



Chirps

ANNUAL NEWSLETTER

Department of Zoology

Holy Cross College (Autonomous), Nagercoil

Re-accredited by NAAC with 'A' Grade (CGPA: 3.34)

Volume : 3

April 2018



From the Principal's Desk.....

Greetings to all!

It gives me immense joy that Department of Zoology, Holy Cross College, Nagercoil has brought forth the Newsletter "CHIRPS" for this academic year 2017-2018. It reflects back on the events, highlights the performance and achievements of the members of the department who works with the vision "Achieve excellence through quality education and research, relevant to societal demands". I appreciate each member of the department for their sincere efforts throughout this academic year and congratulate the Editors for their hard work and efforts in preparing this issue of Annual Newsletter, "CHIRPS"!

Dr. Sr. M. R. Basil Rose

Foreword from the Head of the Department

The Department of Zoology is happy to release the third issue of its Annual Newsletter 'Chirps', which carries the achievements and contributions of the students and faculty during the academic year 2017 - 2018. I am very proud to witness our Department release such an amazing newsletter.

I wish all success as we march ahead into the future and I pray that the good Lord Almighty bless the department and all its endeavours.

Regards

Mrs. J. Alice Prema



Activities of the Department

Welcoming the Freshers: With the reopening of this academic year on 16th June 2017, we welcomed the UG & PG fresher's into the portal of Zoology Department on 19th June 2017 and 3rd July 2017 respectively.

We welcome Ms. N. Latha, Ms. F. Vargila & Ms. R.K. Rathika to the research center to Pursue their Ph.D. programme.

Milestone in our Department: Memorandum of Understanding (MoU) was signed with Inbiotics, Research Laboratory, William Hospital Campus, Nagercoil on 28th February 2018. As a part of MoU, a collaborated programme of a Ph. D. public viva-voce examination was held in the College premises on 7th March 2018 for Mr. Antro Jennie & Ms. Jenila Bejacks - Research Scholars of Dr. Srinivasa Kumar, Director, Inbiotics.



Subscribed an UGC listed Journal **"Ecology and Fisheries"** with ISSN: 0974-6323

Major/ Minor Projects (Sanctioned)

1. SERB-DST has sanctioned Rs. 29,62,220/- towards a Major Project on the topic "Endocrinological approach to address optimized productivity of lobsters inhabiting coastal Kanyakumari" to **Dr. A. Shyla Suganthi** on 13.06.2017 and released Rs. 13,46,000/- on 22.03.2018; Link No. EMR/2016/ 007215.

2. **Dr. Jeni Chandar Padua** received a TNSCST Student Project (Jisha Hanna Selson, Bebina R. Cleetus & Nageswari, II M.Sc. Zoology) of Rs. 9,100/- for investigating "Embryonic development and organogenesis of the zebra fish, *Danio rerio* treated with Indian herbal extracts" on 27.01.2018; Link No. BS-005.

Conference/Workshop Organised

The Entrepreneurship & Career Guidance Cell of Holy Cross College, Nagercoil under the able guidance of **Dr. Sr. M.R. Basil Rose** (Chief Co-ordinator) & **Dr. A. Shyla Suganthi** (Co-ordinator) had organized NSTEDP-DST, Govt. of India sponsored three days (20.09.2017 - 22.09.2017) "Entrepreneurship Awareness Camp".

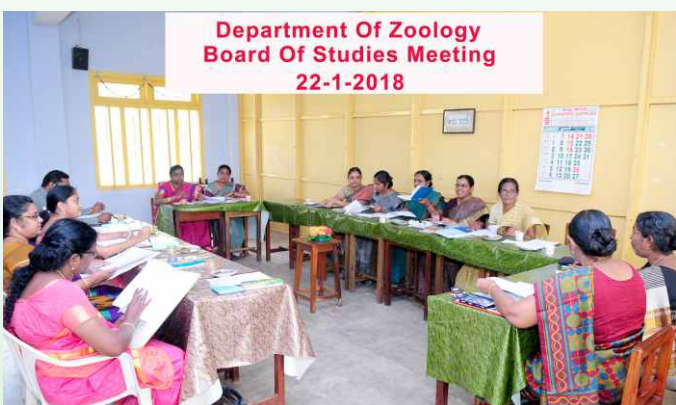




An **International Conference on “Genomics”** was organized on 06.01.2018. **Dr. K. Marimuthu**, AIMST University, Malaysia delivered the Keynote Address. **Prof. Dr. Samuel Gnana Prakash Vincent**, Head, CMST, Manonmaniam Sundaranar University, Rajakkamangalam, **Prof. Dr. Sudhakar Sivasubramaniam**, Head, Dept. of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli and **Dr. M. Jayalakshmi**, Asst. Professor, Dept. of Immunology, School of Biological Sciences, Madurai Kamaraj University served as the resource persons. A **Book on “Environmental Science”** edited by Dr. Jeni Chandar Padua, Sr. M.R. Basil Rose & Dr. S. Mary Mettilda Bai was released at the same programme.



Board of Studies was held on 22nd January 2018 in the presence of Dr. Issac Sudhakar (St. John's College, Palayamkottai) as University Nominee; Dr. Priya Rajendran (Lady Doak College, Madurai) and Dr. Delphine Rose (Jeyaraj Annapackiam College, Periyakulam), as Subject experts and Dr. Leena (Scott Christian College, Nagercoil), as the Alumnae.



Refresher / Orientation Course attended:

1. **Dr. S. Mary Mettilda Bai & Dr. J. Vinoliya Josephine Mary** - Refresher Course in Life Science from 5th to 25th July 2017 - Bharathiar University, Coimbatore.
2. **Mrs. P.T. Arokya Glory** - Refresher Course in Bio-Sciences from 26th October 2017 to 15th November 2017 - Bharathithasan University, Trichy.
3. **Dr. A. Shyla Suganthi** - Refresher Course in Life Sciences from 8th to 28th November 2017, University of Kerala, Kariavattom.
4. **Dr. Jeni Chandar Padua** - Orientation Course from 22nd November 2017 to 19th December 2017, University of Kerala, Kariavattom.

Staff as Co-ordinators

Mrs. Y. Mary Saroja	:	Eco Club
Dr. F. Brisca Renuga	:	Dean of Science
Dr. J. Vinoliya Josephine Mary	:	YRC
Dr. Jeni Chandar Padua	:	Rotaract Club
Dr. C. Josephine Priyatharshini	:	Guidance & Counseling Committee





Staff as Subject experts

Dr. Jeni Chandar Padua	Visiting Researcher - 'ZebraBiores' Research Centre, Universidad de Santiago de Compostela, Spain.
Dr. F. Brisca Renuga	Adjudicator for Ph. D Viva-voce examination conducted at Govt. Arts College, Udagamandalam.
Dr. J. Vinoliya Josephine Mary & Dr. S. Mary Mettilda Bai	External Examiner - M.Phil Dissertation Valuation, Jayaraj Annapackiam College for Women, Periyakulam.
Dr. J. Vinoliya Josephine Mary	Reviewer of M. Phil Scholars Dept. of Zoology, Scott Christian College, Nagercoil.
Dr. F. Brisca Renuga	Subject Expert - Board of Studies, Dept. of Zoology, St. Mary's College, Tuticorin.

Details of Accession Numbers in GenBank/ Barcode

P. Anusuya, T.G. Teeni Janet Raj, T.G. Tyni Joice Raj & A. Shyla Suganthi	17.05.2017 -MF093144 (Primer: 16S) <i>Ochrobactrum anthropi</i> Strain AST1
Teeni Janet Raj, A. Shyla Suganthi & G. Anil Kumar	31.05.2017 - HCZB06MF162294 (Primer: 18S) 2017 <i>Paratelphusa jacquemontii</i>
Teeni Janet Raj, A. Shyla Suganthi & G. Anil Kumar	28.07.2017 -HCZBO6a - MF288044 (Primer: COX I) <i>Barytelphusa jacquemontii</i>
R. Thanamalini & A. Shyla Suganthi	19.03. 2017- HCZB02- KX550280(Primer: COX I) BIN: ID AA 166452018 - <i>Grapsus tenuicrustatus</i>
R. Thanamalini & A. Shyla Suganthi	19.03.2018- HCZBO4 (STO3) KY780188 BIN: ID ACB 5373 - <i>Menippe rumphii</i>
R. Thanamalini & A. Shyla Suganthi	19.03.2018 - HCZBO5 (STO1) KY780186 BIN: ID ACB 4063 - <i>Atergatis integerrimus</i>
T.G. Teeni Janet Raj, T.G. Tyni Joice Raj , A. Shyla Suganthi & G. Anil Kumar	02.04.2018 - MH129520 primer: ITS – 2 – <i>Paratelphusa jacquemontii</i>
Teeni Janet Raj, A. Shyla Suganthi, G. Anil Kumar	16.04.2018 - <i>Panulirus polyphagus</i> - MH188549

Awards Received by Faculty

Dr. Jeni C. Padua 29. 04. 2017 to 15.06.2017	Euphrates Research Fellowship - To carryout research in the Universidad de Santiago de Compostela, Spain.
Dr. Sr. M.R. Basil Rose 03.06.2017	Bharat Vidya Shiromani Award by Indian Solidarity Council, New Delhi.
Dr. J. Vinoliya Josephine Mary 07.02.2018	Best Paper Presentation award International Conference cum Webinar on "Recent Innovations in Biosciences", Holy Cross College, Trichy.
Dr. Jeni C. Padua 08.03.2018	Rotary Women Award – Exemplary Service in Cancer Awareness in Kanyakumari Dist. Rotary Club, District – 3212.





Awards/ Prizes won by Scholars / Students

Bebina R. Cleetus & Fairy Leema Francis	II prize - 'Science Quiz' St. Xavier's College, Tirunelveli
T. Elaya Bharathi & C. Anitha	'Game of Thrones' Participated-Intercollegiate meet ECDYSIA'17, PG Dept. of Zoology, Fatima College, Madurai
T. Elaya Bharathi & C. Anitha	'Just a Minute' Participated- Intercollegiate meet ECDYSIA'17, PG Dept. of Zoology, Fatima College, Madurai
C. Anitha	III Prize - Poster presentation Conference on "Biotechnology for Sustainable Development"
T. Elaya Bharathi	II Prize - Paper presentation Intercollegiate meet ECDYSIA'17
F. Vargila	Special Category award - Paper presentation International Conference on "Frontiers in Analytical and Clinical Techniques (INFACT)." Inbiotics & Raja's Dental College.
RK. Rathika	Best Paper award - Paper presentation National Seminar on "Advances in Animal Science for Sustainable Development (AASSD-2018)". Department of Zoology, Jamal Mohamed College, Tiruchirappalli



Ph. D. Award: Ms. Jilian V. Paul received Ph. D. award on 11.12.2017 for her thesis entitled "Functional characterization and cytotoxic properties of a sialic acid specific lectin isolated from the coelomic fluid of starfish *Protoreaster linckii* (Blainville, 1830)" under the supervision of Dr. J. Vinoliya Josephine Mary.



Endowment prizes

Asiba Shibani, J. II B.Sc. Zoology	Sr. Regina's memorial Prize instituted by Dr. Vimala Vincent for all B.Sc. Zoology Student.
Heera, N.S.	Mr. & Mrs. Vincent Fernando's Endowment prize instituted by Mrs. Lucy Zephrin for the best out gone in B.Sc. Zoology.
Vargila, F.	Dr. Sr. Mercy's Endowment prize for the best out gone student in M.Phil Zoology.
Jency, J.	Dr.Mrs. Vimala Vincent's Endowment prize for the best out gone student in M.Sc. Zoology.
Bebina R. Cleetus	Dr. Sr. Mercy and Dr. Sr. Basil Rose's Endowment Prize for the socially committed student in M.Sc. Zoology.
Arockya Mary, M. III B.Sc. Zoology	Dr. Sr. Mercy and Dr. Sr. Basil Rose's Endowment Prize for the socially committed student in B.Sc. Zoology.
Sahaya Suji Princy, J.	Dr.Mrs. Y. Prema Latha's Endowment prize for the best outgone student in B.Sc. Zoology.
Sherin Mary Soman	Mrs. Dulsy's Endowment prize for the second best outgone student in M.Sc.Zoology.
Lylathul Aseena,S.K III B.Sc. Zoology	Dr.Mrs. Jayasuriya's Endowment prize for the student who secured highest mark in thecourse 'Evolution'.
Thanamalini, R. Research Scholar	Dr. Mrs. Thanalakshmi's Endowment prize for research scholar for maximum number of publications in Journals with impact factor.



Teacher's day celebration: On 5th September, Teacher's day was celebrated in the department, students entertain and show their gratitude. Dr. Sr. Basil Rose delivers the acceptance talk on behalf of all faculties.





Zoology Association

■ On 9.08.2017 **Dr. T. Citarasu** addresses the students on Natural Marine Products.

■ **Wild life week** was celebrated on 3rd and 4th October . Various competitions such as Intra departmental “**Bio-Quiz 2017**” on “Biodiversity” and Interdepartmental **Drawing & Verse writing Competition** on “**Role of Youth in Wild life Conservation**” was conducted by **Dr. J. Vinoliya Josephine Mary**.

■ On 28th February a career guidance program entitled “Career opportunity for Biology Students” was organized by the department. **Mr. Anto Xavier** (Manager), Turning Point, Nagercoil contributed his valuable ideas.



Endowment Lecture : **Dr. Sr. Mercy, Dr. Mrs. Vimala and Flordullee** endowment lecture.

On 6th October 2017 and 9th February 2018 endowment lectures on “Functional Restoration of Selected organs during the regeneration of Earthworms” and “ Targeting neuro-degenerative diseases through functionalized nanoparticles” by **Dr. Sudhakar Sivasubramaniam**, Professor & Head, Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli and **Dr. Bibin G. Anand**, Teaching Assistant, Department of Bioscience and Bioengineering, Indian Institute of Technology, Jodhpur, Rajasthan respectively.



Fairy Leema Francis,
Bebina R. Cleetus,
Henna Thomas, II M.Sc Zoology
- Placed through campus interview on 12.04.2018



Papers published in Journals

V. Ganapriya, A. Shyla Suganthi & A. Maharaja	Ultrastructure of the male accessory glands of Sesarmid crab <i>Parasesarma plicatum</i> (Latrielle, 1803), Journal of Microscopy and Ultrastructure, June 2017.
C. Nirmala, A. Nesam Preethi, J. Anne Jerlin, C. Rathi, F. Priyanka and A. Punitha	Antimicrobial activity of seaweeds from Kanyakumari Coast, Crossian Resonance, June 2017.
R.K. Rathika, J. Vinoliya & S. Mettilda	Biochemical and Antibacterial properties of the whole body extracts of centipede, <i>Rhysida nuda nuda.</i> , Crossian Resonance, June 2017.
F. Vargila, J. Vinoliya & S. Mettilda	Hemocyte morphology of centipede, <i>Rhysida longipes longipes.</i> Crossian Resonance, June 2017.
T. Elaya Bharathi & J. Vinoliya	Physico-chemical characterization of a hemolymph agglutinin from the marine crab, <i>Atergatis ocyroe</i> (Herbst, 1801), Crossian Resonance, June 2017.
C. Anitha & M.R. Basil Rose	Sugar specificity and Biomedical applications of a few Arthropodan lectins. Crossian Resonance, June 2017.
Raja Selvam, MR. Basil Rose & Jeni C. Padua	Antibacterial & Phytochemical analysis of <i>Ervatamia coronaria</i> and <i>Alternanthera sessilis</i> against harmful human pathogen, International Journal for Science and Advance Research in Technology, July 2017.
Jayashree K. V., J. Alice Prema , Radha R., Anjana, V. R., Sreeya G. Nair and Y. C. Viji	Effect Of Abiotic Factors on the Predatory Efficiency of the Common Carp, <i>Cyprinus carpio Communis.</i> World Journal of Pharmaceutical and Medical Research, September 2017.
T. ElayaBharathi, J. Vinoliya Josephine Mary & S. Mary Mettilda Bai	Partial purification and characterization of hemolymph lectin of marine crab, <i>Atergatis ocyroe</i> by adsorption on formalinised erythrocytes, International Journal of Biology Research, October 2017.
A. Shyla Suganthi & Jasmine, E.	Moult and Lunar periodicity in a male brachyuran crab, <i>Metopograpsus messor</i> (Forskål), Crossian Resonance, December 2017.
A. Arockya Jothi Blessy & M.R. Basil Rose	Physico-chemical characterization of a natural agglutinin from the digestive gland of the starfish, <i>Pentacaster mammilatus</i> (Audoin, 1826), Crossian Resonance, December 2017.
C. Anitha & MR. Basil Rose	Identification and Physico-chemical characterization of agglutinin from the flower extract of <i>Sansevieria roxburghiana</i> , Crossian Resonance, December 2017.
Thanamalini, R. & Shyla Suganthi, A	Morphometric analysis of the crab, <i>Atergatis integerrimus</i> (Lamarck, 1818) (Decapoda, Brachyura, Xanthidae), International Journal of Zoology & Applied Biosciences Feb., 2018.





Jilian V. Paul, J. Vinoliya & S. Mary Mettilda Bai	Antimicrobial Activity of Various Tissue Extracts and Coelomic Fluid of Starfish, <i>Protoreaster linckii</i> (Blainville, 1830), Journal of Global Trends in Pharmaceutical Sciences, Feb., 2018.
S. Nightingale, S. Mettilda & J. Vinoliya	Antimicrobial Activity of whole body Extracts of Slug, <i>Mariaella dussumieri</i> (Gray, 1855) against clinical pathogen. Journal of Global Trends in Pharmaceutical Sciences, Feb., 2018.
C. Anitha & Sr. MR Basil-Rose	Characterization of Naturally Occurring Agglutinin from the Midgut of the Rusty Millipede <i>Trigoniulus corallinus</i> Journal of Global Trends in Pharmaceutical Sciences, Feb., 2018.
Thanamalini, R. Shyla Suganthi, A & V. Ganapriya	Comparative ultrastructure on the sperm morphology of two grapsid crabs, International Journal of Life Sciences, March, 2018 (in press).
C. Anitha & Sr. M.R. Basil Rose	Antimicrobial Activity of the Hemolymph and Whole Body Extract of A Fresh Water Clam, <i>Villorita cyprinoides</i> (Gray, 1825), International Journal of Zoology and Applied Biosciences , April 2018.
C. Anitha, Sr. M.R. Basil Rose & P.T. Arockya Glory	Identification and Characterization of a Naturally occurring Agglutinin of the May Beetle, <i>Phyllophaga</i> Sp., International Journal of Zoology and Applied Biosciences, April 2018.

Papers published in Proceedings

C. Anitha & Sr. MR. Basil Rose	22 & 23.09.2017	Screening of midgut agglutinins in selected millipedes. Proceedings of Twelfth All India Conference of KASS-2017
T. Elaya Bharathi, Jilian V. Paul & J. Vinoliya Josephine Mary	22 & 23.09.2017	Antimicrobial activity of Tissue extracts of the Marine crab <i>Atergatis integerrimus</i> (Lamark, 1801), Proceedings of Twelfth All India Conference of KASS- 2017
T. Elaya Bharathi & J. Vinoliya Josephine Mary	23 & 24.11.2017	Antimicrobial activity of tissue extracts of the marine crab <i>Atergatis ocyroe</i> , Proceedings of International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
N. Latha & Sr. MR. Basil Rose	23 & 24.11.2017	Evaluation of the Antimicrobial activity in <i>Clitellaria ternata</i> Proceedings of International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI)
Blessy A.J. & Sr. MR. Basil Rose	23 & 24.11.2017	Antimicrobial activity in the different tissues of the Starfish, <i>Pentaceraster mammillatus</i> , Proceedings of International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
C. Anitha & Sr. MR. Basil Rose	23 & 24.11.2017	Antimicrobial activity of hemolymph and whole body extracts of freshwater bivalve, <i>Villorita cyprinoides</i> (Gray, 1825), Proceedings of International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).





Jilian V. Paul & J. Vinoliya	23 & 24.11.2017	Potent antimicrobial activity of coelomic fluid and lectin from <i>Protoreaster linkii</i> (Blainville, 1830), Proceedings of International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
S. Nightingale & J. Vinoliya	23 & 24.11.2017	Biomedical potential of <i>Ipomoea pes-cappae</i> flower in different solvent extracts - an <i>in vitro</i> study, Proceedings of International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
Johny Samuael, SI., J. Sahaya Arul & Jeni Chandar Padua	11 - 13.10.2017	Geospatial Flood risk analysis Tool Proceedings of The Springer “ International Conference on Remote sensing for Disaster Management – 2017 (ICRSDM-2017)”.
Latha N., M.R. Basil Rose & A. Punitha	24 & 25.01. 2018	Antimicrobial activity of Medicinal plant extracts against Human Pathogenic Microbes, Proceedings of the International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
F. Vargila & Priyatharshini, C.	24 & 25.01.2018	Biochemical & Phytochemical analysis of selected tubers of Kanyakumari District., Proceedings of the International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
I. Sakunthala, R. Thanamalini & A. Shyla Suganthi	24 & 25.01. 2018	Ultra structure and phylogeny of a Brachyuran spermatozoa Proceedings of the International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
C. Anitha & M.R. Basil Rose	24 & 25.01. 2018	Identification and Characterization of a naturally occurring agglutinin of the May Beetle, <i>Phyllophaga</i> Sp., Proceedings of the International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
S. Nightingale & J. Vinoliya	24 & 25.01. 2018	Partial Characterization of a natural agglutinin from the coelomic fluid of the starfish, <i>Pentaceraster affinis</i> (Muller & Troschel, 1842), Proceedings of the International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
Arokya Jothi Blessy & MR. Basil Rose	24 & 25.01. 2018	Partial Purification and Characterization of a lectin from the digestive gland of the starfish, <i>Pentaceraster mammillatus</i> , Proceedings of the International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
Vargila, F., Vinoliya, J. & Mettilda, S.	15.02.2018	Biomedical Application of N-Acetyl Glucosamine specific lectin of Centipede <i>Rhysida nuda nuda</i> , Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Rathika, R.K., Mettilda, S. & Vinoliya, J.	15.02.2018	Diversity of Butterflies in Holy Cross College Campus, Nagercoil, India from December 2016 to April 2017, Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Elaya Bharathi, T. & Vinoliya, J.	15.02.2018	Purification and Characterization of an O-Acetyl Sialic Acid specific lectin from the hemolymph of the marine crab, <i>Atergatis integerrimus</i> (Lamarck, 1818), Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.





Latha, N. & M.R. Basil Rose	15.02.2018	Evaluation of the antimicrobial activity of different solvent extracts of the medicinal plants, Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
C. Anitha & M.R. Basil Rose	15.02.2018	Purification, Characterization and antimicrobial activity of an N-Acetyl Neuraminic Acid specific lectin from the millipede <i>Trigoniulus corallines</i> , Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Dincia Rose, T., Jenisha, M.J. & Brisca Renuga, F.	15.02.2018	Antitermitic activities of <i>Thespesia populnea</i> Linn. Against Formosan Subterranean Termite <i>Coptotermes formosanus</i> Shiraki, Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
S. Nightingale & J. Vinoliya	15.02.2018	Characterization of Hemagglutinins in Hemolymph of Cone Snail <i>Telescopium telescopium</i> (Linnaeus, 1758), Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Arokya Jothi Blessy, A. & M.R. Basil Rose	15.02.2018	Physico-chemical Characterization of a Natural Agglutinin from the coelomic fluid of the starfish, <i>Pentaceraster mammillatus</i> (Audoin, 1826), Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
C. Anitha & M.R. Basil Rose	09 & 10.03.2018	Partial Purification, Characterization and Anti-microbial potential of a flower lectin isolated from <i>Sansevieria rozburghiana</i> , Proceedings of the National Conference on “Recent Trends and Prospectives in Biological and Environmental Sciences”.
N. Latha & MR. Basil Rose	09 & 10.03.2018	Antimicrobial potential of <i>Solanum xanthocarpum</i> and <i>Vernonia cinerea</i> , Proceedings of the National Conference on “Recent Trends and Prospectives in Biological and Environmental Sciences”.
F. Vargila & S. Mettilda	09 & 10.03.2018	Quantitative analysis of phytochemicals in few common tubers, Proceedings of the National Conference on “Recent Trends and Prospectives in Biological and Environmental Sciences”.
Elaya Bharathi, T. & J. Vinoliya	15 & 16.03.2018	Biological Role of the hemolymph lectin of marine crab <i>Atergatis integerrimus</i> (Lamarck, 1818), Abstract Book of the International Seminar on “Coastal and Marine Biodiversity and Conservation (ISCMBC – 2018).
Rajaselvam & Sr. MR. Basil Rose	15 & 16.03.2018	Hemagglutinin in the coelomic fluid of sea urchin <i>Tripneutes gratila</i> , Abstract Book of the International Seminar on “Coastal and Marine Biodiversity and Conservation (ISCMBC – 2018).





Paper presentation in Seminar/ Conference

i) Faculty

Jeni C. Padua	02.05.2017	"Research and Learning in India", Conference on "d'etudiantio".
Jeni C. Padua	24.05.2017	"Research: From Lab to Land, for a better global society", Conference de Professionale de Xenetica.
J. Vinoliya Josephine Mary	07.02.2018	"Partial Characterization of the hemolymph agglutinin of the Centipede <i>Rhysida nuda nuda</i> (Newport), International Conference cum Webinar on "Recent Innovations in Biosciences".

ii) Scholars / Students

C. Anitha	22 & 23.09.2017	Screening of midgut agglutinins in selected millipedes, Twelfth All India Conference of KASS – 2017.
T. Elaya Bharathi	22 & 23.09.2017	Antimicrobial activity of Tissue extracts of the Marine crab <i>Atergatis integerrimus</i> (Lamarck, 1801), Twelfth All India Conference of KASS- 2017.
C. Anitha	28.09.2017	Arthropod lectin and its anti-cancerous activity, Conference on "Cancer Biology".
T. Elaya Bharathi	10.10.2017	Biodiversity of Crabs of Kanyakumari District, Intercollegiate meet ECDYSIA'17.
T. Elaya Bharathi	10.10.2017	Antimicrobial activity of tissue extracts of the marine crab, <i>Atergatis ocyroe</i> , Intercollegiate meet ECDYSIA'17.
C. Anitha	10.10.2017	Diversity of Arthropods and its biomedical applications. Intercollegiate meet ECDYSIA'17.
C. Anitha	10.10.2017	Identification of agglutinins in Millipedes, Intercollegiate meet ECDYSIA'17.
Jilian V. Paul	23&24.11.2017	Potent antimicrobial activity of coelomic fluid and coelomic fluid lectin from starfish <i>Protoasterlinkii</i> (Blainville, 1830), International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
T. Elaya Bharathi	23&24.11.2017	Antimicrobial activity of tissue extracts of the marine crab <i>Atergatis ocyroe</i> , International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
C. Anitha	23&24.11.2017	Antimicrobial activity of hemolymph and whole body extracts of freshwater Bivalve, <i>Villorita cyprinoides</i> (Gray, 1825), International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
A. Arokiya Jothi Blessy	23&24.11.2017	Antimicrobial activity in the different tissues of the Starfish, <i>Pentacaster mammillatus</i> , International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
Nightingale Sheeba	23&24.11.2017	Biomedical potential of <i>Ipomoea pes-cappae</i> flower in different solvent extracts - an <i>in vitro</i> study, International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
N. Latha	23&24.11.2017	Evaluation of antimicrobial activity in <i>Clitoria ternatea</i> ,





		International Conference on Advances in Degenerative Diseases and Molecular Interventions (ADDMI).
R. Hebisha	11.01.2018	Bio-fuels, Founder's Day Programme, CMST, Rajakkamangalam MS. University.
J. Evelyn Priscilla	11.01.2018	Stem cell Bank, Founder's Day Programme, CMST, Rajakkamangalam MS. University.
C. Mary Jeenu Das	11.01.2018	Founder's Day Programme, CMST, Rajakkamangalam MS. University.
VJ. Jasmin Malar	11.01.2018	Stem cell Bank, Founder's Day Programme, CMST, Rajakkamangalam MS. University.
Ajantha	11.01.2018	Stem Cell Bank, Founder's Day Programme, CMST, Rajakkamangalam MS. University.
Sherine Michael	11.01.2018	Stem Cell Bank, Founder's Day Programme, CMST, Rajakkamangalam MS. University.
R. Thanamalani	24 & 25.01.2018	Ultra structure and phylogeny of a Brachyuran spermatozoa, International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
T. Elaya Bharathi	24 & 25.01.2018	Physico-chemical characterization of a natural agglutinin from the serum of a marine crab <i>Atergatis integerrimus</i> , International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
S. Nightingale Sheeba	24 & 25.01.2018	Partial Characterization of a natural agglutinin from the coelomic fluid of the Starfish <i>Pentacaster affinis</i> , International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
C. Anitha	24 & 25.01.2018	Identification & Characterization of a naturally occurring agglutinin of the may beetle, <i>Phyllophaga</i> Sp., International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
N. Latha	24 & 25.01.2018	Antimicrobial activity of medicinal plant extracts against human pathogenic microbes, International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
F. Vargila	24 & 25.01.2018	Biochemical & Phytochemical analysis of selected tubers of Kanyakumari District, International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
Arokya Jothi Blessy, A.	24 & 25.01.2018	Partial Purification and Characterization of a lectin from the digestive gland of the starfish, <i>Pentacaster mammillatus</i> , International Conference on frontiers in analytical and clinical techniques (INFACT-2018).
T. Elaya Bharathi	07.02.2018	Antimicrobial activity of Tissue extracts and <i>Atergatis integerrimus</i> , International Conference cum Webinar on "Recent Innovations in Biosciences".
S. Nightingale Sheeba	07.02.2018	Phytochemical analysis and Biomedical applications of <i>In vitro</i> study, International Conference cum Webinar on "Recent Innovations in Biosciences".
Vargila, F	15.02.2018	Biomedical Application of N-Acetyl Glucosamine specific lectin of Centipede <i>Rhysida nuda nuda</i> . Souvenir of National Seminar on "Advances in Animal Science for Sustainable Development (AASSD-2018)".
Rathika, R.K.	15.02.2018	Diversity of Butterflies in Holy Cross College Campus,





		Nagercoil, India from December 2016 to April 2017, Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Elaya Bharathi, T.	15.02.2018	Purification and Characterization of an O-Acetyl Sialic Acid specific lectin from the hemolymph of the marine crab, <i>Atergatis integerrimus</i> (Lamarck, 1818), Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Latha, N.	15.02.2018	Evaluation of the antimicrobial activity of different solvent extracts of the medicinal plants, Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
C. Anitha	15.02.2018	Purification, Characterization and antimicrobial activity of an N-Acetyl Neuraminic Acid specific lectin from the millipede <i>Trigoniulus corallines</i> , Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Jenisha, M.J.	15.02.2018	Antitermitic activities of <i>Thespesia populnea</i> Linn. Against Formosan Subterranean Termite <i>Coptotermes formosanus</i> Shiraki, Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
S. Nightingale Shheba	15.02.2018	Characterization of Hemagglutinins in Hemolymph of Cone Snail <i>Telescopium telescopium</i> (Linnaeus, 1758), Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
Arokya Jothi Blessy, A.	15.02.2018	Physico-chemical Characterization of a Natural Agglutinin from the coelomic fluid of the starfish, <i>Pentacaster mammillatus</i> (Audoin, 1826), Souvenir of National Seminar on “Advances in Animal Science for Sustainable Development (AASSD-2018)”.
C. Anitha	09 & 10.03.2018	Partial Purification, Characterization and Anti-microbial potential of a flower lectin isolated from <i>Sansevieria rozburchiana</i> , National Conference on “Recent Trends and Prospectives in Biological and Environmental Sciences”.
N. Latha	09 & 10.03.2018	Antimicrobial potential of <i>Solanum xanthocarpum</i> and <i>Vernonia cinerea</i> , National Conference on “Recent Trends and Prospectives in Biological and Environmental Sciences”.
F. Vargila	09 & 10.03.2018	Quantitative analysis of phytochemicals in few common tubers. National Conference on “Recent Trends and Prospectives in Biological and Environmental Sciences”.
T. Elaya Bharathi	15 & 16.03.2018	Biological Role of the hemolymph lectin of the marine crab <i>Atergatis integerrimus</i> Lamarck (1818), International Seminar on “Coastal and Marine Biodiversity and Conservation (ISCMBC – 2018).
Rajaselvam	15 & 16.03.2018	Hemagglutinin in the coelomic fluid of sea urchin <i>Tripneustes gratila</i> . International Seminar on “Coastal and Marine Biodiversity and Conservation (ISCMBC – 2018).

Seminar/ Conference / Workshop / Training Programme attended

	National Level	International Level	State Level	Total
Faculty	10	6	4	20
Student/ Scholar	16	6	5	27
Total	26	12	9	47





District Project - Cancer Awareness & Detection
A glimpse of our activities - all carried out by
Rtn. Jeni Padua



Dr. Jeni Chandar Padua is a world class researcher, environmentalist and social activist of Kanyakumari District. She works as Asst. Professor in the Department of Zoology, Holy Cross College, Nagercoil, Kanyakumari District. She dedicates her research to her District, Kanyakumari known as "Cancer Town" because of the high incidence of this disease. She engages herself in educating women on Cancer prevention, by giving awareness on the major risk factors of Cancer as an outcome of her research (Radial Prot Dosimetry 156 (1): 42-48 doi:10.1003/rpdinc035). She believes that research should not be confined to research centres or done for the sake of research publications, but rather be taken forth to the betterment of the public especially the Women and Children of the Society.

Her "Quit Plastics Campaigns" conducted among thousands of school students was a huge success when the students took oath to refuse plastic carry bags, plastic lunch boxes and became involved in educating their families on the hazardous biological effects of plastics. She also works towards Communal Peace and Harmony, through IWP and Thiruvural Peraval. Excelling men, this woman-researcher walked across 2486 hinterland hamlets of the 41 coastal villages and village panchayats of the District, to understand the cause of Cancer in the District. As a biologist, she has been formulating possible preventive measures for Cancer and started campaigning in the District. Her campaigns and awareness programs won her "The Kanyakumari District Level - Woman Achiever Award-2017" for Educational Research.

Her ardent desire to find a preventive medicine for Cancer, won her an invitation by the European Union, which awarded her the Euphrates research fellowship to conduct research

along with Spanish Scientists on xenografting of cancer cells, drug targeting, drug delivery in human cancer cells using nanocarriers, and the like, at the research centre of Universidad de Santiago de Compostela, Spain.

She has also been honored as the Visiting Researcher of the ZebraBiores Research Centre of Universidad de Santiago de Compostela, Spain. Her talks on All India Radio on Plastic Poisoning and the effects of Natural Environmental Influences on Cancer were extremely effective that they were repeatedly telecast on All India Radio, FM 101, and spread on social media for the benefit of the underprivileged people of the coast for whom she suggested ways to escape the perils of Cancer. Holding her position as the District Joint Secretary of Friends For Nature Society, Kanyakumari, she works in liaison with the Kanyakumari District administration and is constantly involved in Cancer Awareness Campaigns and Environmental Awareness Programs and engages herself in educating the women and children of the District by delivering lectures and presentations. Dr. Jeni Padua is also a member of International Women's 29's Peace Group (IWP), Korea, International Society for Zoological Sciences (ISZS), Beijing, International Society for Environment and Information Sciences, Canada, Team Member of ENO International, India and the Member of Rotary International District 3212. She loves nature and spends her time doing research, trekking and enjoying nature. She strongly believes that scientific research has to be taken forth to the women of the society who need to transform themselves so as to create socially committed citizens who would work as "Ambassadors of Societal Consciousness and Upliftment" - a Battalion of Soldiers who would fight towards a Better World, and a Better Global Society.



01.08.2017 – Featured in Trisea magazine for exemplary service in Cancer Awareness in the District.

Study Trips/Industrial Visits/Field visits

15.09.2017 to 19.09.2017: III UG & II PG Students along with Dr. C. Josephine Priyatharshini, Mrs. P. T. Arockya Glory, Mrs. Kodimalar & Mr. Paul Raj visited Mysore and Bangalore.



20.10.2017: I M. Sc. Students with Mrs. J. Alice Prema, Sr.MR. Basil Rose & Mrs. P.T. Arockya Glory visited Centre for Marine Fisheries & Research Institute, Rameswaram.





23.01.2018: III B.Sc. Students with Mrs. J. Alice Prema & Dr. S. Mary Mettilda Bai visited Konam Sericulture Centre.



27.01.2018: I B.Sc. Students went on a Biodiversity field trip to Trivandrum Zoological Park, Vizhingam (Marine Aquarium) with Mrs. J. Alice Prema & Dr. J. Vinoliya Josephine Mary.



Ecotourism: Faculty trip to Kallaru, Pecchiparai on October 28th 2017.





Staff as Resource persons

F. Brisca Renuga	20.09.2017	Entrepreneurship awareness camp - "Personality Development for Women Entrepreneur.
F. Brisca Renuga	21.09.2017	Entrepreneurship awareness camp - "Skill Development".
S. Mary Mettilda Bai	25.09.2017	International Peace Day
Jeni C. Padua	01.08.2017	"Prospects of learning in Abroad".
Jeni C. Padua	17.09.2017	"Cancer in Kanyakumari District."
Jeni C. Padua	24.09.2017	"Plastic Poisoning as a major hazard for diseases."
Jeni C. Padua		Environmental Influences for Cancer in Kanyakumari District.
Jeni Chandar Padua	25.09.2017	Guest of Honour and Resource Person – Eco Club Inauguration, Nesamony Memorial Christian College, Marthandam.
Jeni C. Padua	26.09.2017	Breast Cancer – Causes and Possible prevention
Jeni C. Padua	27.09.2017	Environment & Diseases.
J. Vinoliya Josephine Mary	19.10.2017	Dengue Awareness
A. Shyla Suganthi	25.10.2017	Dengue Awareness
F. Brisca Renuga	25.10.2017	Dengue Awareness
S. Mary Mettilda Bai	05.01.2018	"Biology of Sex"



Extension Activities

Demonstration of Vermicomposting to the Parents of our students on 23.09.2017.

Adopted Government Middle School,
Thammathu Konam

07.10.2017: Demonstration of Vermicomposting to the Students, Staff and the Parents of Govt. Middle School, ThammathuKonam.





02.03.2018: Donated water purifier to the adopted school - Govt. Middle School, ThammathuKonam

Exhibition on 10.2.2018: To the Students of the adapted School.

Joy of giving



07.10.2017: Gardening at Govt. Middle School,



07.10.2017 - Visited "Charles Home", a home for mentally retarded and orphans, Pampanvilai, Kanyakumari District.

Proficiency Prizes

I B.Sc. Zoology

I Prize - Tony Lesline, R.

NMEC

I Prize - Priyadharshini, H.

II B.Sc. Zoology

I Prize - Jovila, J.

Allied Zoology

I Prize - Bashidha Banu, S.

III B.Sc. Zoology

I Prize - Lylathul Aseena, S.K.

II Prize - Sr. Jeyabeula

I M.Sc. Zoology

I Prize - Nisha, R.

II M.Sc. Zoology

I Prize - Bebina R. Cleetus

II Prize - Fairy Leema Francis

100% Attendance

Aswini, R. III B.Sc. Zoology





Laurels won in Sports:

Game	Venue	Date	Award
Chess (Annie Antin Nisha, I B.Sc. Zoology)	M.S.U. Community College, Kadayanallur	23.08.2017 & 24.08.2017	I
Volley ball (R. Malar, I M.Sc., Zoology)	Womens' Christian College, Nagercoil	09.09.2017 to 11.09.2017	II
Badminton (Fairy Leema Francis, II M.Sc., Zoology)	Lekshmipuram College of Arts and Science	11.10.2017 to 12.10.2017	II
Volley ball (R. Malar, I M.Sc., Zoology)	State championship match at Chennai	10.12.2017 to 17.12.2017	-
Basket Ball (M. Serine Michael, I B.Sc., Zoology)	Rani Anna College for Women, Trirunelveli.	15.12.2017 & 16.12.2017	IV
Volley Ball R. Malar, R.K.Priyanka , R. Sahaya Priya , I M.Sc., Zoology	C.M. Trophy Match at Anna Stadium, Nagercoil	06.01.20 18	III

Eco-conscious activities: From 25.07.2017 to 25.10.2017 - III UG students collected 17½ kgs of use and throw plastic pens from each class room to make the campus free from plastic and was send for recycling.



Societal Conscious activities: Visited Ockhi affected area such as Thoothoor, MarthandamThurai, Neerodi and distributed bucket and grocery.





Book Review - 11.04.2018



Adieu! Dear Teachers...

*Great minds show the way but...
Beautiful hearts like you... inspire us to follow.*

*Your selfless service and phenomenal work
Have been illuminating footnotes for generations to come*

*We look up to you with a great sense of pride and respect
We have enjoyed your nestling and chiding*

*For many years you've devoted yourself to educating students
As the time now comes for reminiscing and relaxing
May the memories of your years in the classroom always go with you
May they remind you of students and colleagues you hold dear*

*It is now time to enter into the next stage of your life
Here's wishing you a happy retirement and many wonderful years!*



Editorial *board*

**Editors: Dr. S. Mary Mettilda Bai
Dr. F. Brisca Renuga**

Editorial team:
Mrs. J. Alice Prema
Mrs. Y. Mary Saroja
Dr. J. Vinoliya Josephine Mary
Dr. A. Shyla Suganthi
Mrs. P.T. Arockya Glory
Dr. Jeni Chandar Padua
Dr. C. Josephine Priyatharshini
Dr. A. Punitha

