Epinephelus adscensionis*). *Public Library of Science ONE* 6(5): e19576.
40. \*Webb Jr., K.A, **Khan, I.A.**, Nunez, B.S., Rønnestad, I. and Holt, G.J. 2009. Cholecystokinin: Molecular cloning and immunohistochemical localization in the gastrointestinal tract of larval red drum, *Sciaenops ocellatus* (L.). *General and Comparative Endocrinology* 166:152-159.

39. \*Banerjee, A. and **Khan, I.A.** 2008. Molecular cloning of FSH and LH  $\beta$  subunits and their regulation by estrogen in Atlantic croaker. *General and Comparative Endocrinology* 155:827-837.
38. \*Kline, R.J., Soyano, K., Takushima, M. and **Khan, I.A.** 2008. Role of follicle-stimulating hormone and androgens on sexual inversion of sevenband grouper, *Epinephelus septemfasciatus*. *North American Journal of Aquaculture* 70:266-272.
37. **Khan, I.A.**, Mohamed, J.S., \*Kline, R.J. and \*Galima, M.M. 2008. Co-localization of GPR54 with three GnRHs and quantification of GPR54 protein in Atlantic croaker brain. *CYBIUM* 32(2-Suppl):27-29.
36. Mohamed, J.S., Benninghoff, A.D., Holt, G.J. and **Khan, I.A.** 2007. Developmental expression of the G protein-coupled receptor 54 and three GnRH mRNAs in the teleost fish cobia. *Journal of Molecular Endocrinology* 38:235-244.
35. Thomas, P., Rahman, M.S., **Khan, I.A.** and Kummer, J.A. 2007. Widespread endocrine disruption and reproductive impairment in an estuarine fish population exposed to seasonal hypoxia. *Proceedings of the Royal Society: B-Biological Sciences* 274:2693-2701.
34. \*Kucherka, W.D. and **Khan, I.A.** 2007. Sex steroids for gender identification in the red drum, *Sciaenops ocellatus*. *World Aquaculture* 38:53-55 & 65.
33. Mohamed, J.S. and **Khan, I.A.** 2006. Molecular cloning and differential expression of three GnRH mRNAs in discrete brain areas and lymphocytes in red drum. *Journal of Endocrinology* 188:407-416.
32. \*LeRoy, K.D., Thomas, P. and **Khan, I.A.** 2006. Thyroid hormone status of Atlantic croaker exposed to Aroclor 1254 and selected PCB congeners. *Comparative Biochemistry and Physiology: C-Toxicology and Pharmacology* 144:263-271.
31. \*Kucherka, W.D., Thomas, P. and **Khan, I.A.** 2006. Sex differences in circulating steroid hormone levels in the red drum, *Sciaenops ocellatus* L. *Aquaculture Research*. 37:1464-1472.
30. **Khan, I.A.** and Thomas, P. 2006. PCB congener-specific disruption of reproductive neuroendocrine function in Atlantic croaker. *Marine Environmental Research* 62:25-28.
29. Mohamed, J.S., Thomas, P. and **Khan, I.A.** 2005. Isolation, cloning and expression of three prepro-GnRH mRNAs in Atlantic croaker brain and pituitary. *Journal of Comparative Neurology* 488:384-395.
28. Thomas, P. and **Khan, I.A.** 2005. Disruption of nongenomic steroid actions on gametes and serotonergic pathways controlling reproductive neuroendocrine function by environmental chemicals. In: *Endocrine Disruptors: Effects on Male and Female Reproductive Systems*. R.K. Naz (ed.), Chapter 1, pp. 3-45. CRC Press, Boca Raton, FL.
27. **Khan, I.A.** and Thomas, P. 2004. Aroclor 1254 inhibits tryptophan hydroxylase activity in rat brain. *Archives of Toxicology* 78:316-320.
26. **Khan, I.A.** and Thomas, P. 2004. Vitamin E co-treatment reduces Aroclor 1254-induced impairment of reproductive neuroendocrine function in Atlantic croaker. *Marine Environmental Research* 58:333-336.



25. \*Mathews, S., **Khan, I.A.** and Thomas, P. 2002. Effects of the maturation-inducing steroid on LH secretion and the GnRH system at different stages of the gonadal cycle in Atlantic croaker. *General and Comparative Endocrinology* 126:287-297.
24. **Khan, I.A.** and Thomas, P. 2001. Disruption of neuroendocrine control of luteinizing hormone secretion by Aroclor 1254 involves inhibition of hypothalamic tryptophan hydroxylase activity. *Biology of Reproduction* 64:955-964.
23. **Khan, I.A.**, \*Mathews, S., Okuzawa, K., Kagawa, H. and Thomas, P. 2001. Alterations in the GnRH-LH system in relation to gonadal stage and Aroclor 1254 exposure in Atlantic croaker. *Comparative Biochemistry and Physiology: B-Biochemistry and Molecular Biology* 129:251-259.
22. **Khan, I.A.** and Thomas, P. 2000. Lead and Aroclor 1254 disrupt reproductive neuroendocrine function in Atlantic croaker. *Marine Environmental Research* 50:119-123.
21. **Khan, I.A.** and Thomas, P. 2000. Neuroendocrine control of gonadotropin II secretion in Atlantic croaker: role of gonadal steroids. In: *Reproductive Physiology of Fish*. B. Norberg, O.S. Kjesbu, G.L. Tararanger, E. Andersson, and S.O. Stefansson (eds.), pp. 60, John Grieg AS, Bergen, Norway.
20. **Khan, I.A.** and Thomas, P. 1999. GABA exerts stimulatory and inhibitory influences on gonadotropin II secretion in the Atlantic croaker (*Micropogonias undulatus*). *Neuroendocrinology* 69:261-268.
19. **Khan, I.A.**, \*Hawkins, M.B. and Thomas, P. 1999. Gonadal stage-dependent effects of gonadal steroids on gonadotropin II secretion in the Atlantic croaker (*Micropogonias undulatus*). *Biology of Reproduction* 61:834-841.
18. **Khan, I.A.** and Thomas, P. 1999. Ovarian cycle, teleost fish. In: *Encyclopedia of Reproduction*. E. Knobil and J. D. Neill (eds.), Volume 3, pp. 552-564. Academic Press, San Diego, CA.
17. **Khan, I.A.** and Thomas, P. 1998. Estradiol-17 $\beta$  and o,p'-DDT stimulate gonadotropin release in Atlantic croaker. *Marine Environmental Research* 46:149-152.
16. **Khan, I.A.** and Thomas, P. 1997. Aroclor 1254-induced alterations in hypothalamic monoamine metabolism in the Atlantic croaker (*Micropogonias undulatus*): correlation with pituitary gonadotropin release. *Neurotoxicology* 18:553-560.
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.
14. **Khan, I.A.** and Thomas, P. 1996. Melatonin influences gonadotropin II secretion in the Atlantic croaker (*Micropogonias undulatus*). *General and Comparative Endocrinology* 104:231-242.
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-HT<sub>2</sub> receptors. *Journal of Experimental Zoology* 269:531-537.
10. **Khan, I.A.** and P. Thomas. 1993. Immunocytochemical localization of serotonin and gonadotropin-releasing hormone in the brain and pituitary gland of the Atlantic croaker, *Micropogonias undulatus*. *General and Comparative Endocrinology* 91:167-180.
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.
8. **Khan, I.A.** and Joy, K.P. 1991. Changes in hypothalamic monoamine oxidase activity in relation to 17 $\beta$ -estradiol and clomiphene citrate treatments in the teleost *Channa punctatus* during three seasons. *General and Comparative Endocrinology* 81:426-432.
7. **Khan, I.A.** and Thomas, P. 1991. Stimulatory effects of serotonin on gonadotropin release in Atlantic croaker. *In: Reproductive Physiology of Fish*. A.P. Scott, J.P. Sumpter, D.E. Kime, and M.S. Rolfe (eds.), pp. 62, Fish Symposium 91, University of East Anglia Press, Sheffield, United Kingdom.
6. Joy, K.P. and **Khan, I.A.** 1991. Pineal-gonadal relationship in the teleost *Channa punctatus* (Bloch): evidence for possible involvement of hypothalamic serotonergic system. *Journal of Pineal Research* 11:12-22.
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.
2. **Khan, I.A.** and Joy, K.P. 1988. Seasonal and daily variations in hypothalamic monoamine levels and monoamine oxidase activity in the teleost *Channa punctatus* (Bloch). *Chronobiology International* 5:311-316.
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 PRESENTATIONS

**57 contributed/invited presentations** at scientific meetings and **24+ invited lectures** at academic/research institutions.