

Curriculum Vitae of Dr. Radha Chaube

1. Name : Dr. Radha Chaube

2. Designation : Professor in Zoology

3. Area of Specialization: Molecular Reproductive Neuroendocrinology, Behavioural Neuroendocrinology, Enzymology, Reproductive Endocrinology and Physiology, gene cloning, characterization of DNA, Bioinformatics, Drug designing and molecular docking, Endocrine disruption, Toxicogenomics

Research Models: Fish (catfishes, carps, zebrafish, medaka), human clinical samples, mice, rat

3. Academic Qualifications:

Sr.	Degree	Institution	Year
1	Ph.D, Zoology	Banaras Hindu University	2003
2	M.Sc (Zoology)	Banaras Hindu University	1997
3.	B.Sc Zoology (Hons).	Banaras Hindu University	1995
4.	Intermediate (10+2)	CBSE Board, KV DLW, Varanasi	1992
5.	High School	CBSE Board, KV No.1, Bhatinda, Punjab	1989

Ph.D Title: “Environmental and hormonal control of Brain tyrosine hydroxylase activity in the catfish *Herteropneustes fossilis* in relation to reproductive cycle”

Qualified CSIR-JRF (NET)- 1997
Qualified ICAR-NET-2001

Academic and Research contributions at a glance:

Teaching UG/PG	15 yrs
Research	29 yrs including Ph.D duration
Post doctoral experience/Women Scientist	03 yrs
Ph. D guidance	Awarded : 07

	Thesis submitted : 02 Registered: 04
--	---

Projects undertaken as PI/Co PI:

PI/Co-PI	Funding agency	Project title	Period	Amount in Rs.
PI	JSPS	Implication of Molecular mechanism on sexual Dimorphism of the Brain, to work with Prof. Yoshitaka Nagahama at Laboratory of Reproductive Biology, NIBB, Okazaki, 444-8585, Japan	2 years (2004-2006) Completed	3.00 million yen (US\$28,500)
PI	DST	Molecular cloning, characterization and functional significance of P450 aromatase gene in the catfish <i>Heteropneustes fossilis</i>	3 years (16-03-2007 to 15-03-2010) Completed	17.88 lacs
PI	UGC	Steroidal pheromones interaction with brain catecholaminergic system to regulate gonadotropin secretion in catfish <i>Heteropneustes fossilis</i>	3 years (1-2-2009 to 31-01-2012) Completed	10.675 lacs
Co-PI	DST	Catfish Ovarian vasotocin and vasotocin receptor genes: Molecular cloning, characterization and expression, and role in spawning activity,	3 years, (2010-2013) Completed	37.03 lakhs
Co-PI	UGC	Effects of pentachlorophenol (PCP) on the reproductive status of the catfish <i>Heteropneustes fossilis</i>	3 years (2011-2014) Completed	9.518 lakhs
PI	DST	Modulation of the cytochrome P450 aromatase gene expression in the catfish <i>Heteropneustes fossilis</i> : Involvement of Endocrine Disrupting chemical	3 years (2012-2015) Completed	22.90 lakhs
Co-PI	(DST-CIFERA)(IndoFrench)	Catecholestrogens in Fish Reproductive Endocrinology - As Co-PI- 2014 As PI (Feb 2015- Oct, 2017)	3years 6 months (2013-2017) Completed	60.00 lakhs
PI	UGC-UPE, BHU	Molecular Basis of Sex determination and Differentiation in a teleost fish	2 years(2012-2014) Completed	2.00 lakhs

Co-PI	DST-SERB	Characterization of gonadotropin releasing hormone and kisspeptin systems in the catfish <i>Heteropneustes fossilis</i> : Cross talks and interactions in the control of gonadotropin secretions3 years (2017-2019)	3 years 6 months (2017-2020) Completed	Rs. 49.85 lakhs
Co-PI	DBT	Evaluation of Bacteriophage therapy on freshwater aquaculture system from Varanasi region	3years (2018-2021) Completed	Rs.44.076lakhs
PI	BHU-IOE	Cloning and Characterization of Tachykinin and its receptors in the catfish, <i>Heteropneustes fossilis</i> : Molecular interactions with kisspeptin and other neuropeptides in the control of gonadotropin secretion	3 years (2021-2024) ongoing	Rs. 8.0 lakhs

M.Sc Disseration/B.Sc project work	75/ (till May, 2022)
Publications	122 (See appendix A) National: 25 International: 97
Edited Books (Proceedings of 9th ISRPF and Special Issue Fish Physiology and Biochemistry, Special Issue of GCE)	03
Authored book	01
International Conference Abstract Books	02
Laboratory Manual under DBT-STAR College Scheme	01
Article in Biodiversity forum	02
Chapter in Books/Proceedings/ official Journal	30
Abstracts published in Conferences/Symposium/articles	125
NCBI GeneBank Accession Data Base (cloned genes)	31 (See Appendix C)

Members of Professional Societies	14
Invited lectures as resource person	38
Conference attended and Presented paper	60
Project Grants Received	11 (See Appendix B) Completed: 10 UGC, JSPS, DST-WOS-A, DST, UGC, UGC-BHU-UPE, DST-SERB-FT, DST-CEFIRA Indo-French, DST-SERB and DBT Ongoing: 01 BHU-IOE
Total Impact factor	250.91
Total citations	1076
H-index; i10 Index	17; 35
RG Score	33.76

Awards/ Recognitions if any:

- CSIR-JRF (NET) Award (1997)
- ICAR-NET Award (2001)
- CSIR-SRF (extd.) (2004)
- JSPS Post Doctoral Fellowship Award (2004-2006)
- DST Women Scientist (2006-2010)
- Visiting Post doc Scientist, INRA, Rennes, France (September 20th 2007 to December 20th 2007)
- Selected as a Mentor to guide Summer Research Fellows by Indian Science Academy (IISC-NASI-INSIA) (2013, 2016, 2019)
- Recipient of 7th International Prestigious Sardar Patel Award-2012 by International Organization Sardar Vallabhbhai Patel Foundation, New Delhi, India for excellence in the field of “Women Empowerment”
- INSA-INDO-AUSTRALIA EARLY CAREER SCIENTIST VISITING FELLOWSHIP-2012-2013
- Invited to present paper at 10th ISRPF, Portugal (25-30th May, 2014)
- Selected as a Symposium speaker to deliver talk at ICN 2014, Sydney Australia 17-20th August, 2014

- JSPS BRIDGE Fellowship Award-2015
- Visited France to INRA, Rennes under CEIPERA project 2016
- Visited Manaus Brazil to participate and present paper at 11th ISRPF June, 2018
- INSA-INDO-ISRAEL Bilateral Scientist Exchange Award-2018.
- Keynote speaker at Aqualife-2019, Aqualife-2019, Kualampur, Malaysia
- Fellowship Award-2018, Zoological Society of India- 2018
- Recipient of Honorary Fellowship, Society of Life Sciences, Satna, India
- INSA-Indo Israel Bilateral Scientist Exchange Award-2018, INSA-New Delhi
- Fellowship Award- 2019, Blue Planet Society of India, Prayagraj
- Best Scientist Award, For research on Neuroendocrinology, ZSI, 2020
- Elected as Member of National Academy of Sciences, Prayagraj, Allahabad-2021
- Received Malviya Smiriti Samman, 2021 by Prof. H.N.Tripathi Foundation, BHU

Collaborative Research

1. Indo-French : under Indo-French collaborative project funded by DST-CEIPFRA, 2011-2017
2. Indo-Australia : Initiated under INSA-Indo Australia Early career Science and Technology Fellowship Award 2012-2013
3. Indo-Japan under JSPS Bridge Fellowship Programme, 2015
4. Indo-Canada with Prof. Vance Trudeau, Ottawa University, 2015 onwards
5. Indo-Israel with Prof. Berta Sivan, The Hebrew University, under INSA-Indo Israel bilateral exchange Programme-2018

Visits Abroad

- As JSPS Post Doctoral Fellow, At National Institute for Basic Biology, Okazaki, Japan Duration : July 2004-July 2006
- To attend and present paper for the international Symposium on “Instinctive Brain Mechanisms Underlying the Basics of Life “ at the Sanjo Conference Hall University of Tokyo, Tokyo, Japan Duration : 28-29 January, 2005.
- To attend and present paper for the 4th International Symposium on Vertebrate Sex Determination at the Royal Kona Resort in the town of Kailua-Kona, USA. Duration : April 10-14, 2006
- To attend meeting to finalize Indo-French Collaborative project at Prof. Alexis Fostier Laboratory, INRA, Rennes, France 9-10 July, 2010
- To attend and present paper for the 7th Congress of Neuroendocrinology (ICN 2010) at law Faculty, University of Rouen, Rouen, France Duration : July 10-14, 2010
- INSA-Indo Australia Early Career Science and Technology visiting Fellowship 2012-2013 At Prof. Abigail Elizur, University of Sunshine Coast, Sippy Downs, Queensland, Australia (Duration: 25th Feb, 2013 to 25th May, 2013)
- To attend and present research paper at 10th International Symposium on Reproductive Physiology of Fish “ Expanding the knowledge base of reproductive

success: from genes to the environment". 24May 2014-2nd June 2014 (25-30May 2014). Olhao, Portugal

- To attend and deliver symposium lecture at the International Congress of Neuroendocrinology, 2014. 17-20th August, 2014, Hilton Sydney, Hotel Sydney, New South Wales, Australia
- Visited University of Sunshine Coast, Queensland, Australia from 21-26th August, 2014 for delivering lecture on Catfish Gonadotropins and discussed on our collaborative research work which was initiated under INSA Indo-Australia Early Career Science and Technology Award, 2013.
- Visited Department of Aquatic Biosciences, The University of Tokyo, Japan and Ehime University, Matsuyama under JSPS Bridge Fellowship Programme 2015
- France visit under DST-CEIFPRA Project October 2016
- Participated and presented paper at 11th ISRPF, 2018 held at Manaus, Brazil June 2-8, 2018
- Visited Israel under bilateral exchange programme under INSA Indo Israel Scheme- 2018 October, 2018
- Visited Malaysia to deliver lecture as Keynote speaker at Oct 14-15, 2019 Aqualife-2019, Aqualife-2019, Kuala Lumpur, Malaysia

Membership of Professional Societies

- Life member Society for Reproductive Biology and Comparative Endocrinology,
- Member of International Brain Research Organization, France,
- Life member of Society for Biotechnologists (India),
- Life member of Indian Society of Cell Biology (Regd., India),
- Life member of Indian Academy of Neurosciences (IAN),
- Indian JSPS Alumni Association,
- International Neuroendocrinology Federation, Canada
- IAN Local Chapter, Varanasi,
- Endocrine Society
- Life Member of Mahamana Malviya Foundation
- Life member of Society of neurochemistry
- Life member of Zoological Society of India
- Life member of Society of Life Sciences, India
- Life member of Blue Planet Society of India, Prayagraj
- Life member of National Academy of Sciences, Prayagraj-2021

- Life member of Global Environment and Social Association (GESA)-2021
- **Manuscript Review Committee** –Referee for reviewing manuscripts for :
Comparative Biochemistry and Physiology, Journal of Endocrinology, Fish Physiology and Biochemistry, Protoplasma, Ecotoxicology and Environmental Safety, PNAS Elsevier (India), American Journal of Experimental Agriculture, Environmental Science and Pollution Research, General and Comparative Endocrinology, Frontiers in Endocrinology, Gene, General and Comparative Endocrinology etc.

Event/ Conference/Workshop/Symposium Organization

1. National Seminar and Workshop on Metabolic Networks and Drug Designing,” 28-30 November, 2008 organized by Mahila Mahavidyalaya, Banaras Hindu University, Varanasi-221005, (**As Joint Organizer**)
2. Symposium and Workshop on Statistical methods in Computational Biology, 28/12/2007
As Organizing Committee member
3. 9th ISRPF 9-12 August, 2011 (**As member of National Organizing Committee**).
4. Organized training programme for UG students on Microtomy and its applications under DBT Star College Scheme 28-30th March, 2011 (**As Organizer**)
5. National Symposium on Environmental Threat to Human Health in 21st century 16-17th March, 2009 (**As Treasurer**)
6. Organized MMV Exhibition Stall at BHU Alumni Meet Free Blood group and Blood pressure detection Camp was organized. 24-25th Dec, 2010
7. Educational Tour National 08/11/2014 -14th Nov, 2014 Denradun and nearby places BHU-**As Convener**
8. International Symposium on Reproductive Biology and Comparative Endocrinology International 25/02/2015 Seminar Complex, BHU (**As Organizing Secretary**) funded by BHU, DST-SERB, UGC-UPE, CSIR, DBT, ICMR,
9. Conducted Educational/Excursion tour in the year 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2019
10. As **Co-Convener** Organised International Conference on Contemporary Advances of Science and Technology-2015, 6th India-Japan IJAA Seminar, 7-9 August, 2015.

11. Conducted Educational tour for B.Sc Vth Semester Students at Department of Zoology, BHU 2016, 2017, 2019

12. Organizing Secretary at National Workshop on Applications of Proteomics in Endocrinology, 17-23rd November, 2018 at Department of Zoology, BHU

Chapter in Books

1. **Radha Chaube** and Uttam Sarkar 2017. Biodiversity and sustainable Eco-tourism: Opportunities impacts and interventions . In Uttar Pradesh Biodiversity Board
2. **Radha Chaube** and Uttam Sarkar 2018. Recent updates on Conservation of biodiversity: Importance , Benefits and Challenges. In Uttar Pradesh Biodiversity Board
3. **Chaube R.** 2018. Microtomy and Histology, pp 93-99 **LIFE SCIENCES PROTOCOL MANUAL**, January, 2018 Copyright © Department of Biotechnology Ministry of Science & Technology, New Delhi, Government of India
4. Nath A., Kumari P., **Chaube R.** (2018) Prediction of Human Drug Targets and Their Interactions Using Machine Learning Methods: Current and Future Perspectives. In: Gore M., Jagtap U. (eds) Computational Drug Discovery and Design. Methods in Molecular Biology, vol1762 https://doi.org/10.1007/978-1-4939-7756-7_2, In [Computational Drug Discovery and Design](https://doi.org/10.1007/978-1-4939-7756-7_2) pp 21-30. Humana Press, New York, NY. **Print ISBN**978-1-4939-7755-0 **Online ISBN**978-1-4939-7756-7© Springer Science+Business Media, LLC, part of Springer Nature 2018
5. K.P.Joy and **R.Chaube.** 2018. Advances in Reproductive Physiology of fish: Insights into brain pituitary gonadal endocrine axis. Pp333-354. In Aquaculture in India Edited by:S.D.Tripathi, W.S.Lakra and N.K.Chadha copyright©2018, Narendra Publishing House, Delhi, India
6. **R. Chaube** and S. Mishra 2016. Neurosteroidogenesis in the catfish *Heteropneustes fossilis* : Current and future perspectives Banaras Hindu University, BHU Press
7. S. Mishra and **R. Chaube** 2016. Localization, distribution and expression of P450 aromatase in the brain of adult catfish *Heteropneustes fossilis*. pp 82-109 ISBN 978-81-929990-9-8 ; Experiments with Animals of Food Value. Kushal Bio Science Books, Kushal Publications and Distributors, Varanasi, 2016
8. K.P.Joy and **R. Chaube.** 2013. Ovarian Catecholestrogens : Role in final oocyte maturation. Review in Book: Sexual Plasticity and Gametogenesis in Fishes, NOVA Science Publishers Inc. USA. <http://www.novapublishers.com>. ISBN : 978-1-62618-848, pp 115-130.
9. **Chaube R.** Okubo. K and Nagahama. Y. 2009. Do sex steroids alter reproductive behaviour ? (Molecular and Physiological Aspects of Toxicology, 2009; ISBN: 81-85403-09-2 pp 93-101)

Books edited

1. Co-editor for special issue of ISRBCE 2015, International Symposium on Reproductive Biology and Comparative Endocrinology; General and Comparative Endocrinology General and Comparative Endocrinology; Volume 241, Pages 1-118 (15 January 2017)

2. Co-Editor for proceedings of 9th International Symposium On Reproductive Physiology of Fish; published by Indian Society for Education and Environment (ISEE); Vol: 4 Issue: S8; ISSN:0974-6846.
3. Guest Editor for Special Issue: Fish Reproductive Physiology, Fish Physiology and Biochemistry, Volume 39 · Number 1 · February 2013, ISSN -0920-1742.
4. Member of Editorial Board for the Book: (Molecular and Physiological Aspects of Toxicology, 2009; ISBN: 81-85403-09-2)
5. Member of Editorial Board of Pharmacologia Journal, UK

➤ **Research Papers / Articles Published in Refereed Journals/Proceedings**

1. **R. Chaube** and K. P. Joy. 2002. Effects of ovariectomy and oestradiol-17 β replacement on brain tyrosine hydroxylase in the catfish *Heteropneustes fossilis* : Changes in *in vivo* activity and kinetic parameters. ***Journal of Endocrinology***; 175: 329-342. **IF: 3.548 H-Index : 97**
2. **R. Chaube** and K. P. Joy. 2002. Effects of altered photoperiod temperature, serotonin-affecting drugs and melatonin on brain tyrosine hydroxylase activity in the female catfish, *Heteropneustes fossilis*: A study correlating ovarian activity changes. ***Journal of Experimental Zoology***, 293: 585-593. **IF: 1.642 H-Index : 38**
3. **R. Chaube** and K. P. Joy. 2003. Brain tyrosine hydroxylase in the catfish *Heteropneustes fossilis* : Annual and circadian variations on sex and regional differences in enzyme activity and some kinetic properties. ***General and Comparative Endocrinology***, 30: 29-40. **IF: 3.267 H-Index : 71**
4. **R. Chaube** and K. P. Joy. 2003. *In vitro* effects of catecholamines and catecholestrogens on brain tyrosine hydroxylase activity and kinetics in the female catfish *Heteropneustes fossilis*. ***Journal of Neuroendocrinology***, 15: 273-279. **IF:3.138 H-Index : 75**
5. **R. Chaube** and K. P. Joy. 2003. Thyroid hormone modulation of brain *in vivo* tyrosine hydroxylase activity and kinetics in the female catfish *Heteropneustes fossilis*. ***Journal of Endocrinology***, 179 (2) : 205-215. **IF: 3.548 H-Index : 97**
6. K. P. Joy and **R. Chaube**. 2003. Catecholaminergic control of LH secretion in female catfish *Heteropneustes fossilis* : E₂ modulation of tyrosine hydroxylase activity. ***Fish Physiology and Biochemistry***, 28: 33-35. **IF: 1.528 H-Index : 47**
7. **R. Chaube** and K. P. Joy. 2005. Estrogen regulation of *in vitro* brain tyrosine hydroxylase activity in the catfish *Heteropneustes fossilis*: Involvement of protein kinase A and protein kinase C signaling systems. ***General and Comparative Endocrinology***, 141: 116-125. **IF: 3.267 H-Index : 71**
8. **R. Chaube** and K. P. Joy. 2005. cAMP-protein kinase A and Ca²⁺-protein kinase C pathways mediate *in vitro* T₃ activation of brain tyrosine hydroxylase in the female catfish *Heteropneustes fossilis*. ***Journal of Neuroendocrinology***, Vol. 17: 91-96. **IF: 3.138 H-Index : 75**
9. **Chaube R**, K Okubo, Y Nagahama. 2007. Estradiol – 17 β and estrogen-receptor blocker (Tamoxifen) regulate expression of sexually dimorphic genes in the brain of adult Japanese medaka, *Oryzias latipes*.. In Proceedings of “**International Symposium on Advances in Neurosciences and Silver Jubilee Conference of Indian Academy of Neurosciences (Theme: Molecular and Cellular Basis of Brain Functions and Disorders)**” Nov 22-25, 2007. Banaras Hindu University, Department of Zoology, Varanasi-221005, India. **ISSN No: 0972-7531**
10. **Chaube R**, K Okubo, Y Nagahama. 2008. Estrogen dependent regulation of brain aromatase gene (cyp19a2) in the Japanese medaka, *Oryzias latipes*.. In Proceedings of “**International conference on Advances in Neurosciences and XXVI Annual meeting of Indian Academy of Neurosciences**” Dec 12-14, 2008, Cochin University of Science and Technology, Kochi. **ISSN No: 0972-7531**
11. **Chaube R**. and K. P. Joy. 2008. *In vitro* brain tyrosine hydroxylase activation in catfish *Heteropneustes fossilis* (Bloch): seasonal changes in involvement of cAMP-dependent protein

- kinase A and Ca^{2+} -dependent protein kinase C. *Indian Journal of Experimental Biology*, Nov; 46 (11):764-769. **IF: 1.295 H-Index : 44**
12. A Tripathi, S Khatun, AN Pandey, SK Mishra, R Chaube, TG Shrivastav, SK Chaube. 2009. Intracellular levels of hydrogen peroxide and nitric oxide in oocytes at various stages of meiotic cell cycle and apoptosis. *Free Radic Res*. Mar; 43(3):287-94. Jan 29. **IF: 2.878 H-Index : 82**
 13. TK Chourasia, **R Chaube**, V Singh, KP Joy. 2010. Annual and periovulatory changes in tyrosine hydroxylase activity in the ovary of the catfish *Heteropneustes fossilis*. *General and Comparative Endocrinology* 166; 111-116. **IF: 3.267 H-Index : 71**
 14. **R. Chaube** and K. P. Joy. 2010. Inhibition of hCG-induced spawning by α -methylparatyrosine, a tyrosine hydroxylase inhibitor, in the catfish *Heteropneustes fossilis*. *Indian Journal of Experimental Biology*, vol.48, June 2010, 549-553. **IF: 1.295 H-Index : 44**
 15. V Singh, **R Chaube**, TK Chourasia, KP Joy. 2010. Temporal and periovulatory changes in ovarian catecholamines in the catfish *Heteropneustes fossilis*. *Gen. Comp. Endocrinol.* Aug 1:168 (1): 46-54. **IF: 3.267 H-Index : 71**
 16. **R. Chaube**, S. Mishra, R.K. Singh. 2010. In vitro effects of lead nitrate on steroid profiles in the post-vitellogenic ovary of the catfish *Heteropneustes fossilis*. *Toxicol In Vitro*. 2010 Oct;24(7):1899-904. Epub 2010 Jul 25. **IF: 2.62 H-Index : 56**
 17. A. Nath, **R. Chaube**, S. Karthikeyan. 2010. Computational analysis of antifreeze proteins: insights into cold adaptation. In Proceedings of *Bioinformatica indica 2010*. International Symposium on Computational Biology Structural Bioinformatics and Systems Biology. DBT-BIF, Centre for Bioinformatics, University of Kerala, Thiruvananthapuram, Kerala, India.
 18. **Radha Chaube**, François Chauvigné , Angèle Tingaud-Sequeira , Keerikkattil P. Joy, Arup Acharjee Varsha Singh and Joan Cerdà. 2010. Molecular and functional characterization of catfish (*Heteropneustes fossilis*) aquaporin-1b: changes in expression during ovarian development and hormone-induced follicular maturation. *Gen Comp Endocrinol.*170; 2011; 162-171. **IF: 3.267 H-Index : 71**
 19. Okubo K, Takeuchi A, **Chaube R**, Paul-Prasanth B, Kanda S, Oka Y, Nagahama Y. 2011. Sex differences in aromatase gene expression in the medaka brain. *J Neuroendocrinol*. 2011 May; 23(5):412-23. **IF: 3.138 H-Index : 75**
 20. **Chaube R**, Joy KP: Estradiol-17 β modulates dose-dependently hypothalamic tyrosine hydroxylase activity inhibited by α -methylparatyrosine in the catfish *Heteropneustes fossilis*. *Endocrine*. 2011, 40,394-399. **IF: 1.416 H-Index : 55**
 21. P. Banerjee, **R. Chaube**, K.P. Joy. 2011. Cloning and characterization of vasotocin in the catfish *Heteropneustes fossilis*: Seasonal and tissue expression studies. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol:4 Issue: S8 **ISSN: 0974-6846**, pp-19-20.
 22. **R. Chaube**, R. K. Singh, K. P. Joy. 2011. Effects of Etiocholanone glucuronide, a putative pheromone on brain and plasma vasotocin levels in the catfish *Heteropneustes fossilis*. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol : 4 Issue: S8; **ISSN : 0974-6846**, pp-25-26.
 23. A. Rawat, **R. Chaube**, K. P. Joy. 2011. Partial cloning and characterization of vasotocin1a receptor gene in the catfish *Heteropneustes fossilis*: Seasonal and tissue expression study. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 **ISSN: 0974-6846**, pp-43-44.
 24. R. K. Singh, **R. Chaube**, K. P. Joy. 2011. Effects of catecholamines on brain and plasma vasotocin levels in the catfish *Heteropneustes fossilis*. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 **ISSN: 0974-6846**, pp-54-55.

25. S. Mishra, **R. Chaube**. 2011. Effects of perfusion of testicular fractions on brain catecholamines in the female catfish *Heteropneustes fossilis*. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 **ISSN: 0974-6846**, pp-122-123.
26. V. Singh, **R. Chaube**, Chourasia T. K, Joy K.P. 2011. Effects of a-methylparatyrosine, a catecholamine inhibitor on ovarian steroid hormone levels in the catfish *Heteropneustes fossilis*. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 **ISSN: 0974-6846**, pp-169-170.
27. A. Acharjee, **R. Chaube**, K. P. Joy, J. Cerda. 2011. Hormonal regulation of aquaporin-1ab in *Heteropneustes fossilis* oocytes in vitro. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 **ISSN: 0974-6846**, pp-165-166.
28. G.J. Gautam, **R. Chaube**, K. P. Joy. 2011. 4-nonylphenol impairs ovarian recrudescence and induces atresia in the catfish *Heteropneustes fossilis*. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 **ISSN: 0974-6846**, pp-165-166.
29. Abhigyan Nath, **Radha Chaube**, S. Karthikeyan 2011 Accurate Prediction of Fish Antifreeze Proteins Using Artificial Neural Networks. Vol. 15(2011) Special Issue 2 **Journal of International Academy of Physical Sciences** pp. 507-513 **ISSN No.: 0974 – 9373**.
30. **Chaube R**, Singh RK, Joy KP. 2012 Estrogen regulation of brain vasotocin secretion in the catfish *Heteropneustes fossilis*: an interaction with catecholaminergic system. **Gen Comp Endocrinol**. 2012 Jan 1;175(1):206-13. Epub 2011 Nov 23. **IF: 3.267 H-Index : 71**
31. **Chaube R**, Mishra S 2012. Brain steroid contents in the catfish *Heteropneustes fossilis*: sex and gonad stage-specific changes. **Fish Physiol Biochem**. 2012 Jun;38(3):757-67. Epub 2011 Oct 15. **IF: 1.528 H-Index : 47**
32. Nath A., **Chaube R** and S. Karthikeyan 2012. “Discrimination of Psychrophilic and Mesophilic Proteins Using Random Forest Algorithm”, ICBE, pp.179-182, IEEE 2012 International Conference on Biomedical Engineering and Biotechnology, 2012.(DOI 10.1109/iCBEB.2012.151)
33. Khanam N., Nath A., **Chaube R**. 2012. *In silico* characterization of tyrosine hydroxylase proteins using computational tools and servers. International Journal of Institutional Pharmacy and Life Sciences 2(2): March-April 2012. pp 139-154. **ISSN No: 2249-6807**.
34. Verma S, Nath A, **Chaube R**. 2012. Relative solvent accessibility as a parameter for comparative analysis of mesophilic and thermophilic protein sequences. International Journal of Institutional Pharmacy and Life Sciences 2(2): March-April 2012. pp 155-162. **ISSN No: 2249-6807**.
35. Abhigyan Nath, **Radha Chaube**, S. Karthikeyan, 2013, An insight into the molecular basis for convergent evolution in fish antifreeze proteins. Computers in Biology and Medicine, 43 (2013), 817-823 Available online 30 April 2013, **ISSN No: 0010-4825, IF: 1.302 H-Index : 41**
36. **Chaube R**, Gautam GJ, Joy KP. 2013. Teratogenic Effects of 4-Nonylphenol on Early Embryonic and Larval Development of the Catfish *Heteropneustes fossilis*. **Arch Environ Contam Toxicol**. May;64(4):554-61. doi: 10.1007/s00244-012-9851-7. Epub 2012 Dec 11. **IF : 1.927 H-Index : 68**

37. Joy KP, Moses Inbaraj R, Kirubakaran R, **Chaube R**. 2013. Foreword: Reproductive Physiology of Fish. *Fish Physiol Biochem*. Feb;39(1):1. doi: 10.1007/s10695-012-9654-9. Epub 2012 May 16. **IF : 1.528 H-Index : 47**
38. Rahul Kumar Singh, **Radha Chaube**, Keerikkattil P. Joy 2013. Differential and reproductive stage-dependent regulation of vasotocin secretion by catecholamines in the catfish *Heteropneustes fossilis*. *Comparative Biochemistry and Physiology Part A: Molecular and Integrative Physiology*. Available online 13 sept 2013;166 (4): 619-626. doi: 10.1016/j.cbpa.2013.09.005 **IF : 2.176 H-Index : 69**
39. **Chaube R**, Surabhi Mishra, Singh RK, 2013. In vitro effects of cadmium chloride on steroid profiles of post-vitellogenic ovary in the catfish *Heteropneustes fossilis*. *Indian Journal of Forensic Medicine and Toxicology*, July-December 2013, vol.7, No. 2pp 92-97 **ISSN No: 0973-9122**
40. **Chaube R**. 2013. Brain as a repository of steroids. *Annals of Neuroscience*, Vol. 20 supplement Oct.2013, pp 28. Official Journal of Indian Academy of Neurosciences **pISSN: 0972-7531**
41. Surabhi Mishra and **Radha Chaube** 2013. Seasonal and dimorphic variations in the total and free cholesterol levels in brain and its regions of the catfish *Heteropneustes fossilis*. *Annals of Neuroscience*, volume 20 supplement oct.2013, pp63-64 Official Journal of Indian Academy of Neurosciences **pISSN 0972-7531**
42. Joy K.P, Singh V, **Chaube R**. 2014. An *invitro* study on catecholamine modulation of ovarian steroidogenic activity in the catfish *Heteropneustes fossilis*. *Gen. comp. Endocrinol*. Vol: 196, 15 January, pp 91-99 **IF: 2.823 H-Index : 71**
43. **Chaube R**, Singh RK, Joy KP. 2014. Effects of ovaprim, a commercial spawning inducer, on vasotocin and steroid hormone profiles in the catfish *Heteropneustes fossilis*: in vivo and in vitro studies. *Gen Comp Endocrinol*. Vol. 195, 1 January 190-200. 2013 Nov 15. doi:pii:S0016-6480(13)00441-3. 10.1016/j.ygcen.2013.11.009. PMID: 24246310. **IF: 2.823 ; H-Index : 71**
44. Amisha Singh and **Radha Chaube**. 2014. Bioinformatic analysis, structure modelling and active site prediction of quaporin protein from catfish *Heteropneustes fossilis*. *International Journal on Recent and Innovation Trends in Computing and Communication*. Vol. 2 issue 10. 3208-3215. ISSN : 2321-8169 **SJIF: 5.098**
45. Joy KP, **Chaube R**. 2015. Vasotocin - A new player in the control of oocyte maturation and ovulation in fish. *Gen Comp Endocrinol*. 2015 Feb 26. pii: S0016-6480(15)00050-7. doi: 10.1016/j.ygcen.2015.02.013. [Epub ahead of print] Review. **IF: 2.67**
46. Rawat A, **Chaube R**, Joy KP. 2015. Molecular cloning, sequencing and phylogeny of vasotocin receptor genes in the air-breathing catfish *Heteropneustes fossilis* with sex dimorphic and seasonal variations in tissue expression. *Fish Physiol Biochem*. 2015 Apr;41(2):509-32. doi: 10.1007/s10695-015-0026-0. Epub 2015 Jan 18. **IF : 1.68**
47. Kumari P, Nath A, **Chaube R**. 2015..Identification of human drug targets using machine-learning algorithms. *Comput Biol Med*. 2015 Jan;56:175-81. doi: 10.1016/j.compbio.2014.11.008. Epub 2014 Nov 20. **IF : 1.68**
48. Banerjee P, **Chaube R**, Joy KP. 2015. Molecular cloning, sequencing and tissue expression of vasotocin and isotocin precursor genes from Ostariophysian catfishes:

- phylogeny and evolutionary considerations in teleosts. *Front Neurosci.* 2015 May 15;9:166. doi: 10.3389/fnins.2015.00166. eCollection 2015. **IF: 3.7**
49. **Chaubé R**, Singh RK, Joy KP. 2015. Changes in vasotocin levels in relation to ovarian development in the catfish *Heteropneustes fossilis* exposed to altered photoperiod and temperature. *Fish Physiol Biochem.* 2015 May 31. [Epub ahead of print] **IF: 1.68**
 50. **Chaubé R**, Joy KP, Acharjee A. 2015. Catfish Gonadotrophins: Cellular Origin, Structural Properties and Physiology. *J Neuroendocrinol.* 2015 Jun;27(6):536-543. doi: 10.1111/jne.12286. **IF: 3.51**
 51. Mayank Choubey, **Radha Chaube** and Keerikkatil P. Joy. 2015. Toxic effects of lead nitrate Pb(NO₃)₂ on testis in the catfish *Heteropneustes fossilis*. *Pharmacologia.* Doi:10.5567/pharmacologia, 2015, 63-72 2015 Science Reuters:6 (2) : 63-72. 2015.
 52. Geeta J Gautam, **Radha Chaube** and Keerikkatil P. Joy. 2015. Toxicity and tissue accumulation of 4-nonylphenol in the catfish *Heteropneustes fossilis* with a note on prevalence of 4-NP in water samples. *Endocrine Disruptor* 3:1e981442 DOI:10.4161/23273747.2014.981442
 53. Acharjee A, **Chaubé R**, Joy KP. 2015. Molecular cloning and characterization of the gonadotropin subunits GP α , FSH β , and LH β genes in the stinging catfish *Heteropneustes fossilis*: Phylogeny, seasonal expression and pituitary localization. *J Exp Zool A Ecol Genet Physiol.* 2015 Jul 23. doi: 10.1002/jez.1949. [Epub ahead of print] **Impact factor : 1.667**
 54. Acharjee, A., **Chaubé, R.**, and Joy, K. P. 2017. Ovaprim, a commercial spawning inducer, stimulates gonadotropin subunit gene transcriptional activity: A study correlated with plasma steroid profile, ovulation and fertilization in the catfish *Heteropneustes fossilis*. *Gen Comp Endocrinol.* 2016 Oct 5. pii: S0016-6480(16)30293-3. doi:10.1016/j.ygcen.2016.10.001. **Impact factor : 2.667**
 55. *Distribution and localization of 3 β -hydroxysteroid dehydrogenase (3 β -HSD) in the brain and its regions of the catfish *Heteropneustes fossilis*.* Mishra S, **Chaubé R.** *Gen Comp Endocrinol.* 2016 May 6. pii: S0016-6480(16)30114-9. doi: 10.1016/j.ygcen.2016.04.031. **(Impact factor : 2.667)**
 56. *Structural and functional diversity of nonapeptide hormones from an evolutionary perspective : A review.* Banerjee P, Joy KP, **Chaubé R.** *Gen Comp Endocrinol.* 2016 Apr 29. pii: S0016-6480(16)30107-1. doi: 10.1016/j.ygcen.2016.04.025. **(Impact factor :2.667)**
 57. *In situ localization of Vasotocin and Isotocin precursor mRNA in brain and ovary of the catfish *Heteropneustes fossilis* and estrogen regulation of the gene expression.* Banerjee P, **Chaubé R**, Joy KP. *J. Transl. Neurosci* 2016. 1, 1-10.
 58. *Pentachlorophenol- induced maturation in catfish *Heteropneustes fossilis* : An in vitro study correlating with changes in steroid profiles.* **Chaubé R**, Pandey AK, Dubey S. *J. Pharm. Sci. Emerg. Drugs* 2016.4 1, 2 **ISSN: 2380-9477 IF : 0.2**
 59. *Effects of ovariectomy and estrogen replacement on expression of brain vasotocin receptor subtype genes in the catfish *Heteropneustes fossilis*.* Rawat A, **Chaubé R**, Joy KP. *Journal of Translational Neurosciences* 2016. 1 (1), 4
 60. *Localization of P450 aromatase in the brain of adult catfish *Heteropneustes fossilis* and regional distribution of estradiol-17 β and testosterone : Gender and seasonal differences.* Mishra S, **Chaubé R.** *Journal of Neurology and Neuroscience.* 2016. Vol. 7, No.1:77 ISSN No: 2171-6625 **(Impact factor : 0.88; ICV: 5.50)**
 61. Mishra S, **Chaubé R.** 2016. Dimorphic and stage-dependent variations in total and free cholesterol contents of brain and its regions in the catfish *Heteropneustes fossilis*..

International Journal of Zoology and Research (IJZR) Vol.6, Issue 3, Jun 2016, 7-20.
ISSN(Print) : 2278-8816 ; **(Impact factor : 2.1739; ICV : 6.1)**

62. Rawat A, **Chaube R**, Joy KP. 2016. Effects of the fish spawning inducer ovaprim on vasotocin receptor gene expression in brain and ovary of the catfish *Heteropneustes fossilis* with a note on differential transcript expression in ovarian follicles.. Gen Comp Endocrinol. 2016 Mar 7. pii: S0016-6480(16)30046-6. doi: 10.1016/j.ygcen.2016.03.002. **(Impact factor : 2.667)**
63. **Chaube R**, Rawat A, Joy KP. 2015. Molecular cloning and characterization of brain and ovarian cytochrome P450 aromatase genes in the catfish *Heteropneustes fossilis*: Sex, tissue and seasonal variation in, and effects of gonadotropin on gene expression. Gen Comp Endocrinol. 2015 Jul 2. pii: S0016-6480(15)00170-7. doi: 10.1016/j.ygcen.2015.06.004. **Impact factor : 2.667**
64. Acharjee, A., **Chaube, R.** and Joy,K.P. (2015, December) Effect of altered photoperiod and temperature on expression levels of gonadotropin subunit mRNA in the female catfish *Heteropneustes fossilis*. In Journal of Biomedical Reports, Vol. 2, Special ed. In Proceedings of National conference on recent advances in biomedical sciences and biotechnology Organized by Society for Biotechnologists (India), Lakeshore Hospital and Research Centre, Cochin, Kerala, India. ISSN No: 2395-0110 pp 54.
65. Banerjee, P., **Chaube, R.** and Joy,K.P. (2015, December)A new lineage of neurohypophysial nonapeptide precursor genes in teleost (Ostariophysi) traced to 3R: Evidence from the presence of an unique precursor gene and HPLC characterization of the peptide in the catfish . In Journal of Biomedical Reports, Vol. 2, Special ed. In Proceedings of National conference on recent advances in biomedical sciences and biotechnology Organized by Society for Biotechnologists (India), Lakeshore Hospital and Research Centre, Cochin, Kerala, India. ISSN No: 2395-0110 pp 67.
66. Rawat, A., **Chaube, R.** and Joy,K.P. (2015, December)In situ localization of vasotocin receptor gene transcripts in the brain-pituitary axis of the catfish *Heteropneustes fossilis*. In Journal of Biomedical Reports, Vol. 2, Special ed. In Proceedings of National conference on recent advances in biomedical sciences and biotechnology Organized by Society for Biotechnologists (India), Lakeshore Hospital and Research Centre, Cochin, Kerala, India. ISSN No: 2395-0110 pp 70
67. Mishra, S., **Chaube, R.** (2015, December)Estrogen regulation of steroid contents in the brain of the catfish *Heteropneustes fossilis*. In Journal of Biomedical Reports, Vol. 2, Special ed. In Proceedings of National conference on recent advances in biomedical sciences and biotechnology Organized by Society for Biotechnologists (India), Lakeshore Hospital and Research Centre, Cochin, Kerala, India. ISSN No: 2395-0110 pp 72-73
68. **Chaube, R.**, Rawat, A., Inbaraj, R.M., Bobe, J., Guiguen, Y., Fostier, A.and Joy,K.P. (2015, December) Molecular cloning and characterization of cytochrome P4501A1 (cyp1a1) in the catfish *Heteropneustes fossilis*: Sex, tissue and seasonal variations. In Journal of Biomedical Reports, Vol. 2, Special ed. In Proceedings of National conference on recent advances in biomedical sciences and biotechnology Organized by Society for Biotechnologists (India), Lakeshore Hospital and Research Centre, Cochin, Kerala, India. ISSN No: 2395-0110 pp 68-69
69. Acharjee A, Chaube R, Joy KP. 2017. Effects of altered photoperiod and temperature on expression levels of gonadotrophin subunit mRNAs in the female stinging catfish *Heteropneustes fossilis*. J Fish Biol. 2017 Apr 9. doi: 10.1111/jfb.13305.[Epub ahead of print] PubMed PMID: 28393358. **Impact factor : 1.667**
70. Chaube R, Rawat A, Inbaraj RM, Bobe J, Guiguen Y, Fostier A, Joy KP. 2017. Identification and characterization of a catechol-o-methyltransferase cDNA in the catfish

- Heteropneustes fossilis*: Tissue, sex and seasonal variations, and effects of gonadotropin and 2-hydroxyestradiol-17 β on mRNA expression. Gen Comp Endocrinol. 2017 May 15;246:129-141. doi: 10.1016/j.ygcen.2016.12.001. Epub 2016 Dec 8. PubMed PMID: 27939670. **Impact factor : 2.667**
71. Anuprabha., Abhigyan Nath and Radha Chaube 2017. A comparative analysis of thermophilic and psychrophilic metallopeptidases: involvement of bioinformatic approach. International Journal of Current Advanced Research Volume 6; Issue 2; February 2017; Page No. 2131-2138; ISSN: O: 2319-6475, ISSN: P: 2319 – 6505, **Impact Factor: SJIF: 5.438** DOI: 10.24327/IJCAR
 72. Acharjee A, **Chaube R** and Joy KP. 2016. Estrogen Regulation of Gonadotropin Subunit (GP α , FSH β , LH β) mRNA Expression during Sexually Quiescent and Breeding Phases in the Female Catfish *Heteropneustes fossilis* *Journal of Translational Neurosciences* Vol. 1 No. 2: 9
 73. Haleema Sabia and **Radha Chaube** 2017 Selection of Appropriate Inhibitor for Ovarian Type *Cytochrome P450 Aromatase* Gene of *Heteropneustes fossilis* with the Application of Homology Modeling, Molecular Docking and ADMET Analysis International Journal on Recent and Innovation Trends in Computing and Communication Volume: 5 Issue: 6 578 – 598 ISSN: 2321-8169 **IF: 5.837**
 74. Acharjee A, **Chaube R**, Joy KP. 2017. Ovaprim, a commercial spawning inducer, stimulates gonadotropin subunit gene transcriptional activity: A study correlated with plasma steroid profile, ovulation and fertilization in the catfish *Heteropneustes fossilis*. Gen Comp Endocrinol. 2017 Sep 15;251:66-73. doi: 10.1016/j.ygcen.2016.10.001. Epub 2016 Oct 5. **Impact factor : 2.667**
 75. Mishra S, **Chaube R**. 2017. Distribution and localization of 3 β -hydroxysteroid dehydrogenase (3 β -HSD) in the brain and its regions of the catfish *Heteropneustes fossilis*. Gen Comp Endocrinol. 2017 Jan 15;241:80-88. doi: 10.1016/j.ygcen.2016.04.031. Epub 2016 May 6. **Impact factor : 2.667**
 76. Banerjee P, Joy KP, **Chaube R**. 2017. Structural and functional diversity of nonapeptide hormones from an evolutionary perspective: A review. Gen Comp Endocrinol. 2017 Jan 15;241:4-23. doi: 10.1016/j.ygcen.2016.04.025. Epub 2016 Apr 29. Review. **Impact factor : 2.667**
 77. Joy KP, **Chaube R**, Trudeau VL..2017. Special issue of the international symposium on reproductive biology and comparative endocrinology: ISRBCE2015. Gen Comp Endocrinol. 2017 Jan 15;241:1-3. doi: 10.1016/j.ygcen.2016.03.016. Epub 2016 Mar 26. No abstract available. **Impact factor : 2.667**
 78. Rawat A, **Chaube R**, Joy KP. 2017. Effects of the fish spawning inducer ovaprim on vasotocin receptor gene expression in brain and ovary of the catfish *Heteropneustes fossilis* with a note on differential transcript expression in ovarian follicles. Gen Comp Endocrinol. 2017 Jan 15;241:24-32. doi: 10.1016/j.ygcen.2016.03.002. Epub 2016 Mar 7. **Impact factor : 2.667**
 79. Rawat A, **Chaube R**, Joy KP. 2018. In situ localization of vasotocin receptor gene transcripts in the brain-pituitary-gonadal axis of the catfish *Heteropneustes fossilis*: a morpho-functional study. Fish Physiol Biochem. 2018 Dec 3. doi: 10.1007/s10695-018-0590-1. [Epub ahead of print] **Impact factor : 2.467**
 80. Banerjee P, **Chaube R**, Joy KP. 2018. Molecular cloning and characterisation of an isotocin paralogue ([V8] isotocin) in catfishes (superorder Ostariophysi): Origin traced likely to the fish-specific whole genome duplication. J Neuroendocrinol. 2018 Nov;30(11):e12647. doi: 10.1111/jne.12647. Epub 2018 Oct 9. **Impact factor : 3.167**

81. Rawat A, **Chaube R**, Joy KP. 2018.Reproductive hormones modulate differentially brain and ovarian vasotocin receptor gene expression in early and late recrudescence catfish, *Heteropneustes fossilis*. Gen Comp Endocrinol. 2018 Jun 28. pii: S0016-6480(18)30220-X. doi: 10.1016/j.ygcen.2018.06.018. [Epub ahead of print] **Impact factor : 2.667**
82. Nath A, Kumari P, **Chaube R.** 2018.Prediction of Human Drug Targets and Their Interactions Using Machine Learning Methods: Current and Future Perspectives. Methods Mol Biol. 2018;1762:21-30. doi: 10.1007/978-1-4939-7756-7_2. **Impact factor : 10.719 147. 161**
83. Mishra A, **Chaube R**, Joy KP. 2018. An in vitro study on noradrenergic modulation of final oocyte maturation in the catfish *Heteropneustes fossilis*. Theriogenology. 2018 Jul 1;114:1-6. doi: 10.1016/j.theriogenology.2018.03.009. Epub 2018 Mar 15.
84. Acharjee A, **Chaube R**, Joy KP..2018..Reproductive stage- and sex-dependant effects of neurohypophyseal nonapeptides on gonadotropin subunit mRNA expression in the catfish *Heteropneustes fossilis*: An in vitro study. Gen Comp Endocrinol. 2018 May 1;260:80-89. doi: 10.1016/j.ygcen.2018.01.001. Epub 2018 Jan 3.
85. **Chaube R**, Mishra S, Singh RK. 2018. A comparison of steroid profiles in the testis and seminal vesicle of the catfish (*Heteropneustes fossilis*). Theriogenology. 2018 Jan 1;105:90-96. doi: 10.1016/j.theriogenology.2017.09.010. Epub 2017 Sep 9.
86. Geeta J.Gautam **Radha Chaube**, Keerikkattil P. Joy. 2018. In Vitro Effects of 4-Nonylphenol on Oocyte Maturation and Ovarian Steroid Hormone Dynamics in the Catfish *Heteropneustes fossilis* Aquaculture Studies 18(2), 15-27.
87. Haleema Sabia and **Radha Chaube**. 2018. CHITOSAN: INTRODUCTION AND ITS ROLE AS A DRUG DELIVERY VEHICLE. International Journal of Current Advanced Research 7(9B):15341-15348.
88. Geeta Gautam Jiwatram and **Radha Chaube**. 2018. Differential effects of heavy metals (Cadmium, cobalt, lead and mercury) on oocyte maturation and ovulation of the Catfish *Heteropneustes fossilis*: An In Vitro study. Turkish Journal of Fisheries and Aquatic Sciences 18(10):1205-1214
89. **Chaube R**, Rawat A, Sharma S, Senthilkumaran B, Bhat SG, Joy KP. 2019. Molecular cloning and characterization of a gonadotropin-releasing hormone 2 precursor cDNA in the catfish *Heteropneustes fossilis*: Expression profile and regulation by ovarian steroids. Gen Comp Endocrinol. 2019 Sep 1;280:134-146. doi: 10.1016/j.ygcen.2019.04.021. Epub 2019 Apr 20.
90. Sharma S, **Chaube R**. 2019. Molecular cloning and characterization of secretogranin II in the catfish *Heteropneustes fossilis*: Sex and seasonal brain regional variations and its gonadotropin regulation. Comp Biochem Physiol A Mol Integr Physiol. 2019 Jun; 232:13-27. doi: 10.1016/j.cbpa.2019.02.020. Epub 2019 Feb 25.
91. Kusum, Rai S and **Chaube R**. Endometriosis: Role of Aromatase and Recent Advances in the Disease Treatment. Austin J Obstet Gynecol. 2019; 6(2): 1137-1143.
92. Kusum, Rai S, Singh K and **Chaube R**. 2019. Endometriosis: pronouncing in reproductive women with role of estrogen and aromatase. Proceedings of the Zoological Society of India. 2019; 18(1): 1-7.
93. Shree P, Yadav D, Singh VK, **Chaube R** and Tripathi YB. 2019.Modulation of m tor receptor in diabetic nephropathy by Santalina of Lalchandani (*Pterocarpous santalinus*): an *in-silico* assessment by molecular docking. Int J Pharm Sci & Res 2019; 10(3): 1115-21. doi: 10.13040/IJPSR.0975-8232.10(3). 1115-21.

94. Singh S and **Chaube R** (2019) Toxicological Impact of Pentachlorophenol on the Hepatic and Reproductive Activity of the Stinging Catfish *Heteropneustes fossilis*. *Aquaculture Studies*, 19: 2, 139-145 http://doi.org/10.4194/2618-6381-v19_2_07
95. **Chaube R**, Sharma S, Senthilkumaran B, Bhat SG, Joy KP. 2020. Identification of kisspeptin2 cDNA in the catfish *Heteropneustes fossilis*: Expression profile, in situ localization and steroid modulation. *Gen Comp Endocrinol*. 2020 Mar 31;294:113472. doi: 10.1016/j.ygcen.2020.113472.
96. Nirupam Roy, Amitrajit Pal and **Radha Chaube**. 2020. COVID 19: A SYSTEMATIC APPROACH TO COMBAT THE DEADLY VIRUS. *International Journal of Biological Innovations IJBI* 2 (2), (DECEMBER 2020) 88-94. DOI: <https://doi.org/10.46505/IJBI.2020.2202> E-ISSN: 2582-1032.
97. Priya Shree, Priyanka Mishra, Chandrabose Selvaraj, Sanjeev Kumar Singh, **Radha Chaube**, Neha Garg & Yamini Bhusan Tripathi (2020) Targeting COVID-19 (SARS-CoV-2) main protease through active phytochemicals of ayurvedic medicinal plants – *Withania somnifera* (Ashwagandha), *Tinospora cordifolia* (Giloy) and *Ocimum sanctum* (Tulsi) – a molecular docking study, *Journal of Biomolecular Structure and Dynamics*, DOI: [10.1080/07391102.2020.1810778](https://doi.org/10.1080/07391102.2020.1810778)
98. Chaube R, Sharma S, Senthilkumaran B, Bhat SG, Joy KP. Expression profile of kisspeptin2 and gonadotropin-releasing hormone2 mRNA during photo-thermal and melatonin treatments in the female air-breathing catfish *Heteropneustes fossilis*. *Fish Physiol Biochem*. 2020 Oct 8. doi: 10.1007/s10695-020-00888-4. Epub ahead of print. PMID: 33030711.
99. Kusum Kusum, Sandeep Patel, **Radha Chaube**, Ashish Ashish, Sangeeta Rai. 2020. Aromatase gene polymorphism (rs2170152) in Polycystic ovary syndrome patients of eastern Uttar Pradesh Population. *Journal of Clinical and Diagnostic Research*. 2020 Oct Vol-14 (10). QC01-QC05. DOI: 10.7860/JCDR/2020/44643.14098.
100. Kusum, Rai S, Singh K and **Chaube R**. (2019) Endometriosis: pronouncing in reproductive women with role of estrogen and aromatase. *Proc. Zool. Soc .India*. 18(1): 1-7.
101. Kusum, Rai S and **Chaube R**. (2019) Endometriosis: Role of Aromatase and Recent Advances in the Disease Treatment. *Austin J Obstet Gynecol*. 6(2): 1137-1143.
102. Shree P, Mishra P, Kumar P, Pandey H, Giri R, **Chaube R**, Garg N, Tripathi YB.J 2021. In silico screening of *Pueraria tuberosa* (PTY-2) for targeting COVID-19 by countering dual targets M^{pro} and TMPRSS2. *Biomol Struct Dyn*. 2021 Aug 23:1-14. doi: 10.1080/07391102.2021.1965029
103. Singh V, **Chaube R**, Joy KP. 2021. Vasotocin stimulates maturation-inducing hormone, oocyte maturation and ovulation in the catfish *Heteropneustes fossilis*: Evidence for a preferential calcium involvement. *Theriogenology*. 2021 Jun;167:51-60. doi: 10.1016/j.theriogenology.2021.03.001.
104. Kusum Kusum, Ashish Ashish, Sangeeta Rai, Royana Singh and **Radha Chaube** 2021. Modulation of Aromatase (CYP19) Gene in the Testis of Mice Under the Exposure of 4-Nonylphenol. Volume 4 Issue 7 July 2021 *Acta Scientific Neurology* 4.7 (2021): 65-69

105. Ashish A, Kusum K, Rai S, Zahra K, Mishra SP, Rai G et al. Inflammatory cytokine profile of VEGF and IL-6 from the endometrium of women with and without endometriosis. *Int J Reprod Contracept Obstet Gynecol* 2021;10:965-70.
106. Ashish Ashish, Kusum Kusum, Sangeeta Rai, **Radha Chaube**, Shivani Mishra, Royana Singh. Endometriosis Diagnosis and Management in Adolescent Patients and Current Treatment Regimes. *Central African Journal of Public Health*. 7, No. 2, 2021, pp. 61-64. doi: 10.11648/j.cajph.20210702.13
107. Ashish A, **Kusum K**, Rai S, Kumar B, Chaubey R, Patel S et al. Hospital based study on endometriosis among infertile women from the population of Eastern UP, INDIA. *J. Appl. Biosci.* 2020; 46(1, 2):1-2.
108. Kusum K, Ashish A, Singh R, **Chaube R**. Exposure of 4-Nonylphenol: Effect on Physiology and Reproductivity of Male Mice. *Journal of Clinical and Diagnostic Research*. 2021 Mar, Vol-15(3): AC01-AC05.
109. **Chaube R**, Rawat A, Inbaraj RM, Joy KP. 2021. Cloning and characterization of estrogen hydroxylase (cyp1a1 and cyp1b1) genes in the stinging catfish *Heteropneustes fossilis* and induction of mRNA expression during final oocyte maturation. *Comp Biochem Physiol A Mol Integr Physiol*. 2021 Mar;253:110863. doi: 10.1016/j.cbpa.2020.110863.
110. Suman , **Radha Chaube** , and Gautam Geeta Jiwatram. 2021. 4-Nonylphenol affects the structure and function of testis in catfish *H. fossilis* and *C. batrachus*. Volume 65, Issue 5, 2021 *Journal of Scientific Research of The Banaras Hindu University*. pp155-163 DOI: 10.37398/JSR.2021.650517
111. **R. Chaube**, S. Sharma, B. Senthilkumaran , S.G. Bhat, K.P. Joy, 2021. Kisspeptins stimulate the hypothalamus - pituitary - ovarian axis and induce final oocyte maturation and ovulation in female stinging catfish (*Heteropneustes fossilis*): Evidence from in vivo and in vitro studies. *Aquaculture*,548 <https://doi.org/10.1016/j.aquaculture.2021.737734>
112. Geeta J. Gautam • **Radha Chaube**. 2021. Toxic Impact of Alkylphenols on the Fish Reproduction and Endocrine Disruption. *Proc Zool Soc* <https://doi.org/10.1007/s12595-021-00416-z>
113. Geeta J. Gautam and **Radha Chaube**. 2021. Modulation of antioxidant defence system in ovary and liver of catfish *Heteropneustes fossilis* (Bloch, 1794) and induction of atresia in ovary after chronic exposure of 4-Nonyl phenol. *Journal of Experimental Zoology, India*. Volume 24, No. 1, 761-774. doi:http://connectjournals.com/03895.2021.24.000
114. Suman, **R. Chaube** and G.J. Gautam 2022. Modulation of testicular activity in Indian stinging catfish *Heteropneustes fossilis* under acute exposure to 4- Nonylphenol. *J. Environ. Biol.*, 43, 188-196 (2022).

115. Rawat A, **Chaube R**, Joy KP. Air sac and gill vasotocin receptor gene expression in the air-breathing catfish *Heteropneustes fossilis* exposed to water and air deprivation conditions. *Fish Physiol Biochem*. 2022 Feb 15. doi: 10.1007/s10695-022-01058-4. Epub ahead of print. PMID: 35166960.
116. Surabhi Mishra and **Radha Chaube**. 2022. Dimorphic distribution of progestins and cortisol in the brain of Indian stinging catfish *Heteropneustes fossilis* (Bloch) during different reproductive phases. *Journal of Scientific Research of The Banaras Hindu University*. 66(01):249-260. DOI: [10.37398/JSR.2022.660127](https://doi.org/10.37398/JSR.2022.660127)
117. Deeksha Singh and **Radha Chaube**. 2021. RECYCLING OF SEWAGE IN AQUACULTURE: AN OVERVIEW. *International Journal of Biological Innovations* <http://ijbi.org.in> | <http://www.gesa.org.in/journals.php> Doi: <https://doi.org/10.46505/IJBI.2021.3221> IJBI 3(2): 392-401 (2021) E-ISSN: 2582-1032
118. Shree P, Pandey N. **Chaube R**, Garg N, and Tripathi Y.B. 2022. Gene network analysis of Diabetic Nephropathy and its associated diseases- An in silico study. Vol. 17 (3) March (2022) *Res. J. Biotech*.
119. Surabhi Mishra and **Radha Chaube**. 2022. Impact of ovariectomy and estradiol-17 β (E2) replacement on the brain steroid levels of the Indian stinging catfish *Heteropneustes fossilis*. *Aquaculture and Fisheries*. (In press)
120. Bnaerjee P, **Chaube R**, Joy K.P. 2022. Catecholamines modulate differentially nonapeptide precursor mRNA expression in the preoptic area and ovary of the catfish *Heteropneustes fossilis*: an in vitro study (Under revision)
121. Tapan Chourasia, **Radha Chaube**, K.P.Joy. 2022. *Seasonal dynamics, kinetics, and effects of 2-hydroxyestradiol-17 β on some steroidogenic enzymes in the ovary of the catfish Heteropneustes fossilis* *Aquaculture and Fisheries*. DOI: [10.1016/j.aaf.2022.03.010](https://doi.org/10.1016/j.aaf.2022.03.010)
122. Kusum, Kusum; RAJ, RITU; Rai, Sangeeta; Pranjali, Pranjali; Ashish, Ashish; Vicente-Munoz, Sara ; **Chaube, Radha**; Kumar, Dinesh. 2022. Elevated circulatory proline-to-glutamine ratio (PQR) in endometriosis and its potential as a diagnostic biomarker": *ACS omega* (Accepted)

Cloning and sequencing of various genes in the catfish model (*Heteropneustes fossilis*)-NCBI Database

1. Acharjee, A., **Chaube, R.** and Joy, K.P. 2013. Direct Submission *Heteropneustes fossilis* luteinizing hormone beta subunit mRNA, complete cds. KF573628.1 GI:559807286 KF573628 628 bp mRNA linear VRT 01-DEC-2013
2. Joy, K.P., Acharjee, A. and **Chaube, R.** 2013. Direct Submission KF573627.1 GI:559807284KF573627 622 bp mRNA linear VRT 01-DEC-2013

- Heteropneustes fossilis* follicle stimulating hormone beta subunit mRNA, complete cds.
3. **Chaube, R.**, Acharjee, A. and Joy,K.P. 2013. Direct Submission KF573626.1 GI:559807282KF573626 481 bp mRNA linear VRT 01-DEC-2013*Heteropneustes fossilis* glycoprotein hormones alpha chain mRNA,complete cds.
 4. Joy,K.P., Rawat,A. and **Chaube, R.** 2013. Direct Submission KF434617.1 GI:557362395 KF434617 2014 bp mRNA linear VRT 12-NOV-2013 *Heteropneustes fossilis* vasotocin receptor V2 mRNA, complete cds
 5. Rawat, A., **Chaube, R.** and Joy,K.P. 2013. Direct SubmissionKF434615.1 GI:557362391KF434615 1682 bp mRNA linear VRT 12 NOV2013 *Heteropneustes fossilis* vasotocin receptor V1a1 mRNA, complete cds.
 6. **Chaube, R.**, Rawat, A. and Joy, K. P. 2013 Direct SubmissionKF434616.1 GI:557362393KF434616 1542 bp mRNA linear VRT 12-NOV-2013 *Heteropneustes fossilis*vasotocin receptor V1a2 mRNA, complete cds
 7. **Chaube, R.**, Rawat, A. and Joy, K. P. 2013. Cloning and sequencing of ovarian type of cytochrome P450 aromatase gene in the catfish *Heteropneustes fossilis*, Accession : **KF164286**; GI: 544169300; 865 bp mRNA linear VRT 22-SEP-2013 *Heteropneustes fossilis* ovarian type cyp19a aromatase mRNA, partial cds
 8. **Chaube, R.** Rawat,A. and Joy, K.P. 2013. Molecular cloning and characterization of cytochrome P450 aromatase gene in the catfish, *Heteropneustes fossilis* Accession : JN399998.2 GI:511778422 1207 bp mRNA linear VRT 13-JUN-2013 *Heteropneustes fossilis* cytochrome P450 aromatase mRNAs, partialcds
 9. Joy,K.P., Banerjee,P., Rawat, A. and **Chaube, R.** 2012. Isolation and cloning of a novel neurohypophyseal nonapeptide hormone-precursor gene in the catfish *Heteropneustes fossilis* Accession: JX669010.1 GI:414081441 JX669010 619 bp mRNA linear VRT 18-NOV-2012 *Heteropneustes fossilis* sevotocin-neurophysin precursor, mRNA,completecds
 10. **Chaube, R.**, Banerjee,P. and Joy,K.P. 2012. Isolation and cloning of isotocin gene in the catfish *Heteropneustes fossilis*Accession :JX669009.1 GI:414081439JX669009 708 bp mRNA linear VRT 18-NOV-2012 *Heteropneustes fossilis*isotocin-neurophysin precursor, mRNA,completecds.
 11. Banerjee,P., **Chaube, R.** and Joy,K.P.2012 Direct SubmissionJX035928.1 GI:397914241JX035928 618 bp mRNA linear VRT 01-AUG-2012*Heteropneustes fossilis* vasotocin neurophysin mRNA, complete cds.
 12. **Chaube, R.** and Joy,K.P 2011 Direct SubmissionJN654700.1 GI:354463188JN654700 333 bp mRNA linear VRT 31-OCT-2011*Heteropneustes fossilis* beta-actin mRNA, partial cds.
 13. Tingaud-Sequeira,A., **Chaube, R.**, Singh,V., Joy,K.P. and Cerda,J.04 Mar. 2010 (submitted, Cloning of catfish aquaporin-1b, GU972557 624 bp mRNA linear VRT 02-JAN-2013, *Heteropneustesfossilis* aquaporin-1b (Aqp1b) mRNA, partial cds.
 14. Tingaud-Sequeira,A., **Chaube,R.**, Singh,V., Joy,K.P. and Cerda,J.2010, Molecular and functional characterization of catfish (*Heteropneustes fossilis*) aquaporin-1b: Changes in expression during ovarian development and hormone-induced follicular maturation, HM051492 800 bp mRNA linear VRT 28-DEC-2010, ***Heteropneustes fossilis*aquaporin-1b mRNA, complete cdsGenBank: HM051492.1**

15. Chaube,R., Rawat,A. and Joy,K.P. 2014. Heteropneustes fossilis cytochrome P450 aromatase mRNA, complete cds Ovarian type cytochrome P450 aromatase gene of Heteropneustes fossilis KJ619628 1913 bp mRNA linear VRT 22-JUN-2014
16. **Chaube R.**, Rawat,A. and Joy, K.P. 2014. *Heteropneustes fossilis* cytochrome P450 aromatase mRNA, complete cds. Brain type cytochrome P450 aromatase gene of Heteropneustes fossilis KJ619627 2006 bp mRNA linear VRT 22-JUN-2014
17. Acharjee,A., Chaube,R. and Joy,K.P. 2014. Sex determination in catfish Heteropneustes fossilis Heteropneustes fossilis doublesex and mab-3 related transcription factor 1 (DMRT1) mRNA, partial cds. KJ755329 597 bp mRNA linear VRT 29-JUL-2014
18. Joy, K.P., Chaube, R. and Acharjee, A. 2014. Sex determination in catfish *Heteropneustes fossilis*, *Heteropneustes fossilis* sex determining region Y-box 9a (Sox9a) mRNA, partial cds. KJ755330 498 bp mRNA linear VRT 29-JUL-2014
19. Chaube, R., Acharjee, A. and Joy, K.P. 2014. Sex determination in catfish *Heteropneustes fossilis* *Heteropneustes fossilis* forkhead transcription factor 2 (Foxl2) mRNA, partial cds. KJ755331 415 bp mRNA linear VRT 29-JUL-2014
20. Rawat,A., Chaube,R., Joy,K.P., Fostier,A., Guiguen,Y., Bobe,J. And Inbaraj,M.R. 2015. Heteropneustes fossilis cytochrome P4501A1 (CYP1A1) mRNA, complete cds . *H. fossilis Cyp1a1 mRNA, complete cds (KT597926)* KT597924 2071 bp mRNA linear VRT 14-FEB-2016
21. **Chaube,R.**, Joy,K.P., Rawat,A., Fostier,A., Guiguen,Y., Bobe,J. And Inbaraj,M.R. 2015. Heteropneustes fossilis cytochromes P4501B1 (CYP1B1) mRNA, complete cds. *H. fossilis Cyp1b1 mRNA, complete cds (KT597927 KT597926)* 1927 bp mRNA linear VRT 14-FEB-2016
22. Joy,K.P., **Chaube,R.**, Rawat,A., Fostier,A., Guiguen,Y., Bobe, J. and Inbaraj, M.R. Heteropneustes fossilis catechol-O-methyltransferase (COMT) mRNA,complete cds. *H. fossilis COMT mRNA complete cds(KT597925)* KT597925 1442 bp mRNA linear VRT 14-FEB-2016
23. Joy,K.P., Banerjee,P. and Chaube,R. 2016. Clarias batrachus Sevatoxin-neurophysin mRNA, complete cds. *Clarias batrachus Sevatoxin mRNA complete cds* KY123123 719 bp mRNA linear VRT 17-FEB-2017
24. **Chaube,R.**, Banerjee,P. and Joy,K.P. 2016 Clarias batrachus vasotocin mRNA, complete cds. *Clarias batrachus Vasotocin mRNA complete cds* KY123124 807 bp mRNA linear VRT 17-FEB-2017
25. Banerjee,P., **Chaube,R.** and Joy,K.P. 2016. Clarias batrachus isotocin nonapeptide mRNA, complete cds *Clarias batrachus Isotocin mRNA complete cds* KY123125 721 bp mRNA linear VRT 17-FEB-2017
26. **Chaube R.**, Rawat A, Joy K.P. *H. fossilis GnRH type 2 chicken like mRNA complete cds* BankIt2019754 GnRH MF166829
27. Sharma, S. and **Chaube,R** 2016 *H. fossilis secretogranin IIb mRNA complete cds* KY123122 2912 bp mRNA linear VRT 17-FEB-2017

28. Sharma,S. and Chaube,R Heteropneustes fossilis secretogranin III (scgIII) mRNA, complete cds GenBank: MG872313.1 2606 bp mRNA linear VRT 10-NOV-2018
29. Sharma,S. and Chaube,R. Heteropneustes fossilis secretogranin V (scgv) mRNA, complete cds GenBank: MG872312.1 1278 bp mRNA linear VRT 10-NOV-2018
30. Chaube,R., Sharma,S. and Joy,K.P Heteropneustes fossilis kisspeptin (kiss2) mRNA, complete cds GenBank: MH032757.1 605 bp mRNA linear VRT 28-NOV-2018

Invited Lectures/ Seminars

- 1.Delivered invited lecture on Endocrine Disruptors and Human Health at International Symposium on Environmental , Educational and Biological Research for Human welfare EEBRHW-2018 25-26, March, 2018. Organised by Society for Educational Development and Environmental ResearchVaranasi.
2. Chaired session as chairperson in International Symposium on Environmental , Educational and Biological Research for Human welfare EEBRHW-2018 25-26, March, 2018. Organised by Society for Educational Development and Environmental ResearchVaranasi.
3. Delivered Invited lecture in the International Conference on Neuroscience and XXXVI annual meeting on Indian Academy of neurosciences Oct 29-31, 2018 on Translational Research in Improving Mental Health. Organized by Centre of Advanced study, Dept of Zoology, BHU, VNS, India
- 4.Participated and delivered Invited oral talk on An update on catfish gonadotropins and its physiological significance at International conference on emerging researches in Biosciences (ICERB-2018), 28- 30 th October, BilaspurChattisgarh
5. Participated and presented Invited lecture in the International conference on Advances in Biological and Environmental Research for Human welfare ICABERHW-201816-18November, 2018,Organized by Dept. of Zoology, DDU, Gorakhpur University, U.P, India

A. Details of invited talks delivered in international conferences/meetings during last 5 years

1. Delivered Keynote lecture in Aqualife-2019, Kualampur, Malaysia, 14-15Oct, 2019
2. Participated and delivered talk as speaker at 37th Annual meet of Indian Academy of Neurosciences “Neuron to Behaviour”18-21 November, 2019 Organized by Department of Anatomy and Physiology. All India Institute of Medical Sciences, New Delhi.
3. Participated and delivered invited lecture at International conference on Neuroscience and 36thAnnuual meeting of Indian Academy of Neurosciences on Translational Research in Improving Mental Health , October 29-31, 2018 at Department of Zoology, Institute of Science, BHU.

4. Participated and delivered lecture at International conference on Emerging Researches in Biosciences (ICERB-2018), Department of Zoology, School of studies in life Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) , October, 28-30, 2018.
5. 30th All India Congress of Zoology and National Seminar on Advances in Zoology for Sustainable Development sponsored by UGC-SAP and Indian Science Congress Association Kurukshetra, organised by Department of Zoology, Kurukshetra University, Kurukshetra., February, 15-17, 2018.
6. Participated and delivered lecture at International conference on Advancement in Science and Technology, ICAST-2018 organised by Indian JSPS Alumini Association in association with Dept. Of Physics, Visva –Bharti, Santiniketan.3-4th Sept, 2018.
7. Participated and delivered lecture at International, served as Chairperson at International Symposium on Enviromental, Educational and Bilogical Research for Human Welfare EEBRHW-2018 Organised by society for Educational Development and Environmental Research, Varanasi, 25-26 March, 2018
8. Delivered invited talk in Israel titled “Catfish aromatase and its physiological significance under INSA INDO-ISRAEL visit.October, 2018

Reviews, Chapters in Books and Symposium Proceedings

1. P. Banerjee, R. Chaube, K.P.Joy. 2011. Cloning and characterization of vasotocin in the catfish *Heteropneustes fossilis*: Seasonal and tissue expression studies. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol:4 Issue: S8 ISSN: 0974-6846, pp-19-20.
2. R. Chaube, R. K. Singh, K. P. Joy. 2011. Effects of Etiocholanone glucuronide, a putative pheromone on brain and plasma vasotocin levels in the catfish *Heteropneustes fossilis*. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol : 4 Issue: S8; ISSN : 0974-6846, pp-25-26.
3. A. Rawat, R. Chaube, K. P. Joy. 2011. Partial cloning and characterization of vasotocin1a receptor gene in the catfish *Heteropneustes fossilis*: Seasonal and tissue expression study. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011.

Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 ISSN: 0974-6846, pp-43-44.

4. R. K. Singh, R. Chaube, **K. P. Joy**. 2011. Effects of catecholamines on brain and plasma vasotocin levels in the catfish *Heteropneustes fossilis*. In proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 ISSN: 0974-6846, pp-54-55.
5. V. Singh, R. Chaube, Chourasia T. K, **Joy K.P.** 2011. Effects of α -methylparatyrosine, a catecholamine inhibitor on ovarian steroid hormone levels in the catfish *Heteropneustes fossilis*. In: Proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 ISSN: 0974-6846, pp-169-170.
6. A. Acharjee, R. Chaube, **K. P. Joy**, J. Cerda. 2011. Hormonal regulation of aquaporin-1ab in *Heteropneustes fossilis* oocytes in vitro. In: Proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 ISSN: 0974-6846, pp-165-166.
7. G.J. Gautam, R. Chaube, **K. P. Joy**. 2011. 4-nonylphenol impairs ovarian recrudescence and induces atresia in the catfish *Heteropneustes fossilis*. In: Proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8 ISSN: 0974-6846, pp-165-166.
8. K.P. Joy and R. Chaube. (2018) Advances in reproductive physiology of fish: insights into brain pituitary gonadal endocrine axis. Aquaculture in India, Ch. 17, pp 333-354. Eds. S.D. Tripathi, W.S. Lakra and N.K. Chadha, Narendra Publishing House, Delhi, India.
9. K.P. Joy and **R. Chaube**. 2013. Ovarian Catecholestrogens : Role in final oocyte maturation. Review in Book: Sexual Plasticity and Gametogenesis in Fishes, pp 115-130 <http://www.novapublishers.com> Ed. B. Senthilkumaran NOVA Science Publishers Inc. USA 2013 ISBN : 978-1-62618-848.

Books /Special Volumes Edited

- [Joy K. P.](#), [Chaube R.](#), [Trudeau V. L.](#) (Guest Editors) (2017). Special issue of the international symposium on reproductive biology and comparative endocrinology: ISRBCE2015. [Gen Comp Endocrinol.](#) 241:1-3. doi: 10.1016/j.ygcen.2016.03.016
- Joy K. P., Inbaraj R.M., Kirubakaran R. and **Chaube R.** Guest Editors (2013). Fish Reproductive Physiology. Special Issue. Fish Physiology and Biochemistry, Vol 39, pp. 1-106. Springer, Amsterdam
- Joy K. P., Inbaraj R.M., Kirubakaran R. and **Chaube R.** Editors (2011). Proceedings of 9th International Symposium on Reproductive Physiology of Fish. Cochin, India August 9-14, 2011. Published by Indian Society for Education and Environment (ISEE) Suppl. Vol: 4 Issue: S8, ISSN: 0974-6846. Chennai.

(iii) Coveted position at the scientific conference (President/Secretary/Chairman of session/Symposium/Panel Discussion –Details)

- a) Session chairperson at IJAA, Goa, 2017
- b) National Advisory for organisation of 9th IJAA meeting at Santiniketan, September, 2018
- c) National Advisory member for International Conference at Bilaspur, November, 2018-
- d) Organizing Secretary at National Workshop on Applications of Proteomics in Endocrinology, 17-23rd November, 2018