### **INDIAN JOURNAL OF NATURAL SCIENCES (IJONS)**

**BIMONTHLY INTERNATIONAL JOURNAL** 

Editor-in-Chief Dr.S.Vijikumar

#### **Published by**

#### TAMILNADU SCIENTIFIC RESEARCH ORGANISATION

39,MURA BHAVAN,KOODAL NAGAR,RAJAGOPALAPURAM POST, PUDUKKOTTAI, TAMIL NADU, INDIA.

ijonstnsro@gmail.com,editorijons@gmail.com-www.tnsroindia.org.in

Editor-in-Chief, Editorial Board and Publisher take no responsibility for inaccurate, misleading data, opinion and statements appeared in the articles and advertisements published in this journal. It is the sole responsibility of the contributors and advertisers. No part of this journal can be reproduced without the written permission of the Editor-in-Chief who also holds the copyright © of the "Indian Journal of Natural Sciences (IJONS)".

## **Indian Journal of Natural Sciences (IJONS)**

# **Editorial Committee Members (ECM)**

	Dr.S.Vijikumar
	Director
Editor-in-Chief	TamilNadu Scientific Research Organisation
	Pudukkottai-622003, Tamil Nadu. India.
	Editorial Committee
	Prof. Dr.V.Ramaiyan Marine Biologist
Honorable Chief Advisor	Research Advisor
Horiorable Citiel Advisor	Sri Venkateswara College of Arts & Science.
	Peravoorani, Thanjavur. Tamil Nadu. India.
	Dr.C.Anandharamakrishnan
	Director,
Honorable Chief Advisor	Indian Institute of Food Processing Technology (IIFPT)
	Ministry of Food Processing Industries (MoFPI), Govt. of India
	Pudukkottai Road, Thanjavur - 613005, Tamil Nadu, India
Honorable Chief Advisor	Dr. B. Vaseeharan Professor and Head, Department of Animal Health and
Horiorable Citiel Advisor	Management, Alagappa University, Karaikudi – 630003
	Prof.Mahdi Vatan Parast
	Chancellor & Professor,
Honorable Chief Advisor	Islamic Azad University,
	Quchan Branch, Quchan-Khorasan Razavi- Iran.
Honorable Chief Advisor	Prof.Dr.Hamid Saremi
Horiorable Citiel Advisor	Vice- Chancellor,
	Islamic Azad University,
	Quchan branch, Quchan-Iran.
	Dr. Sr.D.Victoriya Amalorpava Mary, FBS
Honorable Chief Advisor	Principal, Bon Secours College for Women,
	Vilar bypass road, Thanjavur - 613 006. Tamilnadu, South India.
	Prof.Dr. B.A. ASBI Vice President Research,
Honorable Chief Advisor	Management & Science University(MSU),
	University drive off persiaran olahraga,
	40100 shah alam selangor , MALAYSIA.
	Dr. N. Jayabalan
Honorable Member	Professor & Head, Dept. of plant Science, School of life Sciences
	Bharathidasan University, Tiruchirappalli. Tamil Nadu. India.
	Dr. T.S. Saravanan  Professor of Piotochpology cum Possarch Co. ordinator
Honorable Member	Professor of Biotechnology cum Research Co-ordinator Dr.M.G.R Educational and Research Institute University
	Periyar E.V.R High Road, Maduravoyal, Chennai-600095.
	Dr.S.P.Subramaniyan
Honorable Member	Asst.Controller of Patents and Designs (Govt.of India)
	Patent Office,IPR Building,GST Road,Guindy,Chennai 600032

Honorable Member	Er. Abdul Samad. M. Kamdod Assistant Professor, Department of Civil Engineering Bharat Institute of Science & Technology for Women Mangalpally, Renga Reddy Dist. Andhra Pradesh, India
Honorable Member	Dr. Hina kousar Assistant Professor, Department of Environmental Sciences, Kuvempu University, Shankaraghatta, Shivamogga – 577 451, Karnataka ,India
Honorable Member	Mr.B.Rajesh Manager (Tech. Services Env.) Grass Roots Research & Creation India (P) Ltd Noida – 201301,Uttar Pradesh,India
Honorable Member	Mr. K.Ramanathan Head, Department of Bioinformatics, Thanthai Hans Roever College Perambalur, TamilNadu, India.
Honorable Member	Dr. K.Gurunathan Prof & Head, Department of Nano science & Technology, Alagappa University, Karaikudi, TamilNadu, India.
Honorable Member	Dr. Rajashekhar O, Patil Assistant Professor, Department of Environmental Management Sant Gadge Maharaj College of Commerce & Economics, Mumbai 400004, India
Honorable Member	Dr.M.Ravichandran Prof.& Head Department of Environmental Management Bharathidasan University, Tiruchirappalli. Tamil Nadu. India.
Honorable Member	<b>Dr.M.Krishnan</b> Prof.& Head, Department of Environmental Biotechnology Bharathidasan University, Tiruchirappalli. Tamil Nadu. India
Honorable Member	<b>Dr.K.Kumarasamy</b> Prof.& Head, Department of Geography Bharathidasan University, Tiruchirappalli. Tamil Nadu. India
Honorable Member	Dr.A.Sathya, Assistant professor – III, School of Civil Engineering, SASTRA University, Thanjavur – 613401, TamilNadu, India.
Honorable Member	Dr.G.G.Hammad Ahmad Shadab Senior Assistant Professor, Department of Zoology Aligarh Muslim University, Aligarh-202002, Uttar Pradesh
Honorable Member	<b>Dr.H.Syed Jahangir</b> Assistant Professor, P.G. and Research Department of Botany Jamal Mohamed College(Autonomous) Trichirappalli-620020, TamilNadu, India.

Honorable Member	Mrs.A.Indumathi Asst.Professor,Department of Biotechnology, Bon Secours College for Women,Vilar bypass road, Thanjavur Tamilnadu, South India
Honorable Member	Dr. P. Santhanam Assistant Professor, Department of Marine Science, School of Marine Sciences, Bharathidasan University, Tiruchirappalli. Tamil Nadu. India
Honorable Member	Dr.B.Parimala Devi Additional Director, Veeramani Mohana Centre for Quality Life Engineering Research, Periyar Maniyammai University, Vallam, Thanjavur, TN. India.
Honorable Member	Dr. M. Lekeshmanaswamy Associate professor PG and Research Department of Zoology Kongunadu Arts and Science College G.N. mills (PO), Coimbatore-641 029, TamilNadu, India.
Honorable Member	Dr. P.Udaya Kumar Principal D.K.T College of Education, 1/341, Near Amaravathipalayam, Peruntholuvu (PO), Tirupur - 641 665, TamilNadu, India.
Honorable Member	<b>Dr.Syed Mohamed</b> Asst. Prof. Dept. of Zoology,Jamal Mohamed College Tiruchirappalli, TamilNadu, India
Honorable Member	Dr. Komalavalli Narayanaswamy Associate Professor, PG and Research Department of Botany H.H. The Rajah's College (Autonomous) Pudukkottai – 622 001, Tamil Nadu, India.
Honorable Member	Mis.S.Muthu Bharathi Asst.Professor,Department of Chemistry, Bon Secours College for Women,Vilar bypass road, Thanjavur Tamilnadu, South India
Honorable Member	Mrs.Sujatha Ilangovan Assistant Professor, Department of Biochemistry Holy Cross College, Tiruchirapalli-620002. TamilNadu, India.
Honorable Member	Dr.C.Kathirvelan Assistant Professor, Department of Animal Nutrition Veterinary College and Research Institute (TANUVAS) Namakkal -637002. TamilNadu, India.
Honorable Member	Professor.G.Ganesan Professor, Department of Mathematics Adikavi Nannaya University,Rajahmundry-533105 Andhra Pradesh, India.

Honorable Member	Mis D.Kalpana Asst.Professor,Department of Chemistry, Bon Secours College for Women,Vilar bypass road, Thanjavur TamilNadu, South India
Honorable Member	Dr.C.Balusami Assistant Professor, Department of Livestock Production and Management College of Veterinary and Animal Sciences Pookode-673576.Kerala, India.
Honorable Member	Dr.P.Kavitha Assistant Professor, Department of Zoology and Biotechnology AVVM Sri Pushpam College (Autonomous) Poondi,Thanjavur, TamilNadu, India.
Honorable Member	<b>Dr.Vasudevan Ayyappan</b> Department of Biology, Delaware State University, Dover, Delaware - 19901
Honorable Member	Mrs.A.Amargeetha Asst.Professor,Department of Chemistry, Bon Secours College for Women,Vilar bypass road, Thanjavur TamilNadu, South India
Honorable Member	Mrs.N.Rajarajeswari Asst.Professor,Department of Physics, Bon Secours College for Women,Vilar bypass road, Thanjavur TamilNadu, South India
Honorable Member	Dr.V. Rajendran Dean i/c Vanavarayar Institute of Agriculture Manakkadavu – 642 103. Pollachi Taluk, TamilNadu,India.
Honorable Member	Dr.C.Thamaraiselvi Assistant Professor, Dept. of Biotechnology Mother Teresa Women's University Kodaikanal-624101,TamilNadu,India.
Honorable Member	<b>Dr. K.Madhava Chetty</b> Plant Taxonomist, Assistant Professor, Department of Botany, <i>SVUCS</i> , S.V. University, Tirupati-517 502, Andhra Pradesh, India.
Honorable Member	Dr.S.Ramesh Kumar Assistant Professor, Department of Horticulture, Vanavarayar Institute of Agriculture, Manakkadavu-642103,Pollachi,TamilNadu,India.
Honorable Member	Dr. S. Balasubramanian Assistant Professor Department of Mathematics, Government Arts College (A), Karur – 639 005, Tamilnadu, India.

Honorable Member	Dr.G. Rubalakshmi D/o V.P. Govindaraj, #3/41, Nanbargal Nagar,Muthukalipatty, Rasipuram TK, Namakkal DT-637401.Tamilnadu,India.
Honorable Member	Mr.Sridhar Ramachandran Assistant Professor, Department of Biological Science, Gojan College of Teacher Education, Chennai-600 052, TamilNadu, India
Honorable Member	Dr. H. Krishna Ram #11, 1st Main, Opp. to SBM, Gnanaganganagar,Bangalore- 560 056, Karnataka, India.
Honorable Member	Dr.S.Senthil Murugan Assistant Professor, Department of Animal Nutrition, College of Veterinary and Animal Sciences, Pookode, Wayanad, Kerala, India.
Honorable Member	R.Muthukrishnan Assistant Professor Department of Soil Science and Agricultural Chemistry Vanavarayar Institute of Agricultural Manakkadavu, Pollachi-642- 103, TamilNadu, India
Honorable Member	K.Ashokkumar Senior Research Fellow Dept of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbutore-3, TamilNadu, India
Honorable Member	Dr.Subbiah poopathi Scientist-F/Deputy-Director Vector control Research Centre, Medical complex, Indira Nagar,Pondicherry-605006,India
Honorable Member	Dr. Sivalingam Elayabalan Assistant professor 3/33,Eachampatti village Attur(Tk),Salem(Dt)-636107, TamilNadu, India
Honorable Member	Dr. Horne Iona Averal Associate professor of Head Holy cross college (Autonomous), Trichy. TamilNadu, India
Honorable Member	Dr.G.Singaravelu Professor & Head Department of Education Bharathiar University Coimbatore-46 TamilNadu, India
Honorable Member	Dr.Ga.Bakavathiappan Associate Professor in Zoology SBK College, Aruppukottai - 626 101, TamilNadu, India.

Honorable Member Head & Associate Professor in Chemistry Department of Chemistry Sisk College, Aruppukottal - 626 101, TamilNadu, India  Dr.M.Gopikannan Senior Research Fellow, 15-83 Paramathi Main Road, S.P.Pudhur, Namakkal(Dt)-637 001, TamilNadu, India  Dr.K.Samiayyan Dean Agricultural College and Research Institute, TNAU, Eachangkottal, Thanjavur-614902, T.N.India.  Dr.M.Vasanthy Assistant professor Periyar Illam, (upstairs), No.4, Vayalur Road, Kumaran Nagar, Ramalinga nagar south Extension, Trichy-620017, Tamil Nadu, India  Dr.N.Vijayakumar Assistant Professor Dept of Biochemistry & Biotechnology Annamalal University, Annamalainagar-608 002, Tamilnadu, India.  Dr. S. Umamaheswari Assistant Professor Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University Irruchirappalii - 620 024, Tamil Nadu  Dr. Jai Shanker Pillai H.P. H.D. Ponna swamy Pillai # 644, Ganesh Temple Street Hunsur taluk, Mysore district - 571105, Karnataka, India  Mr. Nesarajan. J Assistant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu, India  Dr. John Abraham  Honorable Member  Honorable Member  Honorable Member  Honorable Member  Assistant Professor, Department of L.P.M., College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. J. Jan Assistant Professor (Pant Pathology) Department of Crop Protection Tamith Rover Institute of Agriculture and Rural Development, Valikandapuram Post, Perambalur - 621115, Tamil Nadu.		
Honorable Member  Senior Research Fellow, 15-83 Paramathi Main Road, S.P. Pudhur, Namakkal(Dt)-637 001, TamiliNadu, India  Dr.K. Samiayyan  Dean Agricultural College and Research Institute, TNAU, Eachangkottai, Thanjavur-614902, T.N,India.  Dr.M. Vasanthy Assistant professor Perlyar Illam, (upstairs), No.4, Vayalur Road, Kumaran Nagar, Ramalinga nagar south Extension, Trichy-620017, Tamil Nadu, India  Dr.N. Vijayakumar Assistant Professor Dept.of Biochemistry & Biotechnology Annamalai University, Annamalainagar-608 002, Tamilnadu, India.  Dr. S. Umamaheswari Assistant Professor Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University Tiruchirappalli – 620 024, Tamil Nadu  Dr. Jai Shanker Pillai H.P. H.D. Ponna swamp Pillai #644, Ganesh Temple Street Hunsur taluk, Mysore district – 571105, Karnataka, India  Mr. Nesarajan. J Assitant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu, India  Dr. John Abraham Assistant Professor, Department of L.P.M.,College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head, Dept. of Oral Medicine and Radiology, Tamil Nadu Govt, Dental College and Hospital, Chennai -600003, Tamil Nadu, India  Dr. V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Head & Associate Professor in Chemistry Department of Chemistry
Honorable Member  Dean Agricultural College and Research Institute, TNAU, Eachangkottai, Thanjavur-614902, T.N,India.  Dr.M.Vasanthy Assistant professor Periyar Illam,(upstairs), No,4,Vayalur Road, Kumaran Nagar, Ramalinga nagar south Extension, Trichy-620017, Tamil Nadu, India  Dr.N.Vijayakumar Assistant Professor Dept. of Biochemistry & Biotechnology Annamalai University, Annamalainagar-608 002, Tamilnadu, India.  Dr. S. Umamaheswari Assistant Professor Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University Tiruchirappalli – 620 024, Tamil Nadu Dr. Jai Shanker Pillai H.P. H.D. Ponna swamy Pillai # 644, Ganesh Temple Street Hunsur taluk, Mysore district – 571105, Karnataka, India  Mr. Nesarajan. J Assitant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu. India  Dr. John Abraham Assistant Professor, Department of L.P.M., College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head, Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003, Tamil Nadu, India.  Dr. V. M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Senior Research Fellow, 15-B3 Paramathi Main Road,
Assistant professor Periyar Illam, (upstairs), No.4, Vayalur Road, Kumaran Nagar, Ramalinga nagar south Extension, Trichy-620017, Tamil Nadu, India  Dr.N.Vijayakumar Assistant Professor Dept of Biochemistry & Biotechnology Annamalai University, Annamalainagar-608 002, Tamilnadu, India.  Dr. S. Umamaheswari Assistant Professor Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University Tiruchirappalli - 620 024, Tamil Nadu  Dr. Jai Shanker Pillai H.P. H.D. Ponna swamy Pillai # 644, Ganesh Temple Street Hunsur taluk, Mysore district – 571105, Karnataka, India  Mr. Nesarajan, J Assitant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu. India  Dr. John Abraham Assistant Professor, Department of L.P.M., College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head, Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003, Tamil Nadu, India  Dr. V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Dean Agricultural College and Research Institute, TNAU,
Assistant Professor Dept.of Biochemistry & Biotechnology Annamalai University, Annamalainagar-608 002, Tamilnadu, India.  Dr. S. Umamaheswari Assistant Professor Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University Tiruchirappalli – 620 024, Tamil Nadu  Dr. Jai Shanker Pillai H.P. H.D. Ponna swamy Pillai # 644, Ganesh Temple Street Hunsur taluk, Mysore district – 571105, Karnataka, India  Mr. Nesarajan. J Assitant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu. India  Dr. John Abraham Assistant Professor, Department of L.P.M.,College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head, Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003, Tamil Nadu, India.  Dr.V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Assistant professor Periyar Illam,(upstairs), No,4,Vayalur Road, Kumaran Nagar, Ramalinga nagar south Extension,
Assistant Professor Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University Tiruchirappalli – 620 024, Tamil Nadu  Dr. Jai Shanker Pillai H.P. H.D. Ponna swamy Pillai # 644, Ganesh Temple Street Hunsur taluk, Mysore district – 571105, Karnataka, India  Mr. Nesarajan. J  Assitant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu. India  Dr. John Abraham  Honorable Member  Assistant Professor, Department of L.P.M., College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head, Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003, Tamil Nadu, India.  Dr.V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Assistant Professor Dept.of Biochemistry & Biotechnology Annamalai University, Annamalainagar-608 002,
Honorable Member  H.D. Ponna swamy Pillai # 644, Ganesh Temple Street Hunsur taluk, Mysore district – 571105, Karnataka, India  Mr. Nesarajan. J  Assitant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu. India  Dr. John Abraham  Assistant Professor, Department of L.P.M.,College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head,Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003,Tamil Nadu,India.  Dr.V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Assistant Professor Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University
Honorable Member  Assitant Professor, Department of Zoology, Bishop Heber College, Trichy-17, Tamil Nadu. India  Dr. John Abraham  Assistant Professor, Department of L.P.M.,College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head,Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003,Tamil Nadu,India.  Dr.V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	H.D. Ponna swamy Pillai # 644, Ganesh Temple Street Hunsur taluk, Mysore district – 571105,
Honorable Member  Assistant Professor, Department of L.P.M.,College of Veterinary and Animal Sciences Pookode, Wayanad. 673576, Kerala.  Dr. S. Jayachandran Professor & Head,Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003,Tamil Nadu,India.  Dr.V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Assitant Professor, Department of Zoology, Bishop Heber College,
Honorable Member  Professor & Head, Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai -600003, Tamil Nadu, India.  Dr.V.M. Srinivasan Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Assistant Professor, Department of L.P.M.,College of Veterinary and Animal Sciences
Honorable Member  Assistant Professor (Plant Pathology)  Department of Crop Protection  Thanthai Roever Institute of Agriculture and Rural Development,	Honorable Member	Professor &Head,Dept. of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital,
	Honorable Member	Assistant Professor (Plant Pathology) Department of Crop Protection Thanthai Roever Institute of Agriculture and Rural Development,

Honorable Member	Dr.Ranjith.D Assistant Professor, Department of Veterinary Pharmacology and Toxicology, College of Veterinary and Animal Sciences, Pookode, Wayanad – 673576. Kerala,India
Honorable Member	Daniel Jebaraj,M. C/o Joshuah No.14A, Thendral Nagar New Thillai Nagar, Vadavalli, Coimbatore-641041,TamilNadu,India
Honorable Member	<b>Dr.Sindhu. K</b> Veterinary Officer Department of AH and VS Karnataka, India.
Honorable Member	Dr.Rajesh R Young Scientist, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore 641 003, Tamil Nadu, India.
Honorable Member	Dr.Jaivel N Post Doctoral Fellow, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore - 641 003, Tamil Nadu, India.
Honorable Member	Dr.R.Prabhu Research Associate, NADP Cell,CARDS, TamilNadu Agricultural University, Coimbatore - 641 003,Tamil Nadu, India.
Honorable Member	Dr.M.Uma Gowri Research Associate, NADP Cell,CARDS, TamilNadu Agricultural University, Coimbatore - 641 003,Tamil Nadu, India.
Honorable Member	S.Jegan Karuppiah Assistant Professor, Department of Rural Development Science, Arul Anandar College, Karmathur - 625 514, Madurai. Tamilnadu, India
Honorable Member	Dr.Rina Poonia Associate Professor, Department of Physical Education, Faculty of Arts & Law, Manipal University, Jaipur, India.
Honorable Member	Dr.S.Ezhil Vendan Scientist Fellow, Food Protectants & Infestation Control Department, CSIR-Central Food Technological Research Institute, Mysore-570 020, Karnataka, India.

Honorable Member	Dr.K.Shameem Rani Associate Professor and Head, Dept. of Zoology,M.S.S Wakf Board College, Madurai-625020,TamilNadu,India.
Honorable Member	Dr.B.Nagarathnam No.2, New Agraharam, Erode-638001, TamilNadu,India.
Honorable Member	Dr.P.Balaji Assistant Professor (Agricultural and Rural Management), Centre of Excellence in Biofuels, Forest College and Research Institute, Tamil Nadu Agricultural University(TNAU), Mettupalayam- 641 301, Coimbatore Dt., Tamil Nadu.
Honorable Member	Dr.M.Shanthasheela Assistant Professor (Agricultural Extension), Department of Sericulture, Forest College and Research Institute, Tamil Nadu Agricultural University(TNAU), Mettupalayam- 641 301, Coimbatore Dt. Tamil Nadu.
Honorable Member	Dr. N. Balakrishnan Young Scientist, Department of Nano Science & Technology, Tamil Nadu Agricultural University, Coimbatore – 641003, TamilNadu,India.
Honorable Member	Dr.N.Raman Associate Professor, Department of Chemistry, VHNSN College, Virudhunagar-626 001, TamilNadu,India.
Honorable Member	M.Thenmozhi Assistant Professor (Agrl. Engg.), Imayam Institute of Agriculture and Technology, Kannanur, Trichy - 621206, TamilNadu,India.
Honorable Member	K.Kalidas Assistant Professor & Head, Dept. of Social Science, Vanavarayar Institute of Agriculture, Manakkadavu, Pollachi, TamilNadu,India.

Honorable Member	Dr.M.Kumar Assistant Professor(Horticulture), Vanavarayar Institute of Agriculture, Manakkadavu,Pollachi, Coimbatore-642103, TamilNadu,India.
Honorable Member	Dr.T.Pradeesh Kumar Assistant Professor (Agronomy), Vanavarayar Institute of Agriculture,TNAU,Pollachi, Coimbatore-642103,TamilNadu,India.
Honorable Member	Dr.M.R.Nandhakumar Assistant Professor (Agronomy), Kumaraguru Institute of Agriculture (Affiliated to TNAU), Appakoodal,Erode-638315, TamilNadu,India.
Honorable Member	Dr.R.Govindan Assistant Professor (Agronomy), Kumaraguru Institute of Agriculture (Affiliated to TNAU), Appakoodal,Erode-638315, TamilNadu,India.
Honorable Member	Dr.K.Vinoth Kumar Research Associate, Department of Agronomy, Agricultural College and Research Institute, TNAU, Madurai – 625104, TamilNadu,India.
Honorable Member	Dr.S.Sandhya Professor and Head of Department, Department of Pharmacognosy, St.James College of Pharmaceutical Sciences, Chalakkudy, Thrissur, Kerala, India.
Honorable Member	Dr.P.Anbarasan Assistant Professor (Agricultural Extension), Kumaraguru Institute of Agriculture, Tamil Nadu Agricultural University, Sakthi Nagar, Erode-638315, Tamil Nadu, India.
Honorable Member	Dr.N.Muthuselvan Principal, Saiva Bhanu Kshatriya College, Aruppukottai,Virudhunagar,TamilNadu,India.
Honorable Member	Dr.M.Rajasekar Research Associate, Precision Farming Development Center, Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore, TamilNadu,India.

Honorable Member	Dr.A.Dinakara Rao Associate Professor, Center for Bioinformatics, School of Life Sciences, Pondicherry university, Puducherry, India
Honorable Member	Dr.K.Sivakumar Associate Professor, Department of Botony,Annamalai University, Annamalai Nagar,TamilNadu,India
Honorable Member	Dr.S.Moghana Lavanya Assistant Professor, Department of Agricultural Economics, Agricultural College and Research Institute, TamilNadu Agricultural University, Madurai,TamilNadu,India.
Honorable Member	Dr.M.Biruntha Assistant Professor, Department of Animal Health and Management, Alagappa University, Karaikudi, Tamil Nadu, India
Honorable Member	Dr.K.Saravanan Assistant Professor ,PG & Research Dept. of Zoology, Nehru Memorial College (Autonomous), Puthanampatti,Tiruchirappalli TamilNadu,India.
Honorable Member	Dr.A.Kalyana Sundaram Assistant Professor(Entomology), Agricultural College and Research Institute, Tamil Nadu Agricultural University, Eachangkottai,Thanjavur,TamilNadu,India.
Honorable Member	Sirajuddin M.Horaginamani Principal, Sayyid Akbar Husayni Degree College of Arts,Commerce and Science,Kalaburagi,Karnataka,India.
Honorable Member	Dr.P.Ramachandran Director & Head, Trichy Institute of Regenerative Medicine, Thillai Nagar West,Trichy,TamilNadu,India.
Honorable Member	Dr.S.Lingathurai Assistant Professor, Department of Biotechnology, The Madura College, Madurai, TamilNadu,India.
Honorable Member	Dr.P.Manonmani Assistant Professor, Department of Life Sciences, Centre for Research and Development, PRIST University, Vallam, Thanjavur TamilNadu, India.

Honorable Member	Dr. Syed Abrar Research Associate, Department of P.G. Studies & Research in Applied Botany, Kuvempu University, Shivamogga, Karnataka, India.
Honorable Member	Dr.V.Violet Dhayabaran Associate Professor ,Department of Chemistry, Bishop Heber College (Autonomous), Puthur, Tiruchirappalli,TamilNadu,India.
Honorable Member	Dr.H.T.Raghavendra Gowda Haluvalli, Opposite Bus stand, Mallalur,Chikamagalore, Karnataka,India.
Honorable Member	Dr. Goverdhan Rathla K. S Assistant Professor, Department of Physics, Government First Grade College, Birur, Kadur Talluk, Chickmagalore District. Karnataka, India.
Honorable Member	Dr.Ananthnag B Lecturer, Department of Environmental Science, Kuvempu University,Shivamogga, Karnataka,India.
Honorable Member	Dr.M.Ramesh Associate Professor, Department of Biotechnology, Alagappa University, Karaikudi-630003, Sivagangai Dt, TamilNadu, India.
Honorable Member	Dr.S.Yamini Sudha Lakshmi Assistant Professor, Department of Medical Biochemistry, University of Madras, Taramani Campus, Chennai-600113, TamilNadu, India.
Honorable Member	Dr. SA. Ramyabharathi 253/ A37, TNHB Colony, Kollapatti, Animur (PO), Tiruchengode (TK), Namakkal District- 637214, TamilNadu, India.
Honorable Member	Dr.B.Kaleeswaran Assistant Professor, Dept. of Zoology & Biotechnology, A.V.V.M.Sri Pushpam College, Poondi, Thanjavur,T.N.India.
Honorable Member	Dr.A.Radha Assistant Professor, Dept. of Zoology Kunthavai Naacchiyar Govt Arts College for Women, Thanjavur-7, T.N. India.

Honorable Member	Dr.V.L.Madhu Prasad Directorate of Extension, University of Agricultural Science, Hebbal,Bangaluru-560024. Karnataka,India.
Honorable Member	Dr.T.Shanmugasundaram Research Associate, Department of Vegetable Crops, Horticultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore-641 003 Tamil Nadu,India.
Honorable Member	<b>Dr.V.Sakthirama</b> 3/8,P Block,Sree Dakshaa-Vhiridhaa Bharthiyar University Post,Coimbatore-641046 TamilNadu,India.
Honorable Member	<b>Dr.M.Kiruba</b> 261B/5 Anna Nagar, Kulithalai-639104, Karur(Dt), Tamil Nadu
Honorable Member	Dr.Karpagavalli B Assistant Professor (FSN), RVS Agricultural College, Usilampatti Village,Sengipatti Via, Thanjavur-613402,Tamil Nadu,India.
Honorable Member	Dr.D.Leninraja, Assistant Professor (Soil Science & Agricultural Chemistry) Agricultural College and Research Institute, Tamil Nadu Agricultural University, Kudumiyanmalai,Pudukottai- 622 104,T.N
Honorable Member	Dr.S.Maragatham, Associate Professor (Soil Science & Agricultural Chemistry) Agricultural College and Research Institute, Tamil Nadu Agricultural University, Kudumiyanmalai,Pudukottai- 622 104,T.N.
Honorable Member	Dr.D.Balamurugan Assistant Professor (Soil Science & Agricultural Chemistry) JKK Munirajah College of Agricultural Science, T. N. Palayam, Erode- 638 506,T.N
Honorable Member	Dr.N.Rajesh Nallaiah Assistant Professor (Agronomy) RVS Agricultural College, Usilampatti Village,Sengipatti via, Thanjavur-613402,Tamil Nadu,India.
Honorable Member	Dr.C.N.Hari Prasath Senior Research Fellow D3 Quarters, Forest College and Research Institute, Kothagiri Road, Mettupalayam (Tk), Coimbatore (Dt),Tamil Nadu – 641 301,India.

Honorable Member	Dr.Prantosh K. Paul Department of Computer & Information Science, Raiganj University, Raiganj, West Bengal-733 134, India.
Honorable Member	Dr. Ajay Anil Gurjar Professor & Dean Academics, Sipna College of Engineering & Technology, Amravati(M.S)- 444606,India.
Honorable Member	Dr.Mathews Plamoottil Asst. Professor in Zoology, Govt. College Chavara, Kollam, Kerala,India.
Honorable Member	Dr.Mrs.E.Emimal Victoria Assistant Professor, Department of Zoology Sri Meenakshi Govt. Arts College for Women, Madurai TamilNadu,India
Honorable Member	Dr.C.Kandeepan Asst.Professor and Head, PG Department of Zoology, A.P.A College of Arts and Culture, Palani-624601,Dindigul Dt.T.N.,India.
Honorable Member	Dr.V.E.Nethaji Mariappan Scientist"F" Centre for Remote Sensing and Geoinformatics Sathyabama University,Rajiv Gandhi Road, Sholinganallur,Chennai – 600119,Tamil Nadu
Honorable Member	Dr.K.Nagarajan Associate Professor, Department of Zoology VHN Senthikumara Nadar College, Virudhunagar,TamilNadu,India.
Honorable Member	Dr.D.Sivaraman Scientist-C Department of Pharmacology, Sathyabama University, Jeppiaar Nagar, Rajiv Gandhi road, Chennai- 600 119.
Honorable Member	Dr.N.Mahesh Assistant Professor – III Department of Chemistry & Biosciences SASTRA University Srinivasa Ramanujan Centre, Kumbakonam,Thanjavur Dist,Tamilnadu,INDIA
Honorable Member	Dr.Sumit Kumar Gupta Dean of Science, Department of Physics, Parishkar College of Global Excellence , Jaipur, Rajasthan,India

Honorable Member	Dr.Prakash.M  Professor, Department of Genetics and Plant Breeding, Faculty of Agriculture, Annamalai University, Annamalai nagar- 608002. Cuddalore District.
Honorable Member	Dr.B.A.Asbi Prof., Vice President Research, Management & Science University(MSU), University drive off persiaran olahraga, 40100 shah alam selangor. MALAYSIA.
Honorable Member	S.M.Prasad Assistant Professor, Department of Nutrition and Dietetics, Sadakathullah Appa College, Rahmath Nagar, Tirunel veli-627011. T.N.India
Honorable Member	K.Rajendran Research Associate Directorate of CARDS, TNAU,Coimbatore-3
Honorable Member	Dr.Kayalvizhi.K Senior Research Fellow Institute of Agriculture, Kumulur-621712,Lalgude(TK) Trichy. TamilNadu
Honorable Member	Dr.P.Jeyaseelan Associate Prof., Department of Agricultural Extension, Faculty of Agriculture, Annamalai University, Annamalai Nagar – 608 002 Cuddalore
Honorable Member	Dr.Suja George Principal Scientist, Department of Biotechnology, M.S. Swaminathan Research Foundation, Taramani, Chennai 600113.
Honorable Member	Dr.Neelesh Sharma ICAR-International Fellow & NAAS Associate Division of Veterinary Medicine, Faculty of Veterinary Science and Animal Husbandry, Sher-e-Kashmir University of Agri. Sciences & Technology, R.S. Pura, Jammu-181102 (J & K) INDIA.
Honorable Member	Dr.Tapas Ranjan Das Head (Acting), IARI Regional Station, Pusa Samastipur -848125,Bihar, India
Honorable Member	Dr.Muthuraman A., Assistant Professor, JSS College of Pharmacy, JSS University, Mysuru -570 015. Karnataka,India

Honorable Member	Dr.G.Rama Rao Principal Scientist &Head, Dept.of Crop Physiology, RARS Lam, Guntur-522034, ANGR Agricultural University, Andhra Pradesh,India.
Honorable Member	Dr.A.S.Kanagalakshmi Professor, Dept. of Civil Engineering, Panimalar Engineering College Chennai 600123. Tamilnadu,India.
Honorable Member	Dr.M.Ramarao Associate Professor, Department of Mechanical Engineering, Holy Mary Institute of Technology & Science Hyderabad, Telangana 501301, Telangana, India.
Honorable Member	Dr.Y.V. Krishna Reddy Department of Agricultural Engineering, Aditya Engineering College, Surampalem- 533437, East –Godavari, A.P., India
Honorable Member	Dr.Komal Kumar Javarappa Institute of Molecular Medicine Finland, University of Helsinki, Finland, Biomedicum Helsinki 2U, G315b, Finland- 00014.
Honorable Member	Dr.Easwari.S Asst.Professor, J.K.K. Munirajah College of Agricultural Science, T.N.Palayam, Erode Dist.,TamilNadu, India.
Honorable Member	Dr.Manigopa Chakraborty Chief Scientist cum University Professor Department of Genetics & Plant Breeding, Birsa Agricultural University, Kanke, Ranchi, Jharkhand – 834006., India.
Honorable Member	Dr.Arvind Prasad Dwivedi Lecturer, Department of Chemistry, Govt. Sanjay Gandhi Smriti College, Sidhi, Madhya Pradesh, India.
Honorable Member	Dr.M.N.Harisha Guest Lecturer, Department of Wildlife and Management, Kuvempu University, Jnanasahyadri, Shankaraghatta - 577451. Shimoga
Honorable Member	Dr.R.Rajkumar Senior Scientist, Village Resource Centre M S Swaminathan Research Foundation Pudukkottai,TamilNadu,India.
Honorable Member	Dr.Vidyalakshmi G M Division of Veterinary Physiology , CSM Lab, ICAR- IVRI, Izatnagar, Bareilly, Uttar Pradesh – 243 122. India.

Honorable Member	Dr.N.Shruthi Division of Animal Biochemistry, ICAR- IVRI, Izatnagar, Bareilly, Uttar Pradesh – 243 122. India.
Honorable Member	Dr.S.Deepa PGT Biology, G.K.Shetty Vivekananda Vidyalaya Junior College, Ambattur, Chennai – 600053. Tamil Nadu, India
Honorable Member	Dr.A.Suganya Research Scholar, Department of Agricultural Science, Tamil Nadu Agricultural University, Coimbatore
Honorable Member	Dr. N. Jeyapandiyan Research Associate, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore.
Honorable Member	Dr.R.Selvaraj Associate Professor, Department of Veterinary Physiology, Centre for Laboratory Animal Technology & Research (CPCSEA approved), Sathyabama University, Chennai – 600 119.
Honorable Member	Dr.V.Karthika Senior Research Fellow, Department of Environmental Science, Water Technology Centre, Tamil Nadu Agricultural University, Coimbatore – 641 003.
Honorable Member	Dr.M.Karthikeyan Assistant Professor (Plant Pathology) Department of Vegetable Crops ,HC&RI Tamil Nadu Agricultural University ,Coimbatore TamilNadu,India
Honorable Member	Dr.K.Rajendran, Research Associate, Directorate of CARDS, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu,India.
Honorable Member	Dr. V. Janahiraman Assistant Professor ( Agricultural Microbiology) Krishna College of Agriculture and Technology, Srirengapuram -625532, Usilampatti, Madurai-Dt Affiliated by Tamil Nadu Agricultural University. Tamil Nadu, India.
Honorable Member	Dr.A.Mahadevan Assistant Professor, Dept. of Horticulture, Krishna College of Agriculture and Technology, Srirengapuram -625532, Usilampatti, Madurai-Dt. Tamil Nadu, India

Honorable Member	Dr.A.Manikandan Principal, Muthayammal Memorial College of Arts and Science, Rasipuram, Namakkal Dist – 637408. Tamil Nadu, India.
Honorable Member	Vijaya Bhaskara Reddy.MUTHA Asst. Prof.Faculty of Public Health, St Theresa International College, 1 Moo 6 Rangsit-Nakhon Nayok Road (Klong 14), Bungsan,Ongkharak – 26120 Nakhon Nayok, Thailand.
Honorable Member	<b>Dr. R.Mary Suja</b> Director, Williams Research Centre, Nagarcoil – 1 Kanyakumari Dist, Tamil Nadu, India
Honorable Member	Dr. P. Chandramani Professor, (Agricultural Entomology), Agricultural College and Research Institute, Tamil Nadu Agricultural University Kudumiyanmalai – 622 104. Pudukkottai Dist., Tamil Nadu, India
Honorable Member	Dr. Hasan S.A. Jawad Animal Production Department, Agricultural Faculty, University of Baghdad, Baghdad,Iraq
Honorable Member	Dr. S. Suganya Kanna Assistant Professor, (Agricultural Entomology), Agricultural College and Research Institute, Tamil Nadu Agricultural University. Kudumiyanmalai – 622 104. Pudukkottai Dist., Tamil Nadu, India
Honorable Member	Dr. D. Balasankar Horticulture Officer, Farmer Training Centre, O/o Joint Director of Horticulture, Udhagamandalam -643001. The Nilgiris, Tamil Nadu, India.
Honorable Member	Dr. Ali Abdel-Hadi Mahoud Alsudani Assistant Professor in College of Science Biology Department, University of Al-Qadisiyah, Iraq.
Honorable Member	Dr. M. Manikandan Senior Research Fellow, Tamil Nadu Agricultural University Coimbatore – 641003. Tamil Nadu, India.

Honorable Member	Neeta Raghuveer Assistant Professor, National College Autonomous, Basavanagudi, Bengaluru Karnataka,India
Honorable Member	Dr. Salam Hussein Ewaid Shatra Technical Institute Southern Technical University, Iraq.
Honorable Member	Dr.S.Prema Associate Professor of Computer Science K.S.Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637 215, Tamilnadu, India
Honorable Member	Dr.S.Sasikala Associate Professor, Department of Computer Applications, Hindusthan College of Arts and Science, Coimbatore - 641 028, Tamilnadu, India.
Honorable Member	<b>Dr. Ghaidaa Raheem Lateef Al-Awsi</b> Al-Mustaqbal University College, Babylon,Iraq.
Honorable Member	Dr.C.Ravinder Singh Head, PG and Research Department of Botany, Vivekanandha College of Arts and Sciences for Women, Elayampalayam- 637 205, Tiruchengode, Namakkal, Tamil Nadu, India.
Honorable Member	Dr. S. Thenmozhi Assistant Professor (SS & AC) Soil Fertility and Irrigation Water Management Agricultural College and Research Institute, Kudumiyanmalai - 622 104, Pudukkottai – District, Tamil Nadu,India
Honorable Member	Dr. Salwan Ali Abed Department of Environment College of Science University of Al-Qadisiyah, Iraq.
Honorable Member	Dr.G.Rajaraman Assistant Professor & Coordinator School of Agricultural and Processing Sciences Kalasalingam Academy of Research and Education Krishnankoil-626126, Tamilnadu. India.
Honorable Member	Dr.S.Alagumanian Head & Assistant Professor, PG &Research Dept. of Botany H.H. The Rajash's Collage, Pudukkottai, Tamilnadu, India
Honorable Member	Dr. Faiza Kadhim Emran Department of Biology, College of Science, University of Baghdad, Baghdad, Iraq.

Honorable Member	<b>Dr.N.Vasanthakumar</b> Librarian, The American College, Madurai – 625 002, Tamilnadu, India
Honorable Member	Dr.Nagubudi. Varadarajulu Naidu Director of Research, Acharya N.G Ranga Agricultural University, Administrative Office, RARS, Lam, Guntur -522034 Andhra Pradesh, India.
Honorable Member	Dr. Ahmed Mahmood Shukur AL-Nedawi Assistant Professor, Animal Resource Department, Faculty of Agriculture, University of Baghdad, Baghdad, Iraq
Honorable Member	Dr.Thirumal Kumar D Assistant Professor(Jr) Department of Integrative Biology, School of Bio Sciences and Technology Vellore Institute of Technology Vellore – 632014, Tamilnadu, India
Honorable Member	<b>Dr.R.Jayapandi</b> Assistant Professor, Department of Bio Chemistry, The American College, Madurai – 625 002 Tamilnadu, India
Honorable Member	Dr.C.Ravindran Assistant Professor (Horticulture) Department of Fruit Crops Horticulture College and Research Institute Periyakulam – 625 604, Theni District, Tamilnadu, India.
Honorable Member	<b>Wejdan Thamir Mahdi</b> University of Qadisiyah,Iraq
Honorable Member	Dr.K.F.Bharati Assistant Professor, Department of Computer Science and Engineering, JNTUA College of Engineering, Ananthapuramu - 515002, Andhra Pradesh, India.
Honorable Member	Dr.Huda Falah Hasan Radi Alqaraghuli Assistant Professor, College of Veterinary Medicine, University of Baghdad, Baghdad, Iraq.
Honorable Member	Dr.S.V.Sai Prasad Principal Scientist & Head ICAR-IARI, Regional Station, Near Agriculture College, Indore – 452 001, Madhya Pradesh, India
Honorable Member	Dr. Intedhar Abbas Marhoon Biology Department, Faculty of Science, University of Al-Qadisiyah, Iraq
Honorable Member	Dr.Omkar Prasad Baidya Assistant Professor, Department of Physiology, ESI-PGIMSR and ESIC Medical College, Joka, Kolkata, West Bengal, India

Honorable Member	Dr.Reem Zuhair Shaker Abdul Rahman Shanshal Assistant Professor in Life Sciences, College of Education for Girls, University of Mosul, Iraq.
Honorable Member	Dr.V.Kavitha Associate Professor, PG and research Department of Computer Application, Hindusthan College of Arts and Science, Coimbatore -28, Tamilnadu, India
Honorable Member	Dr. Preethi Balasundaram Post-Doctoral Fellow, Wieden Group Alberta RNA Research & Training Institute Department of Chemistry and Biochemistry University of Lethbridge, 4401 University Drive Lethbridge, Alberta, Canada T1K 3M4
Honorable Member	Dr. Vikas Sharma Associate Professor/Sr. Scientist (Agronomy) Regional Agricultural Research Station SKUAST-JAMMU, Tandwal-Rajouri, Teh. And District Rajouri, State Jammu and Kashmir, India
Honorable Member	Dr.C.Vijai Assistant Professor, Department of Commerce, St.Peter's Institute of Higher Education and Research, Avadi, Chennai-600 054, Tamil Nadu, India
Honorable Member	Dr. Gopal Muthu Scientist -'C' DHR-Model Rural Health Research Unit ICMR-National Institute of Epidemiology Government of India, Primary Health Centre Campus Kallur-627 010, Tirunelveli District, Tamil Nadu, India
Honorable Member	Dr.N.Revathy Associate Professor, PG and research Department of Computer Application, Hindusthan College of Arts and Science, Coimbatore -28, Tamilnadu, India
Honorable Member	Dr.M.Ananthi Teaching Assistant, Directorate of Planning and Monitoring, Tamil Nadu Agricultural University, Coimbatore – 03, Tamilnadu, India.
Honorable Member	Dr.Pushpa S Murthy Senior Scientist, Department of Spice and Flavor Science AcSIR Associate Professor (Biological Sciences), CSIR - Central Food Technological Research Inst. MYSURU, Karnataka, INDIA
Honorable Member	CH.V.Satyanarayanaraju Scientist, Research Centre Imarat, DRDO Hyderabad, Telangana, India

Honorable Member	Dr. Vickram A S Associate Professor, Department of Biotechnology Saveetha School of Engineering Saveetha Institute for Medical and Technical Sciences Chennai, Tamilnadu, India
Honorable Member	G.Menaka Assistant Professor, Computer Science Cum Deputy Controller of Examinations Vivekanandha College Of Arts & Sciences For Women (Autonomous), Elayampalayam, Tiruchengode, Namakkal (Dist.), TamilNadu, India
Honorable Member	Dr. Karthikeyan Rajamani Senior Research Scientist (Biomarker) ICMR Centre for Advanced study in Air pollution, Department of Environmental Health Engineering, Sri Ramachandra Institute of Higher Education and Research, Porur-600116, Chennai, TamilNadu, India
Honorable Member	Dr. P.Yasodha Assistant Professor (Agrl. Entomology) Anbil Dharmalingam Agricultural College & Research Institute, Tamil Nadu Agricultural University, Navalur Kuttapattu 620 027, Tiruchirappalli, Tamil Nadu, India.
Honorable Member	Dr. SAIKAT SEN Associate Professor Faculty of Pharmaceutical Sciences Assam down town University, Panikhaiti, Guwahati, Assam - 781026, India
Honorable Member	Dr.E.Selvarajan Research Assistant Professor Department of Genetic Engineering School of Bioengineering SRM Institute of Science and Technology Kattankulathur-603203, Chennai, Tamilnadu, India
Honorable Member	Dr.V.Shanmuga Sundaram Assistant Professor & Head Department of Statistics Mahendra Arts & Science College (Autonomous) Kalippatti, Namakkal-637501. Tamilnadu, India.
Honorable Member	Dr. J. Rajangam  Professor and Head, Department of Fruit Crops,  HC & RI, Periyakulam, Tamilnadu, India
Honorable Member	Dr.R.R.Saravanakumar Librarian & Head Department of Library and Information Science Sadakathullah Appa College (Autonomous) Rahmath Nagar, Tirunelveli, Tamilnadu, India

Honorable Member	Dr. Shivendu Ranjan Senior Research Associate Faculty of Engineering & Built Environment University of Johannesburg, Johannesburg (Auckland Park Kingsway Campus) South Africa
Honorable Member	Dr.Nagubudi.Varadarajulu Naidu Director of Research, Acharya N.G Ranga Agricultural University, Administrative Office, RARS, Lam, Guntur -522034, Andhra Pradesh, India
Honorable Member	Dr.I.Muthuvel Associate Professor (Horticulture), Department of Fruit Crops, Horticultural College and Research Institute, Periyakulam – 625 604, Theni Dist. Tamil Nadu, India
Honorable Member	Subburaj. M Deputy Director Food Safety and Standards Authority of India Ministry of Health and Family welfare, Govt. of India Benfish Tower, 31 GN Block, Sector V, Salt lake city Kolkata -700091, India
Honorable Member	Dr.Bhagyalakshmi Rajaram Associate Professor, Department of Management Studies, PSNA College of Engineering & Technology, Dindigul, TamilNadu, India
Honorable Member	Dr.S.Annapoorani Assistant Professor in Biotechnology, Dr.Umayal Ramanathan College for Women Karaikudi, Sivaganga (Dt), TamilNadu, India
Honorable Member	Dr Bhasker Sharma Homoeopathy Doctor Sharma Homoeopathy Chikitsalya and Research Center Itwa Bazaar, Dist-Siddharth Nagar, Pin-272192 Uttar Pradesh, India
Honorable Member	Dr.R.Parimalan Scientist (Agrl. Biotech) & Hon. Faculty (QAAFI, UQ), Division of Genomic Resources, ICAR-National Bureau of Plant Genetic Resources, PUSA Campus, New Delhi-110012
Honorable Member	Dr.P.Sivakumar Assistant Professor (Biotechnology) Agricultural College and Research Institute Tamil Nadu Agricultural University, Eachangkottai, Thanjavur, Tamil Nadu, India

## **Indian Journal of Natural Sciences (IJONS)**

 Volume X (10)
 June 2020

 CODEN: IJONS (60) (2020)
 ISSUE 60
 ISSN: 0976 - 0997

S. No.	CONTENTS	Page No.
3. NO.	Editorial	Page No.
387	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly Ethyl Urethane composite S.Naik and Subhraraj Panda	21571-21574
388	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyoxy Ethylene Composite Asha Rani Dalai and Subhraraj Panda	21575-21579
389	In silico Analysis of Mechanical Properties of Acrylic Acid and Acrylonitrile Composite Jayakishan Meher and nd Subhraraj Panda	21580-21583
390	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyoxymethylene Composite S.Sadangi and and Subhraraj Panda	21584-21587
391	In silico Analysis of Gas Permeability Properties of Polyacrylic Acid and Polyacrylonitrile Composite Sujata Acharya, A.Saraf and N.Nayak	21588-21592
392	Investigation of Impedance and Modulus Study of Copper doped $SrTiO_3$ Lelin Champati, R. Patra, M. Sahu, Srikanta Moharana and Santosh K Satpathy	21593-21596
393	In silico Analysis of Polyvinyl Alcohol and Polyoxy Ethylene Compatibility in a Blend Sujata charya, A.Saraf, D. Bhattacharyay and Padmaja Patnaik	21597-21602
394	In silico Analysis of Polyvinyl Alcohol and Polyoxymethylene Compatibility in a Blend Monalisa Joshi, D. Bhattacharyay and Padmaja Patnaik	21603-21607
395	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Urea Composite Monalisa Joshi, Padmaja Patnaik and D.Bhattacharyay	21608-21611
396	Synthesis and Characterization of Copper Doped Perovskite Materials Rashmiranjan Patra, A. U. Naik, Srikanta Moharana and Santosh K Satpathy	21612-21615
397	In silico Analysis of Polyvinyl Alcohol and Polyethyl Urethane Compatibility in a Blend Rashmi Ranjan Bag, Sourav Kumar Bishi, M.K. Sahu, S.K. Satpathy and D. Bhattacharyay	21616-21620
398	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyoxyethylene Composite Bibhuti Bhusan Sahu, S.K. Satpathy and D. Bhattacharyay	21621-21624
399	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyethylur ethane Composite Jayakishan Meher, S. Behera and D. Bhattacharyay	21625-21628

	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol	
400	and Polyurea Composite S.Sadangi, S. Behera and D.Bhattacharyay	21629-21632
	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyethyl Urethane Composite	
401	Jagruti Meher, Roji Hota, Sasmita Kumari Pradhan, D.Bhattacharyay and Subrata Sarangi	21633-21637
402	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyoxymethylene Composite Alisha Rath, Asha Rani Dalai, Tapan Dash and D.Bhattacharyay	21638-21642
403	In silico Analysis of Thermal and Dielectric Properties of Polyacrylic Acid and Polyacrylonitrile Composite Bibhuti Bhusan Sahu, Tapan Dash and D. Bhattacharyay	21643-21646
404	In silico Analysis of Mechanical Properties of Polyacrylic Acid and Polyacrylochloride Composite S. Nayak and D.Bhattacharyay	21647-21651
405	In silico Analysis of Polyacrylic Acid and Polybutylene isopthalate Compatibility in a Blend S. Nayak and D.Bhattacharyay	21652-21657
406	<i>In silico</i> Analysis of Polyacrylic Acid and Poly12a D Glucose Compatibility in a Blend S. Nayak and D.Bhattacharya	21658-21662
407	In silico Analysis of Polyacrylic Acid and Polyacrylochloride Compatibility in a Blend S. Nayak and D.Bhattacharyay	21663-21668
408	In silico Analysis of Polyacrylic Acid and Polyacrylonitrile Compatibility in a Blend S. Nayak and D.Bhattacharyay	21669-21674
409	In silico Analysis of Polyacrylic Acid and Polymethylacrylate Compatibility in a Blend S. Nayak and D.Bhattacharyay	21675-21680
410	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyvinyl Chloride Composite Yogabramha Bhoi, S. Nayak, Pratap K. Chhotaray and D. Bhattacharyay	21681-21685
411	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly-1,2- $\alpha$ -D-glucose Usharani Padhan, S. Nayak, Pratap K. Chhotaray and D. Bhattacharyay	21686-21690
412	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyvinyl Chloride Composite Gagan Mandika, S. Nayak, Pratap K. Chhotaray and D. Bhattacharyay	21691-21695
413	In silico Analysis of Gas Permeability Properties of Poly (Biphenyl Dimethylcarbonate) and Polyether Sulfone (PES) Blend Membrane Subhashree Padhi, S.Nayak, S. Sahu and D.Bhattacharyay	21696-21700
414	In silico Analysis of Gas Permeability Properties of Polybiphenyldimethyl Carbonate and Polydimethylsiloxane (PDMS) Composite Soujanya Yeddu, S.Nayak, S. Sahu and D.Bhattacharyay	21701-21705

415	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly-1, 2-@-D-Galactose Composite R Anusya, S. Sahu, G.K.Mahato and D. Bhattacharyay	21706-21710
416	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly-1, 2-  D-Glucose Composite  Khagapati Sahu, S.Nayak, A.K.Sahoo and D.Bhattacharyay	21711-21715
417	In silico Analysis of Polyvinyl Alcohol and Polyvinylchloride Compatibility in a Blend Sourav Pujhari, S. Nayak, A.K.Sahoo and D. Bhattacharyay	21716-21721
418	In silico Analysis of Polyacrylic Acid and Polyurea Compatibility in a Blend Sujit Karuan, S. Nayak, A.K.Sahoo and D. Bhattacharyay	21722-21726
419	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyvinyl Chloride Composite Biswajit Padhan, S. Nayak, G.K.Mahato and D. Bhattacharyay	21727-21730
420	In silico Blend Compatibility Investigation of Poly (Biphenyl Dimethyl Carbonate) and Poly (Ether Sulfone) Ch Usha, S. Nayak, Mohammed Siddique and D. Bhattacharyay	21731-21736
421	In silico Analysis of Polyvinyl Alcohol Acid and Poly-1, 2-α-D-Glucose Compatibility in a Blend Preeti Kumari Batlabhadra, S. Nayak, G.K.Mahato and D. Bhattacharyay	21737-21742
422	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly-1, 2-α-D-Glucose Composite Chandan Saraf, S.Nayak, Mohammed Siddique, C.R.Routray and D.Bhattacharyay	21743-21746
423	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly-1, $2-\alpha$ -D-Galactose Composite Hemanta Rana, Mohammed Siddique, C.R.Routray and D. Bhattacharyay	21747-21750
424	In silico Analysis of Polyvinyl Alcohol Acid and Poly-1, $2-\alpha$ -D-Galactose Compatibility in a Blend Alok Budhia, Mohammed Siddique, S. K. Sahoo and D. Bhattacharyay	21751-21755
425	In silico Blend Compatibility Investigation of Poly (Biphenyl Dimethyl Carbonate) and Polydimethyl Siloxane Rasmita Sahoo, S. Nayak, Mohammed Siddique, S. K. Sahoo and D. Bhattacharyay	21756-21761
426	In silico Analysis of Polyacrylic Acid and Poly-1,3- $\alpha$ -D-Galactose compatibility in a Blend Ashutosh Naik, Mohammed Siddique, S. K. Sahoo and D.Bhattacharyay	21762-21766
427	In silico Analysis of Thermal and Dielectric Properties of Polyacrylic Acid and Polyacrylochloride Composite S.Nayak, Mohammed Siddique and Bhattacharyay	21767-21770
428	In silico Analysis of Gas Permeability Properties of Polyacrylic Acid and Polyurea Composite Ranjan Kumar Padhan, S.Nayak, D.Bhattacharyay	21771-21774
429	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyether sulfone Composite Nimroj Khosla, S.Nayak and D.Bhattacharyay	21775-21779

430	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyether Sulfone Composite Archana Sahu, S.Nayak and D.Bhattacharyay	21780-21784
431	In silico Analysis of Mechanical Properties of Polyacrylic Acid and Poly Urea Composite Subhalaxmi Kuanr, S.Nayak and D.Bhattacharyay	21785-21788
432	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyether Sulfone Composite T Jaganatha Patro, S.Nayak and D.Bhattacharyay	21789-21792
433	In silico Analysis of Thermal and Dielectric Properties of Polyacrylic Acid and Polyurea Composite Kartik Prasad Rajguru, S.Nayak and D.Bhattacharyay	21793-21796
434	In silico Analysis of Polyvinyl Alcohol and Poly Ethylene Terephthalate Compatibility in Blend Biswaranjan Mishra, S. Nayak and D.Bhattacharyay	21797-21801
435	In silico Analysis of Polyacrylic Acid and Poly (Biphenyl Dimethyl Carbonate) Compatibility in a Blend Lohita Karuan, S.Nayak and D.Bhattacharyay	21802-21807
436	In silico Analysis of Polyvinyl Alcohol Acid and Polybenzamide Compatibility in a Blend Truptimayee Behera, S. Nayak and D. Bhattacharyay	21808-21813
437	In silico Analysis of Polyvinyl Alcohol Acid and Polybutylene Isopthalate Compatibility in a Blend Sangram Keshari Biswal and D. Bhattacharyay	21814-21818
438	In silico Analysis of Polyvinyl Alcohol Acid and Poly (Ether Sulfone) Compatibility in a Blend Baibhab Kumar Patra, S. Nayak and D. Bhattacharyay	21819-21824
439	In silico Analysis of Polyacrylic Acid and Poly Oxyetylene Comptibility in a Blend Keshaba Karuan, S. Nayak and D. Bhattacharyay	21825-21830
440	In silico Analysis of Polyacrylic Acid and Poly-1,2- $\alpha$ -D-Galactose Compatibility in a Blend Anisetti Siva sankar, S.Nayak and D.Bhattacharyay	21831-21835
441	In silico Analysis of Polyacrylic Acid and Poly-1,2-β-D-Galactose Compatibility in a Blend Lipan Kumar Nayak, S.Nayak and D.Bhattacharyay	21836-21840
442	In silico Analysis of Polyvinyl Alcohol and Poly (Biphenyl Dimethyl Carbonate) Compatibility in a Blend Manoranjan Badajena, Sangamkeshari Biswal and D.Bhattacharyay	21841-21845
443	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polybutyleneisopthalate Composite Sangram Keshari Biswal and D.Bhattacharyay	21846-21849
444	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly (Butylene Isophthalate) Composite Sangram Keshari Biswal and D.Bhattacharyay	21850-21853
445	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polybutyleneisopthalate composite Sangram Keshari Biswal, S. Nayak and D.Bhattacharyay	21854-21858

446	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly (Biphenyl Dimethyl Carbonate) Composite Manoanjan Badajena, Sangram Keshari Biswal and D.Bhattacharyay	21859-21863
447	In silico Analysis of Mechanical Properties of Polyvinayl Alcohol and Polyethylene Terephthalate Anil Kummar Choudhury, S.Nayak and D.Bhattacharyay	21864-21868
448	In silico Analysis of Gas Permeability Properties of Poly (Biphenyl Dimethylcarbonate) and Polydimethylsiloxane (PDMS) Composite Manjesh Deep, S.Nayak and D.Bhattacharyay	21869-21873
449	In silico Analysis of Gas Permeability Properties of Polyacrylic Acid and Poly (1, 2- $\alpha$ -D-Galactose) Composite Ritusmita Panigrahi, S.Nayak and D.Bhattacharyay	21874-21877
450	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly-1,2-β-D Galactose Composite Laxmi Kanta Jena, S.Nayak and D.Bhattacharyay	21878-21882
451	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly-1, $3-\alpha$ -D-Galactose Composite Biswaranjan Sahu, S.Nayak and D.Bhattacharyay	21883-21886
452	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyabenzamide Composite Ghanashyama Sabar, S.Nayak and D.Bhattacharyay	21887-21890
453	In Silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly (Biphenyl Dimethyl Carbonate) Composite Manoranjan Badajena, Sangramkeshari Biswal and D.Bhattacharyay	21891-21895
454	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly Ethylene Terephthalate Composite Swagatika Batria, S.Nayak and D.Bhattacharyay	21896-21900
455	In silico Analysis of Mechanical Properties of Polyacrylic Acid and Polyoxyethylene Composite Mahendra Mishra, S.Nayak and D.Bhattacharyay	21901-21905
456	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly-1, 2- $\alpha$ -D-Galactose Composite Mohammed Siddique, C.R.Routray and D. Bhattacharyay	21906-21909
457	In silico Analysis of Mechanical Properties of Polyacrylic Acid and Poly (1, 2- $\alpha$ -D-Galactose) Composite Rasmita Mallick, S. Nayak and D. Bhattacharyay	21910-21913
458	In silico Analysis of Mechanical Properties of Polybiphenyl Dimethyl Carbonate (PC) and Polyether Sulfone Composite Siba Prasad Panda, S.Nayak and D.Bhattacharyay	21914-21918
459	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polybenzamide Composite Hrushikesh Padhi, S.Nayak and D.Bhattacharyay	21919-21922
460	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly-1,2- β-D Galactose Composite Abinash Padhan, S.Nayak and D.Bhattacharyay	21923-21926
461	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly-1,3- $\alpha$ -D-Galactose Rosy Kumari Saraka, S.Nayak and D.Bhattacharyay	21927-21931

462	<i>In silico</i> Analysis of Thermal and Dielectric Properties of Poly Acrylic Acid and Polyoxyethylene Composite Thala Padma Swain, S.Nayak and D.Bhattacharyay	21932-21935
463	In silico Analysis of Gas Permeability Properties of Poly Acrylic Acid and Polyoxyethylene Composite Bharat Bhusan Sandha, S. Nayak and D.Bhattacharyay	21936-21940
464	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyethylene Terephthalate Composite Samuyel Limma, S.Nayak and D.Bhattacharyay	21941-21945
465	In silico Analysis of Thermal and Dielectric Properties of Poly (Biphenyl Dimethyl Carbonate) and Polydimethylsiloxane Composite Ananya Parichha, S. Nayak and D. Bhattacharyay	21946-21949
466	In silico Analysis of Thermal and Dielectric Properties of Polyacrylic Acid and Poly (1, 2- $\alpha$ -D-Galactose) Composite Srinayan Jena, S. Nayak and D. Bhattacharyay	21950-21953
467	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly (Biphenyl Dimethyl Carbonate) Composite Manoranjan Badajena, Sangramkeshari Biswal and D.Bhattacharyay	21954-21957
468	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polybenzamide Composite Ipsita Khadanga, S.Nayak and D.Bhattacharyay	21958-21961
469	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly-1,2- $\beta$ -D Galactose Composite Rajat Kumar Sahu, S.Nayak and D.Bhattacharyay	21962-21965
470	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly-1,3- $\alpha$ -D-Galactose Composite Duryodhan Sahu, S.Nayak and D.Bhattacharyay	21966-21969
471	In silico Analysis of Thermal and Dielectric Properties of Polybiphenyl Dimethyl Carbonate and Polyether Sulfone Composite Amrit Priyadarshan Padhy, S.Nayak and D.Bhattacharyay	21970-21973
472	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Clc1nc(Cl)nc(n1)N2CCCc3cccc23 (SMILES) Manju Palei	21974-21975
473	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Nc1cc(CCC(=O)O)ccc1O (SMILES) Prativa Satpathy	21976-21977
474	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CN(C)C[C@H](O)COCc1occc1 (SMILES) Sujata Acharya	21978-21979
475	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=O)c1cc2CCCc2c(O)c1O (SMILES) Asha rani Dalai	21980-21981
476	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[C@H]1C[C@H](CC(C)(C)C1)OC=O (SMILES) Tikina Mishra	21982-21983
477	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[C@@H]1CC(C)(C)N(CCO)c2cc(C)ccc12 (SMILES) Satyabrata Palei	21984-21985

478	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CON1[C@@H]2CCCC[C@@H]2N(OC)C(=O)C1=O (SMILES) S. Naik	21986-21987
479	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC1(C)N(O)[C@H](NC1=S)c2cccc2 (SMILES)  Monalisa Joshi	21988-21989
480	Deactivation of 6VWW Enzyme of Corona by Pharmacophore NNC(=0)C(=0)NC1CCCCC1 (SMILES) Lokanath Meher	21990-21991
481	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(=O)CNC(C)(C)C (SMILES) Ramesh Sahu	21992-21993
482	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COC(=O)CS[C@H](C)CC(=O)OC (SMILES) Debajani Tripathy	21994-21995
483	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COC(=O)[C@H]1SCC(=O)[C@H]1C(=O)OC (SMILES) B. Barik	21996-21997
484	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Cc1ccc(C)n1CC2CCNCC2 (SMILES) T. Paramanik	21998-21999
485	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Oc1cc2CCN=Cc2cc1O (SMILES) G. Mishra	22000-22001
486	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(=O)C(=O)N1CCC(CC1)NC(=O)C2CCCC2 (SMILES)  Jyoti Rath	22002-22003
487	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[N+](C)(C)CC(=O)c1ccc2OCCOc2c1 (SMILES) Namita Panda	22004-22005
488	Deactivation of 6VWW Enzyme of Corona by Pharmacophore NN1C=Cc2cccc2C1=N (SMILES) M. K. Sahu	22006-22007
489	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC1(C)SC(C)(C)N(C=O)[C@H]1C(=O)O (SMILES) P. Meher	22008-22009
490	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCC(=O)Oc1sc(NCCc2cccc2)[n+](C)c1C (SMILES)  C. Tripathy	22010-22011
491	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Cc1ccc(O)c(c1)C(=O)NO (SMILES)  D. Tripaty	22012-22013
492	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCc1c(C(=O)OC)c2cc(O)ccc2n1Cc3ccccc3 (SMILES) R. Mishra	22014-22015
493	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(=0)Cc1c(C)[nH]c2ccc(cc12)C(C)C (SMILES)  R. Mishra	22016-22017

494	Deactivation of 6VWW Enzyme of Corona by Pharmacophore O=C1CCCCN1SSN2CCCCCC2=O (SMILES) R. Mishra	22018-22019
495	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[C@H](SCS[C@H](C)C(=O)O)C(=O)O (SMILES) R. Mishra	22020-22021
496	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CSC[C@H](O)CN1N=C(O)C(=C(CI)C1=O)CI (SMILES) R. Mishra	22022-22023
497	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)(C)c1cc2C(=O)CC(C)(C)Oc2c(O)c1O (SMILES) R. Mishra	22024-22025
498	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)c1cc(SC#N)c(C)cc1O (SMILES) R. Mishra	22026-22027
499	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(=0)C(N(C)C)C(=0)OCC (SMILES) R. Mishra	22028-22029
500	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Cc1cc(C)c(CC(=O)O)c(C)c1 (SMILES) R. Mishra	22030-22031
501	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Cc1ccc(cc1)S(=O)NC(=O)NN2CCCCCC2 (SMILES) R. Mishra	22032-22033
502	Deactivation of 6VWW enzyme of corona by Pharmacophore OC(=0)[C@@H]1CS[C@@H](N1)c2ccc(cc2)[C@@H]3N[C@@H](CS3)C(=0)O (SMILES) R. Mishra	22034-22035
503	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CN1C(=O)O[C@H](C1=O)c2ccccc2 (SMILES) R. Mishra	22036-22037
504	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Cn1cnc(C(=O)O)c1C(=O)O (SMILES) R. Mishra	22038-22039
505	Deactivation of 6VWW Enzyme of Corona by Pharmacophore $CC(C)(C)\setminus C(=C\setminus C(C)(C))\setminus [O-]$ (SMILES) Nibedita Nayak	22040-22041
506	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Cc1cc(C[NH+]2CCOCC2)c(C)cc1O (SMILES) Nibedita Nayak	22042-22043
507	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(=O)[C@@H]1C[NH2+]CCC1=O (SMILES) Nibedita Nayak	22044-22045
508	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[NH2+]CC(=O)c1ccc(O)c(O)c1 (SMILES) R. Mishra and Nibedita Nayak	22046-22047

509	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(=0)[C@H]1CC[N@@H+](Cc2cccc2)CC1=O (SMILES) Nibedita Nayak	22048-22049
510	Deactivation of 6VWW Enzyme of Corona by Pharmacophore [O-]C(=O)C(=O)Cc1ccccc1 (SMILES)  Nibedita Nayak	22050-22051
511	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[C@@H]([C@H](O)c1ccccc1)[NH+](C)C (SMILES)  Nibedita Nayak	22052-22053
512	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Oc1cc([O-])nc2cccc12 (SMILES) Subrata Sarangi	22054-22055
513	Deactivation of 6VWW Enzyme of Corona by Pharmacophore OC(=O)C[NH2+]Cc1ccccc1 (SMILES) Subrata Sarangi	22056-22057
514	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC1(C)CC(CC(C)(N1O)OC(=O)c2cccc2 (SMILES) Subrata Sarangi	22058-22059
515	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)(C)[C@H](NC=O)C(=O)O (SMILES) Sbrata Sarangi	22060-22061
516	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COC(=O)[C@H](CC(=O)O)C(C)C (SMILES) Subrata Sarangi	22062-22063
517	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[NH+]1CCN(Cc2cccc2)CC1 (SMILES) SubrataSarangi	22064-22065
518	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)[C@@H]1CC[C@@H](C)C[C@H]1OC(=O)C(O)O (SMILES) R. Mishra	22066-22067
519	Deactivation of 6VWW Enzyme of Corona by Pharmacophore $CC[N+](CC)(CC)S(=O)(=O)[N-]C(=O)OC$ (SMILES) R. Mishra	22068-22069
520	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CN(C)CCN(Cc1ccccc1)c2ccccn2 (SMILES) R. Mishra	22070-22071
521	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=O)Nc1ccc(cc1)S(=O)(=O)NC2(CCCC2)C(=O)O (SMILES) R. Mishra	22072-22073
522	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Nc1ccc2Cc3ccc(N)cc3S(=O)(=O)c2c1 (SMILES) R. Mishra	22074-22075
523	Deactivation of 6VWW Enzyme of Corona by Pharmacophore OC(=O)CCc1ncccn1 (SMILES) R. Mishra	22076-22077
524	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=O)NC(NC(=O)C)C(=O)c1ccccc1 (SMILES) R. Mishra	22078-22079

525	Deactivation of 6VWW Enzyme of Corona by Pharmacophe OC(=O)CCC(=O)N(Nc1ccccc1)c2ccccc2 (SMILES) R. Mishra	22080-22081
526	Deactivation of 6VWW Enzyme of Corona by Pharmacopho Cc1oc(C[N+](C)(C)C)cc1 (SMILES) R. Mishra	22082-22083
527	Deactivation of 6VWW Enzyme of Corona by Pharmacophe CCOC(CN(C(C)C)C(C)C)OCC (SMILES) R. Mishra	22084-22085
528	Deactivation of 6VWW Enzyme of Corona by Pharmacopho CN(C)CCS[C@H](CO)c1ccccc1 (SMILES) R. Mishra	22086-22087
529	Deactivation of 6VWW Enzyme of Corona by Pharmacopho CC1(C)OC(=O)C[C@H]1C(=O)O (SMILES) R. Mishra	22088-22089
530	Deactivation of 6VWW Enzyme of Corona by Pharmacopho CCNC(=S)SCCC(=O)O (SMILES) R. Mishra	ore 22090-22091
531	Deactivation of 6VWW Enzyme of Corona by Pharmacopho CC(C)COC(=O)OCC(C)C (SMILES) R. Mishra	22092-22093
532	Deactivation of 6VWW Enzyme of Corona by Pharmacophe CCN(CC)Cc1cc(N)ccc1O (SMILES) R. Mishra	22094-22095
533	Deactivation of 6VWW Enzyme of Corona by Pharmacopho C[N+](C)(C)Cc1c[nH]c2ccccc12 (SMILES) R. Mishra	22096-22097
534	Deactivation of 6VWW Enzyme of Corona by Pharmacopho CC(C)(C)[C@H](O)C(=O)C(C)(C)C (SMILES) R. Mishra	22098-22099
535	Deactivation of 6VWW Enzyme of Corona by Pharmacophe COC(=O)[C@](C)(N)Cc1ccc(O)cc1 (SMILES) R. Mishra	22100-22101
536	Deactivation of 6VWW Enzyme of Corona by Pharmacopho CC(C)C(=0)OC[C@H](C)c1ccccc1 (SMILES) R. Mishra	ore 22102-22103
537	Deactivation of 6VWW Enzyme of Corona by Pharmacopho OC(=0)CCCc1ccc(cc1)C(=0)c2cccc2C(=0)O (SMILES) R. Mishra	22104-22105
538	Deactivation of 6VWW Enzyme of Corona by Pharmacophe CCOC(=O)[C@](C)(OC(=O)C)C(=O)C (SMILES) R. Mishra	ore 22106-22107
539	Deactivation of 6VWW Enzyme of Corona by Pharmacophe CC(=O)OCCc1scnc1C (SMILES) R. Mishra	22108-22109
540	Deactivation of 6VWW Enzyme of Corona by Pharmacophe CCOC(=N)c1ccc(O)cc1 (SMILES) R. Mishra	ore 22110-22111

541	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CN1CCCN2CCCN=C12 (SMILES) R. Mishra	22112-22113
542	Deactivation of 6VWW Enzyme of Corona by Pharmacophore O=C1N[C@H](CO1)c2cccc2 (SMILES) R. Mishra	22114-22115
543	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=0)NC1=NC(=0)NC=C1 (SMILES) R. Mishra	22116-22117
544	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CN(C)Cc1oc(CO)cc1 (SMILES) Manju Palei	22118-22119
545	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=O)O[C@@H]1CS[C@H](O1)C(=O)O (SMILES) Prativa Satpathy	22120-22121
546	Deactivation of 6VWW Enzyme of Corona by Pharmacophore NS(=O)(=O)c1cc(C(=O)O)c(NCc2ccccc2)cc1Cl (SMILES) Sujata Acharya	22122-22123
547	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COc1cc2C[NH2+][C@@H](Cc2cc1OC)C(=O)O (SMILES) Asha rani Dalai	22124-22125
548	Deactivation of 6VWW Enzyme of Corona by Pharmacophore $CC(=0)CCc1c(C)c(OC(=0)C)c(C)c(C)c1OC(=0)C$ (SMILES) Tikin Mishra	22126-22127
549	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)C1=CC(=O)Oc2c3CCCN4CCCc(cc12)c34 (SMILES) Satyabrata Palei	22128-22129
550	Deactivation of 6VWW enzyme of corona by pharmacophore COC(=O)N1CCC[C@H]1C(O)(c2ccccc2)c3ccccc3 (SMILES) S. Naik	22130-22131
551	Deactivation of 6VWW Enzyme of Corona by Pharmacophore OC(=O)c1[nH]c(C(=O)O)c2OCCOc12 (SMILES) Monalisa Joshi	22132-22133
552	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=O)Oc1ccc2ccc[n+](C)c2c1 (SMILES) Lokanath Meher	22134-22135
553	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COc1ccc(C[C@@H]2NC[C@@H](O)[C@@H]2OC(=O)C)cc1 (SMILES) Ramesh Sahu	22136-22137
554	Deactivation of 6VWW Enzyme of Corona by Pharmacophore ONS(=O)(=O)c1ccccc1 (SMILES) Debajani Tripathy	22138-22139
555	Deactivation of 6VWW Enzyme of Corona by Pharmacophore OC[C@@H](O)COc1ccc(Cc2ccc(OC[C@H](O)CO)cc2)cc1 (SMILES) B. Barik	22140-22141
556	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=0)C1=C([O-])C=C(C)OC1=O (SMILES) T. Paramanik	22142-22143

557	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(OCC)n1ccnc1 (SMILES) G. Mishra	22144-22145
558	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COc1cc(cc(OC)c1O)C(=O)C (SMILES)  Jyoti Rath	22146-22147
559	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC1(C)O[C@@H](CC(=O)O)C(=O)O1 (SMILES)  Namita Panda	22148-22149
560	Deactivation of 6VWW Enzyme of Corona by Pharmacophore OC[C@H](Cc1cccc(O)c1)[C@H](CO)Cc2cccc(O)c2 (SMILES) M. K. Sahu	22150-22151
561	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC1=CC(=O)Oc2cc(OC(=O)c3ccc(NC(=N)N)cc3)ccc12 (SMILES) P. Meher	22152-22153
562	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)[C@H]1CC[C@H](C)C[C@@H]1OCC(=O)O (SMILES) C. Tripathy	22154-22155
563	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCN1C=C(C(=O)[O-])C(=O)c2ccc(C)nc12 (SMILES) D. Tripaty	22156-22157
564	Deactivation of 6VWW Enzyme of COrona by Pharmacophore N[C@@H](CSc1nccs1)C(=O)O (SMILES) R. Mishra	22158-22159
565	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Nc1ccc(cc1)S(=O)(=O)[N-]c2nccs2 (SMILES) R. Mishra	22160-22161
566	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CN1C(=O)N=C([O-])c2c1ncn2C (SMILES) R. Mishra	22162-22163
567	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COc1ccc2C(=CC(=O)Oc2c1)CC(=O)ON3C(=O)CCC3=O (SMILES) R. Mishra	22164-22165
568	Deactivation of 6VWW Enzyme of Corona by Pharmacophore $CC1(C)CC(=O)C(=[N+]=[N-])C(=O)C1$ (SMILES) R. Mishra	22166-22167
569	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)CNC(=O)N1CCNC1=O (SMILES) R. Mishra	22168-22169
570	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCC(=C1C(=O)CC(CC1=O)C(=O)[O-])[O-] (SMILES) R. Mishra	22170-22171
571	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COc1ncnc(NS(=O)(=O)c2ccc(N)cc2)c1OC (SMILES) R. Mishra	22172-22173
572	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(=0)[C@@H]1C(=0)OC(=CC1=0)C (SMILES) R. Mishra	22174-22175

573	Deactivation of 6VWW Enzyme of Corona by Pharmacop Oc1ccc(O)c(Cc2nc3ccccc3s2)c1 (SMILES) R. Mishra	22176-22177
574	Deactivation of 6VWW Enzyme of Corona by Pharmacop CC[C@H](C)NC(=0)c1ccccc1C (SMILES)  R. Mishra	22178-22179
575	Deactivation of 6VWW Enzyme of Corona by Pharmacop COC(=O)CCC1=NNC(=O)NC1=O (SMILES) R. Mishra	ohore 22180-22181
576	Deactivation of 6VWW Enzyme of Corona by Pharmacop CC(C)OC(=O)[C@H](C)NC1=NNC(=S)NC1=O (SMILES) R. Mishra	ohore 22182-22183
577	Deactivation of 6VWW Enzyme of Corona by Pharmacop CC(C)CCOC(=0)[C@H](C)SC1=NNC(=0)NC1=O (SMILES) R. Mishra	ohore 22184-22185
578	Deactivation of 6VWW Enzyme of Corona by Pharmacop C[C@H]1CCCC[C@@]12NC(=O)NC2=O (SMILES) R. Mishra	ohore 22186-22187
579	Deactivation of 6VWW enzyme of corona by pharmacop CN1C(=O)N(C)c2ncn(Cc3ncc[nH]3)c2C1=O (SMILES) R. Mishra	22188-22189
580	Deactivation of 6VWW Enzyme of Corona by Pharmacop COC(=O)CCC1=NO[C@H](C[C@@H]2CC(=NO2)CCC(=O)OC)C1 (SMILES R. Mishra	
581	Deactivation of 6VWW Enzyme of Corona by Pharmacop CCOC(=O)CCc1ccc(\C=C\C(=O)OCC)[nH]1 (SMILES) R. Mishra	ohore 22192-22193
582	Deactivation of 6VWW Enzyme of Corona by Pharmacop Cc1c(CO)sc[n+]1Cc2cccc2 (SMILES) R. Mishra	ohore 22194-22195
583	Deactivation of 6VWW Enzyme of Corona by Pharmacop CCOC(=0)c1[nH]c(COC(=0)C)c2CCCCCc12 (SMILES) R. Mishra	ohore 22196-22197
584	Deactivation of 6VWW Enzyme of Corona by Pharmacop CC(=O)\C=C\c1cc(C)[nH]c1C (SMILES) R. Mishra	ohore 22198-22199
585	Deactivation of 6VWW Enzyme of Corona by Pharmacop CN(C)Cc1c(C)[nH]c(C)c1CN(C)C (SMILES)  R. Mishra	22200-22201
586	Deactivation of 6VWW Enzyme of Corona by Pharmacop CNC(=O)CN1C(=O)CCC1=O (SMILES) R. Mishra	22202-22203
587	Deactivation of 6VWW Enzyme of Corona by Pharmacop CN1CCN(CC1)C(=0)CN2N=C(C=CC2=0)c3ccc(C)cc3 (SMILES) R. Mishra	22204-22205
588	Deactivation of 6VWW Enzyme of Corona by Pharmacop NC(=0)c1ccc(NCC(=0)0)cc1 (SMILES) R. Mishra	22206-22207

589	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Oc1cc(O)c(C(=O)Cc2ccc(F)cc2)c(O)c1 (SMILES) R. Mishra	22208-22209
590	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)c1cc(OC(=O)C)c(C)cc1OCCN(C)C (SMILES) R. Mishra	22210-22211
591	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Cc1ccc2[C@H](CO)c3ccccc3[C@H](CO)c2c1 (SMILES) R. Mishra	22212-22213
592	Deactivation of 6VWW Enzyme of Corona by Pharmacophore $OC(=O)\C=CC(=O)C(=CO1)OCc2cccc2$ (SMILES) R. Mishra	22214-22215
593	Deactivation of 6VWW Enzyme of Corona by Pharmacophore O=C1NC(=O)C2=NC=CNC2=N1 (SMILES) R. Mishra	22216-22217
594	Deactivation of 6VWW Enzyme of Corona by Pharmacophore $C[C@H](C(=O)C)n1c(CN2CCOCC2)nc3N(C)C(=O)N(C)C(=O)c13$ (SMILES) R. Mishra	22218-22219
595	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CN1C(=0)NC(=0)c2[nH]c(nc12)N3CCN(CC0)CC3 (SMILES) R. Mishra	22220-22221
596	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOC(=O)CN1C(=O)C=Nc2ccccc12 (SMILES) R. Mishra	22222-2223
597	Deactivation of 6VWW Enzyme of Corona by Pharmacophore COc1ccc(\C(=N\O)\c2ccc(N)cc2)c(OC)c1 (SMILES) R. Mishra	22224-22225
598	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCOc1ccc(C(=O)NN)c(O)c1 (SMILES) R. Mishra	22226-22227
599	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)(C)c1cc(Cn2cc[nH+]c2)ccc1O (SMILES) R. Mishra	22228-22229
600	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)(Oc1ccc(CI)cc1)C(=O)OCC(=O)NCC(=O)O (SMILES) R. Mishra	22230-22231
601	Deactivation of 6VWW Enzyme of Corona by Pharmacophore Nc1c(Br)cc1CN[C@@H]2CC[C@@H](O)CC2 (SMILES) R. Mishra	22232-22233
602	Deactivation of 6VWW Enzyme of Corona by Pharmacophore NCCC(=O)NCCc1ncc[nH]1 (SMILES) R. Mishra	22234-22235
603	Deactivation of 6VWW Enzyme of Corona by Pharmacophore $C[C@H](C[N+](C)(C)C)OC(=O)N$ (SMILES) R. Mishra	22236-22237
604	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CC(C)(C)NC[C@H](O)c1cc(CI)c(N)c(CI)c1 (SMILES) R. Mishra	22238-22239

605	Deactivation of 6VWW Enzyme of Corona by Pharmacophore C[N+](C)(C)CCOC(=O)Oc1ccc2cccc2c1 (SMILES) Sasi Bhusana Padhi	22240-22241
606	Deactivation of 6VWW Enzyme of Corona by Pharmacophore CCc1cccc2c3CCO[C@@](CC)(CC(=O)O)c3[nH]c12 (SMILES) Sasi Bhusana Padhi	22242-22243
607	Deactivation of 6VWW Enzyme of Corona by Pharmacophore NC(=0)OC1(CCCCC1)C#C (SMILES) Sasi Bhusana Padhi	22244-22245
608	Deactivation of 6W4B Enzyme of Corona by Pharmacophore Nc1cc(CCC(=O)O)ccc1O (SMILES) Sasi Bhusana Padhi	22246-22247
609	Deactivation of 6W4B Enzyme of Corona by Pharmacophore C=CCN1CCS(=O)(=O)CC1 (SMILES) Sasi Bhusana Padhi	22248-22249
610	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CCOC(=O)CNC(C)(C)C (SMILES) Sasi Bhusana Padhi	22250-22251
611	Deactivation of 6W4B Enzyme of Corona by Pharmacophore Oc1cc2CCN=Cc2cc1O (SMILES) Sasi Bhusana Padhi	22252-22253
612	Deactivation of 6W4B Enzyme of Corona by Pharmacophore NN1C=Cc2cccc2C1=N (SMILES) Sasi Bhusana Padhi	22254-22255
613	Deactivation of 6W4B enzyme of corona by pharmacophore Cc1ccc(O)c(c1)C(=O)NO (SMILES) Sasi Bhusana Padhi	22256-22257
614	Deactivation of 6W4B Enzyme of Corona by Pharmacophore C[C@H](SCS[C@H](C)C(=O)O)C(=O)O (SMILES) Sasi Bhusana Padhi	22258-22259
615	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CNC(=O)Oc1cccc2ccccc12 (SMILES) K.P.Rath	22260-22261
616	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CN1C(=O)O[C@H](C1=O)c2cccc2 (SMILES) K.P.Rath	22262-22263
617	Deactivation of 6W4B Enzyme of Corona by Pharmacophore Cn1cnc(C(=O)O)c1C(=O)O (SMILES) K.P.Rath	22264-22265
618	Deactivation of 6W4B Enzyme of Corona by Pharmacophore C[NH2+]CC(=O)c1ccc(O)c(O)c1 (SMILES) K.P.Rath	22266-22267
619	Deactivation of 6W4B Enzyme of Corona by Pharmacophore Nc1ccc(Nc2cccc2)cc1 (SMILES) S. Swain	22268-22269
620	Deactivation of 6W4B Enzyme of Corona by Pharmacophore [O-]C(=O)Cc1ccccc1 (SMILES) S. Swain	22270-22271

621	Deactivation of 6W4B Enzyme of NC(=S)Nc1ccccc1O (SMILES) S. Swain	of Coror	na by Pharmacophore	22272-22273
622	Deactivation of 6W4B Enzyme of Oc1cc([O-])nc2ccccc12 (SMILES) S. Swain	of Coror	na by Pharmacophore	22274-22275
623	Deactivation of 6W4B Enzyme of Corona (SMILES) S. Swain	by Pharma	acophore COc1cc(CI)ccc1O	22276-22277
624	Deactivation of 6W4B Enzyme of OC(=O)C[NH2+]Cc1ccccc1 (SMILES) S. Swain	of Coror	na by Pharmacophore	22278-22279
625	Deactivation of 6W4B Enzyme of OC(=0)CCc1ncccn1 (SMILES) S. Swain	of Coror	na by Pharmacophore	22280-22281
626	Deactivation of 6W4B Enzyme of NC1=CC(=O)NC(=O)N1CC=C (SMILES) S. Swain	of Coror	na by Pharmacophore	22282-22283
627	Deactivation of 6W4B Enzyme of CCNC(=S)SCCC(=O)O (SMILES) S. Swain	of Coror	na by Pharmacophore	22284-22285
628	Deactivation of 6W4B Enzyme of CC1=NN[C@H](C1)c2ccc(O)cc2 (SMILES) S. Swain	of Coror	na by Pharmacophore	22286-22287
629	Deactivation of 6W4B Enzyme of CC(=O)OCCc1scnc1C (SMILES) S. Swain	of Coror	na by Pharmacophore	22288-22289
630	Deactivation of 6W4B Enzyme of CCOC(=N)c1ccc(O)cc1 (SMILES) S. Swain	of Coror	na by Pharmacophore	22290-22291
631	Deactivation of 6W4B Enzyme of CN1CCCN2CCCN=C12 (SMILES) S. Swain	of Coror	na by Pharmacophore	22292-22293
632	Deactivation of 6W4B Enzyme of O=C1N[C@H](CO1)c2cccc2 (SMILES) S. Swain	of Coror	na by Pharmacophore	22294-22295
633	Deactivation of 6W4B Enzyme of CC(=O)NC1=NC(=O)NC=C1 (SMILES) S. Swain	of Coror	na by Pharmacophore	22296-22297
634	Deactivation of 6W4B Enzyme of CN(C)Cc1oc(CO)cc1 (SMILES) S. Swain	of Coror	na by Pharmacophore	22298-22299
635	Deactivation of 6W4B Enzyme of N[C@H](CO)CC1CCCCC1 (SMILES) S. Swain	of Coror	na by Pharmacophore	22300-22301
636	Deactivation of 6W4B Enzyme of CC(=0)O[C@@H]1CS[C@H](O1)C(=0)O (S. Swain	of Coror SMILES)	na by Pharmacophore	22302-22303

637	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CC(C)C[C@H]1S[C@H](C)C(=N1)C (SMILES) S. Swain	22304-22305
638	Deactivation of 6W4B Enzyme of Corona by Pharmacophore OC(=O)c1[nH]c(C(=O)O)c2OCCOc12 (SMILES) S. Swain	22306-22307
639	Deactivation of 6W4B Enzyme of Corona by Pharmacophore ONS(=O)(=O)c1ccccc1 (SMILES) S. Swain	22308-22309
640	Deactivation of 6W4B Enzyme of Corona by Pharmacophore Cc1ccc(cc1)S(=O)(=O)[N-]CI (SMILES) S. Swain	22310-22311
641	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CC(=O)C1=C([O-])C=C(C)OC1=O (SMILES) S. Swain	22312-22313
642	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CCOC(OCC)n1ccnc1 (SMILES) S. Swain	22314-22315
643	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CC1(C)O[C@@H](CC(=O)O)C(=O)O1 (SMILES) S. Swain	22316-22317
644	Deactivation of 6W4B Enzyme of Corona by Pharmacophore N[C@@H](CS(=O)CC=C)C(=O)O (SMILES) S. Swain	22318-22319
645	Deactivation of 6W4B Enzyme of Corona by Pharmacophore N[C@@H](CSc1nccs1)C(=O)O (SMILES) S. Swain	22320-22321
646	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CN1C(=O)N=C([O-])c2c1ncn2C (SMILES) S. Swain	22322-22323
647	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CC(C)CNC(=O)N1CCNC1=O (SMILES) S. Swain	22324-22325
648	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CC(=O)[C@@H]1C(=O)OC(=CC1=O)C (SMILES) S. Swain	22326-22327
649	Deactivation of 6W4B Enzyme of Corona by Pharmacophore CNC(=O)CN1C(=O)CCC1=O (SMILES) S. Swain	22328-22329
650	Deactivation of 6W4B Enzyme of Corona by Pharmacophore NC(=O)c1ccc(NCC(=O)O)cc1 (SMILES) S. Swain	22330-22331
651	Deactivation of 6W4B Enzyme of Corona by Pharmacophore O=C1NC(=O)C2=NC=CNC2=N1 (SMILES) S. Swain	22332-22333
652	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore Clc1nc(Cl)nc(n1)N2CCCc3cccc23 (SMILES) S. Swain	22334-22335

653	Deactivation Nc1cc(CCC(=O) S. Swain		Enzyme ILES)	of	Corona	by	Pharmacophore	22336-22337
654	Deactivation CN(C)C[C@H]( S. Swain		Enzyme 1 (SMILES)		Corona	by	Pharmacophore	22338-22339
655	Deactivation CC(=O)c1cc2CC S. Swain		Enzyme (SMILES)	of	Corona	by	Pharmacophore	22340-22341
656	Deactivation CON1[C@@H]2 S. Swain		Enzyme ]2N(OC)C(		Corona 1=O (SMIL	by .ES)	Pharmacophore	22342-22343
657	Deactivation CCOC(=0)CNC S. Swain		Enzyme LES)	of	Corona	by	Pharmacophore	22344-22345
658	Deactivation COC(=0)CS[C@ S. Swain		Enzyme OC (SMILE		Corona	by	Pharmacophore	22346-22347
659	Deactivation COC(=O)[C@H] S. Swain		Enzyme PH]1C(=O)0		Corona MILES)	by	Pharmacophore	22348-22349
660	Deactivation CCOC(=0)C(=0 S. Swain		Enzyme I)NC(=O)C		Corona CC2 (SMII	by LES)	Pharmacophore	22350-22351
661	Deactivation CCC(=O)Oc1sc( S. Swain		Enzyme )[n+](C)c1C		Corona ILES)	by	Pharmacophore	22352-22353
662	Deactivation CCc1c(C(=O)OC S. Swain		Enzyme n1Cc3ccccc		Corona ILES)	by	Pharmacophore	22354-22355
663	Deactivation CCOC(=O)Cc1c S. Swain		Enzyme (cc12)C(C)C		Corona ILES)	by	Pharmacophore	22356-22357
664	Deactivation O=C1CCCCN S. Swain		Enzyme CC2=O (SM		Corona	by	Pharmacophore	22358-22359
665	Deactivation C[C@H](SCS[CGS. Swain		Enzyme D)C(=O)O (		Corona ES)	by	Pharmacophore	22360-22361
666	Deactivation CC(C)(C)c1cc2C S. Swain		Enzyme )Oc2c(O)c1		Corona ЛILES)	by	Pharmacophore	22362-22363
667	Deactivation CC(C)c1cc(SC#I S. Swain		Enzyme MILES)	of	Corona	by	Pharmacophore	22364-22365
668	Deactivation CCOC(=O)C(NO S. Swain		Enzyme CC (SMILES		Corona	by	Pharmacophore	22366-22367

669	Deactivation of 6Y84 Enzyme of Corona by Pha Cc1cc(C)c(CC(=O)O)c(C)c1 (SMILES) S. Swain	22368-22369
670	Deactivation of 6Y84 Enzyme of Corona by Pha OC(=O)[C@@H]1CS[C@@H](N1)c2ccc(cc2)[C@@H]3N[C@@H](CS3)(SMILES) S. Swain	rmacophore )C(=O)O 22370-22371
671	Deactivation of 6Y84 Enzyme of Corona by Pha $CC(C)(C) \setminus C(=C \setminus C(=O)C(C)(C)C) \setminus [O-]$ (SMILES) S.Nayak	22372-22373
672	Deactivation of 6Y84 Enzyme of Corona by Pha Cc1cc(C[NH+]2CCOCC2)c(C)cc1O (SMILES) S.Nayak	22374-22375
673	Deactivation of 6Y84 Enzyme of Corona by Pha CCOC(=O)[C@@H]1C[NH2+]CCC1=O (SMILES) S.Nayak	22376-22377
674	Deactivation of 6Y84 Enzyme of Corona by Pha C[NH2+]CC(=O)c1ccc(O)c(O)c1 (SMILES) S.Nayak	22378-22379
675	Deactivation of 6Y84 Enzyme of Corona by Pha CCOC(=O)[C@H]1CC[N@@H+](Cc2cccc2)CC1=O (SMILES) S.Nayak	22380-22381
676	Deactivation of 6Y84 Enzyme of Corona by Pha OC(=O)C[NH2+]Cc1ccccc1 (SMILES) S.Nayak	22382-22383
677	Deactivation of 6Y84 Enzyme of Corona by Pha CC(C)(C)[C@H](NC=O)C(=O)O (SMILES) S.Nayak	22384-22385
678	Deactivation of 6Y84 Enzyme of Corona by Pha C1CCN2CCC[NH+]=C2CC1 (SMILES) S.Nayak	22386-22387
679	Deactivation of 6Y84 Enzyme of Corona by Pha COC(=O)[C@H](CC(=O)O)C(C)C (SMILES) S.Nayak	22388-22389
680	Deactivation of 6Y84 Enzyme of Corona by Pha C[NH+]1CCN(Cc2ccccc2)CC1 (SMILES) S.Nayak	22390-22391
681	Deactivation of 6Y84 Enzyme of Corona by Pha CC(C)[C@@H]1CC[C@@H](C)C[C@H]1OC(=O)C(O)O (SMILES) S.Nayak	22392-22393
682	Deactivation of 6Y84 Enzyme of Corona by Pha CN(C)CCN(Cc1ccccc1)c2ccccn2 (SMILES) S.Nayak	rmacophore 22394-22395
683	Deactivation of 6Y84 Enzyme of Corona by Pha CC(=O)Nc1ccc(cc1)S(=O)(=O)NC2(CCCCC2)C(=O)O (SMILES) S.Nayak	22396-22397

684	Deactivation of 6Y84 Enzyme of Corona by Phar OC(=O)CCc1ncccn1 (SMILES) S.Nayak	rmacophore 22398-22399
685	Deactivation of 6Y84 Enzyme of Corona by Phar CC(=O)NC(NC(=O)C)C(=O)c1ccccc1 (SMILES) S.Nayak	rmacophore 22400-22401
686	Deactivation of 6Y84 Enzyme of Corona by Phar Cc1oc(C[N+](C)(C)C)cc1 (SMILES) S.Nayak	rmacophore 22402-22403
687	Deactivation of 6Y84 Enzyme of Corona by Phar CN(C)CCS[C@H](CO)c1ccccc1 (SMILES) S.Nayak	rmacophore 22404-22405
688	Deactivation of 6Y84 Enzyme of Corona by Phart CC1(C)OC(=O)C[C@H]1C(=O)O (SMILES) S.Nayak	rmacophore 22406-22407
689	Deactivation of 6Y84 Enzyme of Corona by Phar CCNC(=S)SCCC(=O)O (SMILES) S.Nayak	rmacophore 22408-22409
690	Deactivation of 6Y84 Enzyme of Corona by Phar CC(C)COC(=O)OCC(C)C (SMILES) S.Nayak	rmacophore 22410-22411
691	Deactivation of 6Y84 Enzyme of Corona by Phar CCN(CC)Cc1cc(N)ccc1O (SMILES) S.Nayak	rmacophore 22412-22413
692	Deactivation of 6Y84 Enzyme of Corona by Phant C[N+](C)(C)Cc1c[nH]c2ccccc12 (SMILES) S.Nayak	rmacophore 22414-22415
693	Deactivation of 6Y84 Enzyme of Corona by Phar COC(=O)[C@](C)(N)Cc1ccc(O)cc1 (SMILES) S.Nayak	rmacophore 22416-22417
694	Deactivation of 6Y84 Enzyme of Corona by Phar CC(C)C(=O)OC[C@H](C)c1ccccc1 (SMILES) S.Nayak	rmacophore 22418-22419
695	Deactivation of 6Y84 Enzyme of Corona by Phar OC(=O)CCCc1ccc(cc1)C(=O)c2cccc2C(=O)O (SMILES) S.Nayak	rmacophore 22420-22421
696	Deactivation of 6Y84 Enzyme of Corona by Phar CCOC(=O)[C@](C)(OC(=O)C)C(=O)C (SMILES) Manju Palei	rmacophore 22422-22423
697	Deactivation of 6Y84 Enzyme of Corona by Phar CC(=O)OCCc1scnc1C (SMILES) Prativa Satpathy	rmacophore 22424-22425
698	Deactivation of 6Y84 Enzyme of Corona by Phar CCOC(=N)c1ccc(O)cc1 (SMILES) Sujata Acharya	rmacophore 22426-22427
699	Deactivation of 6Y84 Enzyme of Corona by Phar O=C1N[C@H](CO1)c2cccc2 (SMILES) Asha rani Dalai	rmacophore 22428-22429

700	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(=O)NC1=NC(=O)NC=C1 (SMILES) Tikina Mishra	22430-22431
701	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CN(C)Cc1oc(CO)cc1 (SMILES) Satyabrata Palei	22432-22433
702	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(=O)O[C@@H]1CS[C@H](O1)C(=O)O (SMILES) S. Naik	22434-22435
703	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore NS(=O)(=O)c1cc(C(=O)O)c(NCc2ccccc2)cc1Cl (SMILES)  Monalisa Joshi	22436-22437
704	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore COc1cc2C[NH2+][C@@H](Cc2cc1OC)C(=O)O (SMILES) Lokanath Meher	22438-22439
705	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(=O)CCc1c(C)c(OC(=O)C)c(C)c(C)c1OC(=O)C (SMILES) Ramesh Sahu	22440-22441
706	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)C1=CC(=O)Oc2c3CCCN4CCCc(cc12)c34 (SMILES) Debajani Tripathy	22442-22443
707	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore OC(=O)c1[nH]c(C(=O)O)c2OCCOc12 (SMILES)  B. Barik	22444-22445
708	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore OC[C@@H](O)COc1ccc(Cc2ccc(OC[C@H](O)CO)cc2)cc1 (SMILES) T. Paramanik	22446-22447
709	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(=O)C1=C([O-])C=C(C)OC1=O (SMILES) G. Mishra	22448-22449
710	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CCOC(OCC)n1ccnc1 (SMILES)  Jyoti Rath	22450-22451
711	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC1(C)O[C@@H](CC(=O)O)C(=O)O1 (SMILES) Namita Panda	22452-22453
712	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore OC[C@H](Cc1cccc(O)c1)[C@H](CO)Cc2cccc(O)c2 (SMILES) M. K. Sahu	22454-22455
713	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)[C@H]1CC[C@H](C)C[C@@H]1OCC(=O)O (SMILES) P. Meher	22456-22457
714	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CCN1C=C(C(=O)[O-])C(=O)c2ccc(C)nc12 (SMILES) C. Tripathy	22458-22459
715	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)CNC(=O)N1CCNC1=O (SMILES) D. Tripaty	22460-22461

716	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CCC(=C1C(=O)CC(CC1=O)C(=O)[O-])[O-] (SMILES)  Manju Palei	22462-22463
717	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore COC(=O)CCC1=NNC(=O)NC1=O (SMILES) Prativa Satpathy	22464-22465
718	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)OC(=O)[C@H](C)NC1=NNC(=S)NC1=O (SMILES) Sujata Acharya	22466-22467
719	Deactivation of 6Y84 ENzyme of Corona by Pharmacophore CC(C)CCOC(=O)[C@H](C)SC1=NNC(=O)NC1=O (SMILES) Asha rani Dalai	22468-22469
720	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CN1C(=O)N(C)c2ncn(Cc3ncc[nH]3)c2C1=O (SMILES) Tikina Mishra	22470-22471
721	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore COC(=O)CCC1=NO[C@H](C[C@@H]2CC(=NO2)CCC(=O)OC)C1 (SMILES) Satyabrata Palei	22472-22473
722	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CCOC(=0)CCc1ccc(\C=C\C(=0)OCC)[nH]1 (SMILES) S. Naik	22474-22475
723	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore Cc1c(CO)sc[n+]1Cc2cccc2 (SMILES)  Monalisa Joshi	22476-22477
724	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CCOC(=0)c1[nH]c(COC(=0)C)c2CCCCCc12 (SMILES) Lokanath Meher	22478-22479
725	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(=O)\C=C\c1cc(C)[nH]c1C (SMILES) Ramesh Sahu	22480-22481
726	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CN(C)Cc1c(C)[nH]c(C)c1CN(C)C (SMILES) Debajani Tripathy	22482-22483
727	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CNC(=O)CN1C(=O)CCC1=O (SMILES) B. Barik	22484-22485
728	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore NC(=O)c1ccc(NCC(=O)O)cc1 (SMILES) T. Paramanik	22486-22487
729	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)c1cc(OC(=O)C)c(C)cc1OCCN(C)C (SMILES) G. Mishra	22488-22489
730	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore Cc1ccc2[C@H](CO)c3ccccc3[C@H](CO)c2c1 (SMILES)  Jyoti Rath	22490-22491
731	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore $C[C@H](C(=O)C)n1c(CN2CCOCC2)nc3N(C)C(=O)N(C)C(=O)c13$ (SMILES) Namita Panda	22492-22493

732	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CN1C(=O)NC(=O)c2[nH]c(nc12)N3CCN(CCO)CC3 (SMILES) M. K. Sahu	22494-22495
733	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CCOC(=0)CN1C(=0)C=Nc2ccccc12 (SMILES) P. Meher	22496-22497
734	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)(C)c1cc(Cn2cc[nH+]c2)ccc1O (SMILES) C. Tripathy	22498-22499
735	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)(Oc1ccc(CI)cc1)C(=O)OCC(=O)NCC(=O)O (SMILES)  D. Tripaty	22500-22501
736	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore Nc1c(Br)cc(Br)cc1CN[C@@H]2CC[C@@H](O)CC2 (SMILES) Manju Palei	22502-22503
737	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore NCCC(=O)NCCc1ncc[nH]1 (SMILES) Prativa Satpathy	22504-22505
738	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore $C[C@H](C[N+](C)(C)C)OC(=O)N$ (SMILES) Sujata Acharya	22506-22507
739	Deactivation of 6Y84 Enzyme of Corona by Pharmacophore CC(C)(C)NC[C@H](O)c1cc(CI)c(N)c(CI)c1 (SMILES) Tikina Mishra	22508-22509
740	Study of Aerodynamics of a Vehicle and its Stability Mukundjee Pandey and Ipsita Mishra	22510-22514
741	Experimental Analysis of a V-Shaped Double Rectangular Tube Parabolic Trough Collector R.C. Mohanty, Mukundjee Pandey and Ipsita Mishra	22515-22520
742	Study of Laminar Flow around the Cylinder Mukundjee Pandey and Ipsita Mishra	22521-22524
743	Analysis of a Diesel Engine in Dual Fuel Mode with Producer GAS Mukundjee Pandey, R.C. Mohanty and Ipsita Mishra	22525-22531
744	Fabrication of Portable Table Mukundjee Pandey, R.C.Mohanty and Ipsita Mishra	22532-22537
745	Experimental Analysis of Cabinet Type Solar Dryer using Evacuated Tube and Thermal Energy Storage Device Mukundjee Pandey,R.C.Mohanty and Ipsita Mishra	22538-22549
746	CFD Simulation of Vertical Axis Wind Turbine Mukundjee Pandey and Ipsita Mishra	22550-22553
747	The Times of Cyber Attacks Sakshi Singh and Suresh Kumar	22554-22560
748	Deactivation of 6VXS Enzyme of Corona by Nc1ccc(Nc2cccc2)cc1 CH Nooka Raju and Rajesh Sukkala	22561-22562
749	Deactivation of 6VXS Enzyme of Corona by CC(=O)c1cc2CCCc2c(O)c1O CH Nooka Raju and S. Siva Sagar Sambangi	22563-22564

750	Deactivation of 6VXS Enzyme of Corona by COC(=0)[C@H]1SCC(=0) [C@H]1C(=0)OC CH Nooka Raju and Rajesh Sukkala	22565-22566
751	Deactivation of 6VXS Enzyme of Corona by OC(=O)C[NH2+]Cc1ccccc1 CH Nooka Raju and S. Siva Sagar Sambangi	22567-22568
752	Deactivation of 6VXS Enzyme of Corona by CCOC(=0)C(=0)N1CCC (CC1)NC(=0)C2CCCC2 CH Nooka Raju and K V Prasad	22569-22570
753	Deactivation of 6VXS Enzyme of Corona by Cn1cnc(C(=O)O)c1C(=O)O P Harikrishna and K V Prasad	22571-22572
754	Deactivation of 6VXS Enzyme of Corona by Cc1cc(C)c(CC(=O)O)c(C)c1 G.Indu Priya and Vinay Dinakaran.M	22573-22574
755	Deactivation of 6VXS Enzyme of Corona by Cc1ccc(O)c(c1)C(=O)NO G.Indu Priya and Vinay Dinakaran.M	22575-22576
756	Deactivation of 6VXS Enzyme of Corona by CC(C)(C)c1cc2C(=O)CC(C) (C)Oc2c(O)c1O G.Indu Priya and K. Rajeshwari	22577-22578
757	Deactivation of 6VXS Enzyme of Corona by CCC(=O)Oc1sc(NCCc2cccc2) [n+](C)c1C G.Indu Priya and K. Rajeshwari	22579-22580
758	Deactivation of 6VXS Enzyme of Corona by CN(C)C[C@H](O) COCc1occc1 G.Indu Priya and K. Venkata Prasad	22581-22582
759	Deactivation of 6VXS Enzyme of Corona by CCOC(=O)[C@H]1CC [N@@H+](Cc2cccc2)CC1=O K.Venkata Prasad and P.Hari Krishna	22583-22584
760	Deactivation of 6VXS Enzyme of Corona by C[NH2+]CC(=O)c1ccc(O) c(O)c1 Vinay Dinakaran Mallepudi and Venkata Prasad Katuri	22585-22586
761	Deactivation of 6VXS Enzyme of Corona by CCOC(=O)CNC(C)(C)C Vinay Dinakaran Mallepudi and Indu Priya G	22587-22588
762	Deactivation of 6VXS enzyme of corona by COC(=O)[C@H](CC(=O)O)C (C)C Vinay Dinakaran M and Indu Priya G	22589-22590
763	Deactivation of 6VXS Enzyme of Corona by Oc1cc([O-])nc2ccccc12 Vinay Dinakaran M and P Hari Krishna	22591-22592
764	Deactivation of 6VXS Enzyme of Corona by CCOC(=O)C(N(C)C)C(=O) OCC Rajesh Sukkala and Sambangi Satyananda Siva Sagar	22593-22594
765	Deactivation of 6VXS Enzyme of Corona by Nc1cc(CCC(=O)O)ccc1O P Harikrishna and CH Nooka Raju	22595-22596
766	Deactivation of 6VXS enzyme of corona by Nc1cc(CCC(=O)O)ccc1O P Harikrishna and CH Nooka Raju	22597-22598
767	Deactivation of 6VXS Enzyme of Corona by CCOC(=O) Cc1c(C)[nH] c2ccc(cc12)C(C)C Rajesh Sukkala and CH.Nookaraju	22599-22600
768	Deactivation of 6VXS Enzyme of Corona by [O-]C(=O)C(=O)Cc1ccccc1 Rajesh Sukkala and K.Rajeswari	22601-22602
769	Deactivation of 6VXS Enzyme of Corona by COC(=O)CS[C@H](C)CC (=O)OC Rajesh Sukkala and K.Rajeswari	22603-22604

770	Nitrate-Nitrogen Affects the Fish Productivity in Fish Ponds Pradip Kumar Prusty, Gagan Kumar Panigrahi, Annapurna Sahoo and Sasmita Panda	22605-22608
771	Temperature Adversely Affects the Fish Productivity in Fish Ponds Pradip Kumar Prusty, Gagan Kumar Panigrahi, Annapurna Sahoo and Sasmita Panda	22609-22612
772	Ammonia-Nitrogen Affects the Fish Productivity in Fish Ponds Pradip Kumar Prusty, Gagan Kumar Panigrahi, Annapurna Sahoo and Sasmita Panda	22613-22616
773	pH of the Pond Water Affects the Pond Productivity Pradip Kumar Prusty, Gagan Kumar Panigrahi, Annapurna Sahoo and Sasmita Panda	22617-22620
774	Dissolved Oxygen Alters the Fish Productivity in Ponds Pradip Kumar Prusty, Gagan Kumar Panigrahi, Annapurna Sahoo and Sasmita Panda	22621-22624
775	Comparative Analysis of Monocrystalline and Polycrystalline PV Module using PV-Sol Software Surya Narayan Sahu, Linkan Priyadarsini and Biswajit Mohapatra	22625-22628
776	Discrete Behaviour Analysis using Modelica Language Implementation Sudhansu Kumar Samal and Jagannath Padhi <sup>2</sup>	22629-22634
777	Dynamical Modelling for Power Grid using Modelica Sudhansu Kumar Samal and Jagannath Padhi	22635-22641
778	Hybrid Cascaded Modular Multi Level Inverter for a PV Powered Water Pumping System Nanda Kishore Ray and Minakhi Behera	22642-22646
779	Live Video Processing using Computer Vision System Toolbox Nimay Chandra Giri and Debaraj Rana	22647-22650
780	Modelling of Components Using Dymola for Power Grid Sudhansu Kumar Samal, Amit Kumar Sahoo and Jagannath Padhi	22651-22658
781	Parameter Analysis of ZCS Resonant Boost Converter for High Power Application Jagannath Padhi	22659-22663
782	Impact of Current Transformer Saturation in Bus-Zone Protection in High Power Transmission Network Jagannath Padhi	22664-22669
783	Smart Grid Technologies and Applications Sandeep Pradhan and Biswajit Mohapatra	22670-22675
784	A Study on English Language Proficiency of Business Executives (Mid level) from selected Corporate Houses in India Girish Prasad Rath	22676-22682
785	Approaches to English language curriculum for English for Science and Technology (EST) students: Implications for teachers and learners  Ajit Kumar Pradhan	22683-22685
786	Modelling and Simulation of Solar Tree for Domestic Lightning Purpose Debashree Debadatta Behera, A.M. Mohanty and R.C. Mohanty	22686-22689

787	Antimicrobial, Antioxidative and Ethnomedicinal Properties of Some Medicinal Plants of Odisha, India: A Review Santwona Dash, Kunja Bihari Satapathy and Gyanranjan Mahalik	22690-22704
788	Experimental Study of Solar Dish Type of Solar Concentrator Debashree Debadatta Behera, Abinash Rout, R.C. Mohanty and A.M. Mohanty	22705-22708
789	Design of a Meander Line Broadband Small Antenna Rupanita Das, Harish Chandra Mohanta and Trushnalina Mohapatra	22709-22714
790	Heavy Metal Accumulation by Plants as a Result of Diwali Fire Craker Emission in Urban Areas of Bhubaneswar, Odisha, India Ushashee Mandal, Monalisa Panda, Somanath Routray, Sagarika Panda and Gyanranjan Mahalik	22715-22719
791	Analog Electronics Circuit Simulation in Dymola Harish Chandra Mohanta	22720-22726
792	Preparation and Testing of Dual Blended Biodiesel of Castor and Mahua in VCR Diesel Engine Manas Ranjan Padhi	22727-22732
793	Structural and Dielectric Properties of Layered Structure Bismuth Oxide Ceramic SrBi <sub>2</sub> V <sub>2</sub> O <sub>9</sub> K. Mohanty and Gyanendra Kumar Mishra	22733-22735
794	Emission Characteristics of Diesel Engine with Mixed Biodiesel Blend of Castor and Mahua Manas Ranjan Padhi and Jitendra Narayan Biswal	22736-22741
795	Tunable Metamaterial Antenna Rupanita Das and Harish Chnadra Mohanta	22742-22745
796	Identification of Potential Therapeutic Phytochemicals of Bael ( <i>Aegle marmelos</i> ) against Emerging Human Pathogen <i>Helicobacter pylori</i> : A Novel Hierarchical <i>In silico</i> Approach Sonali Dash, Sunil Kumar Jha and KVD Prakash	22746-22749
797	In silico Molecular Docking Analysis of Phytochemicals from Curcuma longa (Turmeric) against Aminopeptidase Nof Escherichia coli causing Infections in Urinary Tract (UTI)  S. Chakrabarty, S. K Jha and M. P. Mishra	22750-22754
798	Computer-Aided Investigation of Phytochemicals from Tulsi (Ocimum sanctum) against Streptococcus pyogenes based on Molecular Docking Studies S. Dash, M. P. Mishra and S. K. Jha	22755-22758
799	Dark Energy Cosmological Model and Overview Sasmita Kumari Pradhan, Gyanendra Kumar Mishra and Prerana Prada Padhan	22759-22763
800	Evaluation of Relaxation Time, Acoustic Impedance and Gibb's Free Energy of Edible Oils through Ultrasonic Technique Sasmita K Pradhan, Subhraraj Panda and Deepak K Barik	22764-22768
801	Healthcare Awareness; She Decides on Her Health, Her Future Prasanta Mohanty	22769-22774
802	Skill Training in Retail and Hospitality; A Successful Model to Create Employment for Youth in Service Sector Prasanta Kumar Mohanty	22775-22780
803	Apparel Skill Training; Empowering Women Youth for a Better Life Prasanta Kumar Mohanty	22781-22786

804	Life Automobile Service; A Skill Training to Drive the Future of Youth	22787-22791
805	Prasanta Kumar Mohanty Change Detection Study using Geospatial Technology and Remotely Sensed Data- A Case Study for Gajapati District Mohit Sahu, Prafulla Kumar Panda, Barsha Behera, Smrutirekha Sahoo and Debi Prasan Behera	22792-22800
806	Indigenous Traditional Knowledge (ITK) in Agriculture: Cases from Srikakulam District, Andhra Pradesh Raghuram Palli and Atanu Deb	22801-22805
807	Ethnographic Analysis of Family Farms: A Case of East Singhbhum, Jharkhand Atanu Deband Pritom Das	22806-22812
808	Role of Extension Workers and Institutions in 'Agricultural Technology Transfer' Raghuram Palli and Atanu Deb	22813-22820
809	Defining the Concept of 'Family Farming': Periphery and History Raghuram Palli and Atanu Deb	22821-22826
810	Gender Dynamics in Family Farms: Cases from Tribal Villages of East Singhbhum, Jharkhand Atanu Deb and Pritom Das	22827-22835
811	Sacred Groves and Community Participation in Conservation of Natural Resources: A Case Study of 'Santal' Tribes of Palamu, Jharkhand Pritom Das, Subhasis Mondal and Atanu Deb	22836-22842
812	Women Empowerment through SHGS: Looming Lights from the Tribal Villages of Jharkhand Atanu Deb, RaghuramPalli and Preetha Bhadra	22843-22850
813	Space Utilization Dimensions of Family Farms: A Case of East Singhbhum, Jharkhand Atanu Deb and Pritom Das	22851-22856
814	Temporal Dimensions of Family Farms: Looming Lights on East Singhbhum, Jharkhand Atanu Deb and Pritom Das	22857-22861
815	Urbanization: Changes in the Socio Economic Condition of the Tribes (Bhumij) Atanu Deband Pritom Das	22862-22870
816	Digital Financial Inclusion: A Review Ayan Kundu and Atanu Deb	22871-22874
817	Conceptualizing Minimum Support Price in Agriculture Souvik Chatterjee, Subhadip Mondal and Atanu Deb	22875-22878
818	Institutional Linkage Fitches Farm Sustainability: a Specific Case of Family Farming Atanu Deband Pritom Das	22879-22883
819	Community Networkingof Family Farms: Impendingluminosities on East Singhbhum, Jharkhand Atanu Deb and Pritom Das	22884-22888

820	Community for Livelihood Interventions: Realism and Challenges Pritom Das and Atanu Deb	22889-22892
821	Climate Change and Its Political Manifestation: A Terrible Issue for Sundarban Forest Pritom Das, Rema Das and Atanu Deb	22893-22895
822	Gender Analysis of Farm Labours: A Case of Purulia District, West Bengal Subhasis Mondal and Atanu Deb	22896-22900
823	Collectivizing Community for Development Action: A Conceptual Framework Souvik Chatterjee and Atanu Deb	22901-22904
824	Sub Sector Analysis of Potato in Burwan Block of Murshidabad District Souvik Chatterjee, Porag Shome and Atanu Deb	22905-22909
825	Challenges in Self-Employed Livelihood Strategies: A Study of Clay-Doll Makers Around Krishnanagar in Nadia, West Bengal Ayan Kundu and Atanu Deb	22910-22913
826	In silico Analysis of the Long Pepper as Targeted Therapy for Targeted Disease Tomato Yellow Leaf Curl Manohar Nahak and Preetha Bhadra	22914-22922
827	In silico Analysis of the Long Pepper as Targeted Therapy for Targeted Animal Disease Cholera, Manohar Nahak and Preetha Bhadra	22923-22931
828	In silico Analysis of the Rosemary as Targeted Therapy for Targeted Animal Disease Nephritis Nemalapuri Venkatesh and Preetha Bhadra	22932-22941
829	In silico Analysis of the Rosemary as Targeted Therapy for Targeted Plant Disease Causing Microbial Disease Black Gram and Green Gram Nemalapuri Venkatesh and Preetha Bhadra	22942-22950
830	In silico Analysis of the Green Chiretta (Andrographis paniculata) as Targeted Therapy for Targeted Plant Disease Causing Microbial Disease Chocolate Spot P Tejoswini Reddy and Preetha Bhadra	22951-22958
831	A Review on Chemical Constituents and Pharmacological Studies of Coriandrum sativum L.  N S Subir Ranjan and Preetha Bhadra	22959-22963
832	Amazon Sagemaker for Classifying Digital Images Raj Kumar Mohanta and Binapani Sethi	22964-22968
833	Aws lot Analytics to Analyze Forest Fire Images Raj Kumar Mohanta	22969-22973
834	Design of a Flower Shaped Dipole Antenna Rupanita Das and Harish Chandra Mohanta	22974-22978
835	Prediction of Bioactivity of Components of <i>Curcuma longa</i> against Giardiasis, through <i>In silico</i> Approach Soumya Jal, Sunil Kumar Jha and Priyanka Swain	22979-22982
836	In silico Antifungal Analysis of Bioactive Compounds from Syzygium aromaticum against Vulvo-Vaginal Candidiasis Manisha Tripathy, Preeti Pallavi, Itishree Pattanaik and Soumya Jal	22983-22987
837	Study of Antifungal Activity of Phytochemicals from <i>Azadirachta indica</i> Against Vulvo-Vaginal Candidiasis: An <i>In silico</i> Approach Manisha Tripathy, Sangeeta Chhotaray, Aparajita Mohapatra and Soumya Jal	22988-22992

838	Screening of Phytochemicals of <i>aloe Barbadensis miller</i> for its Anti- Inflammatory Activity against Rheumatoid Arthritis: An <i>In Silico</i> Approach Sangeeta Chhotaray, Preeti Pallavi and Soumya Jal	22993-22997
839	In silico Methodology for Phytochemical Analysis of Azadirachta indica against Rheumatoid Arthritis Preeti Pallavi and Soumya Jal	22998-23002
840	A Study on the Performance of Some Multi-Response Optimization Methods for Usm Process Santosh Patro, I Harishand P Srinivasa Rao	23003-23016
841	A Survey on Friction Stir Welding for Soft Materials P Suman, P. Srinivasa Rao, and D. Sreeramulu	23017-23023
842	Impact of Inflation on Major Financial Ratios Pramod Kumar Patjoshi	23024-23035
843	Green Synthesis of Metal Nanoparticles and its Characterizations: A Review Prakash Kumar Sahoo and Susanta Kumar Biswal	23036-23046
844	Youtube, Education and the Youth: A Perceptual Analysis Ambika Sankar Mishra	23047-23053
845	Big-Data Processing using Machine Learning: A Review Debendra Maharana	23054-23059
846	A Review on Potential Ethnomedicinal Plants used against Ocular Diseases Krishna Kadambini Behera and Gyanranjan Mahalik	23060-23068
847	Review on Allelopathy: A Natural Way Towards Wild Plant Management Anusaya Panda and Gyanranjan Mahalik	23069-23075
848	Transformation in Effective Inclusive Education and Personalized Learning by Integrating IoT Technologies Jayakishan Meher	23076-23081
849	Grain Biology of Selected Rice Landraces of Southern Odisha Koustava Kumar Panda, Satpal Singh Bisht and Ashok Kumar Panigrahi	23082-23096
850	A Statistical Approach on the Impact of COVID-19 in Procurement Management System in Construction Projects M.Vignesh and Laxmidhar Behera	23097-23104
851	ANN Based Speech Reorganisation System and It's Implementation N.Jeebaratnam, Banitamani Mallik and Rajesh Misra	23105-23109
852	Review of Different Techniques for Classifying and Retrieving the Data from Big Data Sangram Keshari Swain	23110-23120
853	Effect of Current and Pulse Time for Machining Alluminium, Brass, Stainless Steel, Mild Steel and En8 Byelectro Discharge Machinig P. P. Debata and B. R. Pattanaik	23121-23124
854	Numerical Analysis of Fatigue Damage Development for Braided Carbon- Fiber Polymer Matrix Composite Ramesh Chandra Mohapatra, R.C. Mohanty and Dayanidhi Jena	23125-23130
855	Use of Hydrogen in Polymer Electrolyte Membrane Fuel Cells: An Overview Prateek Ray and R.C. Mohanty	23131-23138
856	Assessment of Applicants' Response on the Implementation of RTI Act: A Case Study of Srikakulam District Koppala Venugopal, Saikrishna Vadrevu, Saumendra Das and Sabyasachi Dey	23139-23144

Designing a Sharply Estimated Natural Solution of Acetone-Water: Ratification as Refrigerant in Vapour Compression System S. B Mohapatra and Shubham Chakraborty  858  Nutrient Management in Foxtail millet: A Review Sagar Maitra, Sandipan Pine, Tanmoy Shankar and Biswajit Pramanick  Impact of Fly Ash and Vermicompost Treated Soil on Growth of Vigna radiata L. and Cicer arietinum L. Subhadarshini Sahoo and Sagarika parida  860  Basic Design to Build the Airship for Indoor Application S. K. Samal, P. K. Dash and Debabrata Mishra  Seasonal Impact on Gum Production of Three Plant Species from Tropical Forest of Sambalpur District, Odisha, India Tapas Paramanik and Shantanu Bhattacharyya  The Distribution Pattern of Foliose Lichen in Different Forest Region of Keonjhar District, Odisha, India Sushanta Kumar Sethy and Srimay Pradhan  Design & Performance Comparison of 8*8 Multiplier Circuit using Modified Gate Diffusion Input Adder Cell Rajesh Kumar Misra, Prabhatk patnaik and MVamshi Krishna  Comparative Evalution of Egg Quality Characteristics of Indigenous Variety of Gallus gallus domesticus  23145-231 23166-231	160 165 175 180
Sagar Maitra, Sandipan Pine, Tanmoy Shankar and Biswajit Pramanick  Impact of Fly Ash and Vermicompost Treated Soil on Growth of Vigna radiata L. and Cicer arietinum L. Subhadarshini Sahoo and Sagarika parida  Basic Design to Build the Airship for Indoor Application S. K. Samal, P. K. Dash and Debabrata Mishra  Seasonal Impact on Gum Production of Three Plant Species from Tropical Forest of Sambalpur District, Odisha, India Tapas Paramanik and Shantanu Bhattacharyya  The Distribution Pattern of Foliose Lichen in Different Forest Region of Keonjhar District, Odisha, India Sushanta Kumar Sethy and Srimay Pradhan  Design & Performance Comparison of 8*8 Multiplier Circuit using Modified Gate Diffusion Input Adder Cell Rajesh Kumar Misra, Prabhatk patnaik and MVamshi Krishna Comparative Evalution of Egg Quality Characteristics of Indigenous Variety	165 175 180
L. and Cicer arietinum L. Subhadarshini Sahoo and Sagarika parida  Basic Design to Build the Airship for Indoor Application S. K. Samal, P. K. Dash and Debabrata Mishra  Seasonal Impact on Gum Production of Three Plant Species from Tropical Forest of Sambalpur District, Odisha, India Tapas Paramanik and Shantanu Bhattacharyya  The Distribution Pattern of Foliose Lichen in Different Forest Region of Keonjhar District, Odisha, India Sushanta Kumar Sethy and Srimay Pradhan  Design & Performance Comparison of 8*8 Multiplier Circuit using Modified Gate Diffusion Input Adder Cell Rajesh Kumar Misra, Prabhatk patnaik and MVamshi Krishna Comparative Evalution of Egg Quality Characteristics of Indigenous Variety	175 180 186
S. K. Samal, P. K. Dash and Debabrata Mishra  Seasonal Impact on Gum Production of Three Plant Species from Tropical Forest of Sambalpur District, Odisha, India Tapas Paramanik and Shantanu Bhattacharyya  The Distribution Pattern of Foliose Lichen in Different Forest Region of Keonjhar District, Odisha, India Sushanta Kumar Sethy and Srimay Pradhan  Design & Performance Comparison of 8*8 Multiplier Circuit using Modified Gate Diffusion Input Adder Cell Rajesh Kumar Misra, Prabhatk patnaik and MVamshi Krishna Comparative Evalution of Egg Quality Characteristics of Indigenous Variety	180 186
Forest of Sambalpur District, Odisha, India Tapas Paramanik and Shantanu Bhattacharyya  The Distribution Pattern of Foliose Lichen in Different Forest Region of Keonjhar District, Odisha, India Sushanta Kumar Sethy and Srimay Pradhan  Design & Performance Comparison of 8*8 Multiplier Circuit using Modified Gate Diffusion Input Adder Cell Rajesh Kumar Misra, Prabhatk patnaik and MVamshi Krishna  Comparative Evalution of Egg Quality Characteristics of Indigenous Variety	186
862 Keonjhar District, Odisha, India Sushanta Kumar Sethy and Srimay Pradhan  Design & Performance Comparison of 8*8 Multiplier Circuit using Modified  Gate Diffusion Input Adder Cell Rajesh Kumar Misra, Prabhatk patnaik and MVamshi Krishna  Comparative Evalution of Egg Quality Characteristics of Indigenous Variety	
863 Gate Diffusion Input Adder Cell Rajesh Kumar Misra,Prabhatk patnaik and MVamshi Krishna Comparative Evalution of Egg Quality Characteristics of Indigenous Variety	193
Bimal Prasad Barik and Yashaswi Nayak	199
Induced Breeding of Gold Fish ( <i>Carassius auratus</i> ) using Synthetic Hormone (Ovatide) and PituitaryExtract Anupama Baral, Aurobinda Das and Yashaswi Nayak	206
Studies on Estimation of Phytochemicals from <i>Plumeria rubra</i> and <i>Plumeria alba</i> Lopamudra Samantaray and Yashaswi Nayak	213
Bamboo Handicraft and Tribal Economy: A Case of Mahali Tribe of Angara  867 Block, Jharkhand 23214-232  Mangat Ram Nureti, Arindam Ghosh, Arunava Sengupta and Atanu Deb	219
Skill Development and Employment Generation through Lac Cultivation in Tribal area of Ranchi District Saheb Mondal, Arindam Ghosh, Arunava Sengupta and Atanu Deb	237
Screening of Bio-formulations for their Bio-Efficacy against <i>Trichoderma</i> : In  Relation to Edible Mushroom  Ajeetkumar, R. N. Verma and Atanu Deb	242
Water Soluble Component Present in waste <i>Azolla pinnata</i> D.S. Mitch. and its Utilization for Soil Quality Improvement Rachayita pradhan, Arun Kumar Pradhan and Atia Arzoo	247
Comparative Studies on Biocontrol of Noxious Weed <i>Parthenium hysterophorus</i> L. by Application of <i>Eucalyptus globulus</i> Labill. and <i>Hyptis suavolence</i> L.  Atia Arzoo	252
Studies on the Changes in Various Water Quality Parameters Due to Coal Mining at Talcher Mining Areas of Odisha, India Atia Arzoo and Kunja Bihari Satapathy  23253-232	259
Impact of Certain Macro-Economic Indicators on Ownership of Room Air-Conditioners across Indian States Bijay Bhujabal and Joy Mojumder	267

874	Trends in Household Savings and Investments during FY 1998-FY2015-An Analysis Bijay Bhujabal and Subrato Bhadury	23268-23275
875	Effectiveness of Dyadic Communication of Farm Family Heads with Their Daughters Chitrasena Padhy, Pakalpati Satyanarayana Raju and A Sarkar	23276-23279
876	Genetic Control on Root Organogenesis in Cereal Crops Debanjana Saha and Avinash Sharma	23280-23285
877	New Dimensions of RNA Based Technologies in Plant Functional Genomics Debanjana Saha and Prajjal Dey	23286-23294
878	Exploring the Classical Language: Odia – a Historical Linguistic Approach Taneeva Das	23295-23301
879	Structural and Impedance Properties of Iron (Fe) based Ceramic Gyanendra Kumar Mishra and N.K. Mohanty	23302-23306
880	Real-Time Slide Door Automation and Security System with RF Technology Subrat Kumar Pradhan, Swarna Prabha Jena and Debaraj Rana	23307-23313
881	LPG Leakage Detection and Automated Booking System using LPC2129 Subrat Kumar Pradhan, Swarna Prabha Jena and Debaraj Rana	23314-23318
882	Remote Monitoring Controlling and Automation of Protected Environment Cultivation Priyanka Biswal, Debasnan Singh, Puja Nayak, Subrat Kumar Pradhan and Swarna Prabha Jena	23319-23326
883	ARM 7-Based Alcohol Detection and Accident Prevention of Vehicle Arun Kumar Nayak, Subrat Kumar Pradhan and Swarna Prabha Jena	23327-23331
884	Design and Implementation of Dual Port SRAM Chandra Sekhar Dash and Satyanarayan Padhy	23332-23335
885	Design of SRAM Augmented 32 Bit Synchronous FIFO Satyanarayan Padhy and Chandra Sekhar Dash	23336-23339
886	ASIC Implementation of Halftone Image Converter Satyanarayan Padhy and Chandra Sekhar Dash	23340-23343
887	Design and Implementation of Approximate Adder using Cadence Chandra Sekhar Dash and Satyanarayan Padhy	23344-23347
888	Design and Implementation of Wallace Tree Multiplier Chandra Sekar Dash and Satyanarayan Padhy	23348-23351
889	Design and Implementation of UART Protocol Chandra Sekhar Dashand Satyanarayan Padhy	23352-23356
890	Design and Implementation of Memristor based Sequential Circuits Satyanarayan Padhy and Chandra Sekhar Dash	23357-23359
891	Barcode Detection using Computer Vision Debaraj Rana, Bhabani Dash and Swarna Prabha Jena	23360-23364
892	Physical Modeling of Electronics Circuit using Simulink for Online Class Debaraj Rana, Bhabani Dash and Subrat Kumar Pradhan	23365-23368
893	A Comparative Design and Analysis of Broadband Rectenna application to wireless Energy Generation Deepak Kumar Barik, Chandra Sekhar Dash, Prabhat K Patnaik and Shibashis Pradhan	23369-23371

	Drive Test Analysis for a 2rd Concretion of CSM System and its EME Survey	
894	Drive Test Analysis for a 3 <sup>rd</sup> Generation of GSM System and its EMF Survey Deepak Kumar Barik, Subhraraj panda, Shibashis Pradhan and Prabhat K Patnaik	23372-23377
895	Analysis and Report Generation of 4G LTE Drive Test: A Case Studies  Deepak Kumar Barik, Prabhat K Patnaik, Subhraraj panda and Shibashis  Pradhan	23378-23382
896	A Case Analysis of EMF Survey and 2 <sup>nd</sup> Generation Drive Test for a Telecommunication Network  Deepak Kumar Barik, Shibashis Pradhan and Subhraraj panda	23383-23388
897	A Study of Computer Graphic Image AnimationTechnique Harish Chandra Mohanta and Sambita Dalal	23389-23392
898	Design of a Microstrip Slot Antenna Harish Chandra Mohanta and Rupanita Das	23393-23396
899	A Study of Microwave Filters Rupanita Das and Harish Chandra Mohanta*	23397-23405
900	Multi-Level Security and Control System of Vehicle using Smart Technologies Swarna Prabha Jena and Subrat Kumar Pradhan	23406-23411
901	Smart Shopping Basket: an Application of Radio Frequency Identification Technique Swarna Prabha Jena and Subrat Kumar Pradhan	23412-23417
902	Wireless Temperature Humidity Monitoring Controlling and Analysis of Multiple Room Swrna Prabha Jena and Subrat Kumar Pradhan	23418-23423
903	Voiced Based Electronics Guidance System for Visually Impaired Pedestrians Swarna Prabha Jena, Subrat Kumar Pradhan and Debaraj Rana	23424-23431
904	Self-Driven Metro and Biometric Reservation System using ARM Microcontroller Swarna Prabha Jena and Subrat Kumar Pradhan	23432-23438
905	Vasicine May Inhibit the Activity of Free Enzyme of the 2019-nCoV Main Protease P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23439-23441
906	Vasicinone Binds to the Active Site of the Free Enzyme of the 2019- nCoV Main Protease P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23442-23444
907	Quercitin binds To the Free Enzyme of the 2019-nCoV Main Protease P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23445-23447
908	Kaempferol May Bind To the Active Site of the Free Enzyme of the 2019-nCoV Main Protease P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23448-23450
909	Aloeemodin May Deactivate the Free Enzyme of the 2019-nCoV Main Protease P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23451-23453
910	Bufotenine May Bind To the Active Site of the Free Enzyme of the 2019-nCoV Main Protease P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23454-23456
911	Dopamine Interacts with the Free Enzyme of the 2019-nCoV Main Protease P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23457-23459

912	Quercitin May Stall the Activity of Papain-like Protease of SARS-CoV-2 P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23460-23462
913	Kaempferol May Stall the Activity of Papain-like Protease of SARS-CoV-2 P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23463-23465
914	Aloeemodin Inhibits the Activity of Papain-like Protease of SARS-CoV-2 P.K. Prusty, S.K. Sahoo and G.K. Panigrahi	23466-23468

## Editorial.....



World Oceans Day has been celebrating the ocean on June 8th every year since 2002. And while Covid-19 and social distancing are changing how we recognize our blue planet this year, the need for action is perhaps more important than ever. For 2020, World Oceans Day is growing the global movement to call on world leaders to protect 30% of the world's ocean by 2030 - a campaign called 30x30. By safeguarding a least 30% of our ocean through a network of highly protected areas we can help ensure a healthy home for both marine and human life. World Oceans Day Manager Jeff Demain was pointed out "We are delighted by the

Thanks: UNO/WOD

number of global events taking place this year". "The range of online actions is compelling. Where safe, there are also a number of beach cleanups around the globe. The key conservation message of protecting 30% of our land and ocean by 2030 is being carried far and wide in this year's network. When we think of public health risks, we may not think of the ocean. Increasingly, however, the health of the ocean is intimately tied to our health. Some may be surprised to read that organisms discovered at extreme depths are used to speed up the detection of COVID-19, and probably even more to learn that, it is the environment that could give a solution to humankind.

This is one of the multiple reasons why we should celebrate **World Oceans Day**: to remind everyone of the major role the oceans have in everyday life. They are the lungs of our planet, providing most of the oxygen we breathe. The purpose of the Day is to inform the public of the impact of human actions on the ocean, develop a worldwide movement of citizens for the ocean, and mobilize and unite the world's population on a project for the sustainable management of the world's oceans. They are a major source of food and medicine and a critical part of the biosphere. In the end, it is a day to celebrate together the beauty, the wealth and the promise of the ocean. As the challenges to the ocean continue to grow, so does the need for novel solutions and the people driving them. To that end, the theme of UN World Oceans Day 2020 is "**Innovation for a Sustainable Ocean.**" Innovation—relating to the introduction of new methods, ideas, or products—is a dynamic term, and one that is fundamentally filled with hope. The UN World Oceans Day celebration this year will take place as a virtual event produced in partnership with Oceanic Global.

The event will shed light on innovations from around the globe in areas of need that are both promising and proven, ones that in still optimism, and ones that have demonstrated the ability to scale effectively. It will also provide a platform to thought leaders of varied backgrounds, who are paving new paths forward for the health of our ocean and our planet. The Decade will strengthen international cooperation to develop the scientific research and innovative technologies that can connect ocean science with the needs of society. Conserve our Ocean..........Conserve our Resources........

Vijikumar Sahadevan Editor in Chief, IJONS