



Kasegaon Education Society's,

SMT. KUSUMTAI RAJARAMBAPU PATIL

KANYA MAHAVIDYALAYA

(Arts, Commerce and Science), Islampur

Tal. Walwa, Dist. Sangli - 415 409 (M. S.), India.

www.krpkanya.org



SOUVENIR

Shivaji University, Kolhapur

Sponsored

INTERNATIONAL CONFERENCE

On

**"RECENT TRENDS IN PURE AND APPLIED SCIENCES"
(ICRTPAS-2023)**

(24th and 25th March, 2023)

Sr. No	Title of Research Paper	Name of Authors	Page No.
OP-A14	Relative abundance and species richness of herpatofauna in Western Solapur, Maharashtra (India)	Abhijit B. Mane And Vijaykumar S. Gadekar	14
OP-A15	Antimicrobial activity and phytochemicals screening of ethanolic stem extract of <i>Acmella calva</i>	S. S. Desai, G. K. Sontakke and T. C. Gaupale	15
OP-A16	First record of <i>Scymnus pallidicollis</i> Mulsant 1853, (Coleoptera: Coccinellidae: Coccinellinae) from South West, India.	Priyanka Bapurao Patil and Sunil Madhukar Gaikwad	16
OP-A17	Toxicity of phenylmethane sulfonyl fluoride on larval triacylglycerol acylhydrolase activity of <i>Hellula undalis</i> (Fabricius).	R. J. Sawant, S. A. Jadhav and R. M. Gejage	17
OP-A18	Taxonomy of Stored Grain Pest <i>Callosobruchus phaseoli</i> (Gyllenhal, 1833) (Coleoptera: Chrysomelidae: Bruchinae)	Dhanashree R. Salunkhe and Sunil M. Gaikwad	18
OP-A19	Occurrence and biology of Tailed Jay (<i>Graphium agamemnon</i>) and Common Jay (<i>Graphium doson</i>) butterfly on <i>Polyalthia longifolia</i>	Shubhangi K. Mohite and L.P. Lanka.	19
OP-A20	Blood glucose and Glycogen levels as indicators of stress in the freshwater fish, <i>Cirrihinus mrigala</i> under Cyphenothrin intoxication.	Sapna S Anigol and Muniswamy David	20
OP-A21	Fenoxaprop-P-Ethyl Induced Biochemical Changes in Fresh Water Fish <i>Cyprinus carpio</i> under Sublethal Exposure.	Srinivas B Neglur and Muniswamy David	21
OP-A22	Evaluation of anti-diabetic efficacy of biogenic zinc oxide nanoparticles using With aniacoagulans berries extract via intervention in insulin signalling pathway and restoration of pancreatic β -cells.	Jarnain Naik, Ajay Kumar Oli and M. David	22
OP-A23	Studies on larval lipase activity in lemon butterfly, <i>Papilio demoleus</i> (Linnaeus)	Manisha R. Gejage, Rasika R. Gejage and R. M. Gejage	23
OP-A24	Studies on biology of spotted pod borer, <i>Maruca vitrata</i> .	S. A. Jadhav, R. J. Sawant and R. M. Gejage	23
OP-A25	Study of the life cycle of the common leopard butterfly, <i>Phalanta phalantha phalantha</i> (Drury, [1773]) (Lepidoptera: Nymphalidae).	Aarati Nivasrao Patil And Sunil Madhukar Gaikwad	24

Poster Presentation: Life Sciences Date: 25th March 2023, Time: 2.00 pm to 3.30 pm
Session V-A

Sr. No.	Title of Poster	Name of Authors	Page No.
PP-A1.	Bryodiversity, Threats And Conservation Of Mosses Of Kolhapur District (M. S.), India	Sanjaykumar M. Magdum And Rajendra A. Lavate	65
PP-A2.	Waste Management Initiatives In India .	Bhumijignesh Shah And Dr.Pratibha A. Jagtap	66
PP-A3.	Effect of Sodium Azide on Seed Germination and Seedling Growth on <i>Trigonella foenum-graecum</i>	Ahista I. Mulla, Sanjaykumarmagdum And Dilipkumar T. Patil	66
PP-A4.	Effect of Mercuric Chloride Toxicity on Male Reproductive System of Wistar Albino rat (<i>Rattus norvegicus</i>).	M.P.Sampada, Rajeshwari D. Sanakal, Muniswamy David	67
PP-A5.	Dietary Inclusion of Seaweed Extract On Protein Content Enzyme Activity And Economic Parameters of <i>Bombyx Mori</i> .	S. P. Nalawade and I. S. Kshirsagar	68
PP-A6.	Death feigning (thanatosis) behavior of long-legged cricket frog, <i>Minervarya syhadrensis</i> (Annandale, 1999): Northern Western Ghats.	N. C. Hiragond, R. N. Patil, S. S. Dhumale And D. L. Bharmal	68
PP-A7.	Biowaste molluscan shell-derived potential heterogeneous catalyst for the synthesis of bioactive 2-amino-4H-chromenes in the aqueous medium.	S. U. Patil, U.P. Patil	69
PP-A8.	Population Dynamics of Rotifers in Krishna River, Sangli, Maharashtra.	Patil S. U.	70
PP-A9.	Study of protein, carbohydrate and its separation from larvae of <i>Earias vittella</i> .	Tejashri C. Patil, G. K. Sontakke, R. J. Patil, S. M. Yevaluje, A. S. Kamble And S. U. Shelar	71
PP-A10.	Partial characterization of pupal lipase of <i>Maruca vitrata</i> (Fabricius).	S. A. Jadhav R. J. Sawant And R. M. Gejage	72
PP-A11.	Body mass index and blood pressure correlation among primary school students.	Satyawan S. Patil and Abhijit B. Ghadage	73
PP-A12.	Quality of Bore well water in Jambhulni area of Satara District (M. S), India.	Lubal M. J. and Gejage R.R.	74
PP-A13.	Physico-chemical Characteristics Man River Water Near Dahiwadi area of Satara District (M. S), India.	Lubal M. J. and Gejage R.R.	74
PP-A14.	Phytochemicals analysis of active compounds from the leaf extracts of <i>Barleria cristata</i> .	R. S. Dubal , K. J. Kamble, Jadhav P. P. , Hujare N. N. , Jagtap S. C.	75

Smt. K. R. P. Kanya Mahavidyalaya Islampur, Dist. Sangli (M.S.) India.

**ORAL PRESENTATION
ABSTRACTS:
LIFE SCIENCES**

Study of protein, carbohydrate and its separation from larvae of
Earias vittella

¹ Tejashri C. Patil, ² G. K. Sontakke, ³ R. J. Patil, S. M. Yevaluje, A. S. Kamble and S. U. Shelar

¹ Department of Zoology, Vivekanand College, Kolhapur

² Head and Assistant Professor, Department of Zoology, Vivekanand College, Kolhapur

³ Students, Department of Zoology, Vivekanand College, Kolhapur

Corresponding Author: tejashricjpatil@gmail.com

Abstract

Earias vittella is a prominent pest of okra. The larvae damages host plant by boring the hole into tender shoots in the vegetative stages of the buds, flower and young fruit development. Protein has very important role in biological activities such as growth, development, metamorphosis and maintenance of insect physiology of various tissues. Protein is the principle source of muscles, glands and other tissues development during larval stages. Carbohydrates plays essential role in insect nutrition. In present study, the amount of protein estimated by Lowry's method and carbohydrate estimated by Anthrone method. The protein and carbohydrates separated by paper chromatography. In 8th day larvae total amount of protein obtained is 47µg /mg tissue and from paper chromatography the Rf value of amino acids matches with standard amino acids. Hence, amino acids present in larval homogenate are isoleucine, methionine, tyrosine, valine, glutamine, serine, aspartic acid, leucine and tryptophan. Total carbohydrate in 8th day larvae is 85µg /mg of tissue, paper chromatography for carbohydrate separation shows the Rf values which matches with glucose, lactose, Fructose, Maltose.

Keywords: *Earias vittella*, Carbohydrates, Amino acids, Rf Value.