**RESEARCH & INNOVATION (R&I) CELL**

**Member of Research & Innovation (R&I) Cell**

**Nodal Officer-** Dr. Chanchal Kiran Thakur

**Convener-** Dr. Kavi Bhushan Singh Chauhan

**Faculty members-**Mr. Bhupendra Kumar Yadav

Mr. Dhanesh Sahu

Mr. Beyant Singh

**CSIP Publication Details (2023-2024)**

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| **Name of Faculty** | **Title of paper** | **Author details** | **Journal** | **Year** | **Issue**  **Vol** | **Impact factor** |
| **Dr. Amit Roy (Principal)** | In vitro Enzyme Inhibitory Activity of Volvariella volvacea (Paddy Straw Mushroom) to establish Its Antidiabetic Potential | **Amit Roy**, Pushpa P. Gupta , Shashikant Chandrakar, Poonam Sahu, Neeta Gupta, Akhilesh kumar Sahu, Dhanesh Sahu | Indian Journal of Natural Sciences | Feb / 2024 | Vol.14 / Issue 82 / | **-** |
| **Dr. Pushpa Prasad Gupta** | In-Vitro and In-Vivo Characterization Of Nitric Oxide Scavenging Nanoparticles For Rheumatoid Arthritis | **Pushpa Prasad Gupta**, Bishesar Sahu, Sunil Sahu, Akhilesh Kumar Sahu, Lalita Sandey, Trilok Nath Patel\*, Jhakeshwar Prasad. | Journal of Chemical Health Risks | JCHR (2024) | 14(1), | - |
| In vitro Enzyme Inhibitory Activity of Volvariella volvacea (Paddy Straw Mushroom)to establish Its Antidiabetic Potential | Amit Roy, **Pushpa P. Gupta**\* , Shashikant Chandrakar, Poonam Sahu, Neeta Gupta, Akhilesh kumar Sahu, Dhanesh Sahu | Indian Journal of Natural Sciences | Feb / 2024 | Vol.14 / Issue 82 / | - |
| **Dr. Kavi Bhushan Singh Chouhan** | A Deeper Insight into Research on Piper betel Essential Oil from 1991-2021: A Critical Bibliometric Analysis based Appraisal | Vivekananda Mandal, Souvik Mukherjee, Altamash Khan, Mansi Nathani, Sayani Majhi, Kavi Bhushan Singh Chouhan, Heri Septya Kusuma, Mahaveer Dhobi, Mir Sahidul Ali | Journal of Biotechnology and Bioprocessing | 2024 | Vol. 5/Issue 2 | 2.9 |
| An eco‑extraction protocol based on blended mode microwave hydrodiffusion and gravity (MHG) principle for floral biomass valorisation through simultaneous recovery of volatile and non‑volatile principles: the case of Tagetes erecta | Souvik Mukherjee, **Kavi Bhushan Singh Chouhan**, Altamash Khan, Saurabh Meshram, Sharad Chandra Srivastava, Sinchan Das, Varsha Yadav, Arjun Patra, Vivekananda Mandal | Biomass Conversion and Biorefinery, Springer Nature publications | 2024 | - | 3.5 |
| Decrypting solvent-free microwave as a dual green extraction: studying simultaneous extraction of essential oil and phenolics from the same biomass – valorization and outperforming traditional approaches | Souvik Mukherjee, **Kavi Bhushan Singh Chouhan** and Vivekananda Mandal | Journal of Chemical Technology Biotechnology, Wiley Publications | 2024 | Vol. 99 | 2.8 |
| Amalgamating the research footprints of Prof. Farid Chemat and decoding its essence – A teaching manual on eco-extraction of botanicals | Souvik Mukherjee, Altamash Khan, Anjli Sinha, Kashinath Mahato, **Kavi Bhushan Singh Chouhan**, Vivekananda Mandal | Sustainable Chemistry and Pharmacy, Elsevier Publication | 2023 | Vol.36 | 5.5 |
| **Dr. Chanchal Kiran Thakur** | Ligand conjugated multiwalled carbon nanotubes for cancer targeted drug delivery | **Chanchal Kiran Thakur**, Chandrabose Karthikeyan, Charles R. Ashby Jr, Rabin Neupane, R. Jayachandra Babu, N.S.Hari Narayana Moorthy, Amit K. Tiwari | Frontiers in Pharmacology | 2024 | - | 4.8 |
|  | Chapter 2 - Exploring material and metals for antimicrobial nanocoatings | **Chanchal Kiran Thakur**, Chandrabose Karthikeyan, N.S.Hari Narayana Moorthy | Woodhead Publishing Series in Biomaterials | 2024 | - | - |
| **Mrs. Deepa Thakur** | In-vitro Characterization of Bio-Patch to Hydrogel on Skin Wounds for Efficient Scarless Wound Healing. | Jhakeshwar Prasad, **Deepa Thakur,** Ume Kulsum, Divya Sahu, Manisha Chandrakar, Trilok Nath Patel, Lilima Baghel. | Journal of Chemical Health Risks | 2024 | Vol. 14 (1) | - |
| In-vitro Characterization and Formulation of Silver Nanoparticles for the Treatment of Breast Cancer | **Deepa Thakur**, Swarna Lichika Satman, Anju Mishra, Trilok Nath Patel, Kamal Bareth, Samrin Saddam Husain, Jhakeshwar Prasad | Journal of Chemical Health Risks | 2024 | Vol.15 (4) | - |
| Therapeutic Potential of Hydrogel Based Sodium Alginate and Chitosan as A Multifunctional drug Delivery System for Atopic Dermatitis | Kiran Singh, Mahendra Kumar Sahu, **Deepa Thakur**, Ume Kulsum, Lilima Baghel, Surabhi Sahu, Jhakeshwar Prasad | Journal of Chemical Health Risks | 2024 | 14 (1) | - |
| **Mrs. Ume Kulsum** | In-vitro Characterization of Bio-Patch to Hydrogel on Skin Wounds for Efficient Scarless Wound Healing. | Jhakeshwar Prasad, Deepa Thakur**,** **Ume Kulsum**, Divya Sahu, Manisha Chandrakar, Trilok Nath Patel, Lilima Baghel. | Journal of Chemical Health Risks | 2024 | Vol. 14 (1) | - |
| Therapeutic Potential of Hydrogel Based Sodium Alginate and Chitosan as A Multifunctional drug Delivery System for Atopic Dermatitis | Kiran Singh, Mahendra Kumar Sahu, Deepa Thakur, **Ume Kulsum**, Lilima Baghel, Surabhi Sahu, Jhakeshwar Prasad | Journal of Chemical Health Risks | 2024 | 14 (1) | - |
| **Mr. Akhilesh Kumar Sahu** | In-Vitro and In-Vivo Characterization of Hyaluronic Acid Composite Gel with Anti-Inflammatory Activity for Infected Wound Healing | Pratibha Sahu, Rinkee Verma, Kiran Singh, Chandrika Ahirwal, Geetanjali Sahu, **Akhilesh Kumar Sahu**, Jhakeshwar Prasad\* | Journal of Chemical Health Risks | JCHR (2024) | 14(1), | - |
| In-Vitro and In-Vivo Characterization of Nitric Oxide Scavenging Nanoparticles For Rheumatoid Arthritis | Pushpa Prasad Gupta, Bishesar Sahu, Sunil Sahu, **Akhilesh Kumar Sahu**, Lalita Sandey, Trilok Nath Patel\*, Jhakeshwar Prasad. | Journal of Chemical Health Risks | JCHR (2024) | 14(1), | - |
| In vitro Enzyme Inhibitory Activity of Volvariella volvacea (Paddy Straw Mushroom) to establish Its Antidiabetic Potential | Amit Roy, Pushpa P. Gupta, Shashikant Chandrakar, Poonam Sahu, Neeta Gupta, **Akhilesh kumar Sahu**, Dhanesh Sahu | Indian Journal of Natural Sciences | Feb / 2024 | Vol.14 / Issue 82 | - |
| Experimental Animal Models for Influenza / Flu Virus Vaccine Development | Ayushi Gupta\*, Trilochan Satapathy, Bharti Pradhan, Kalpana Sen, Shailesh Sahu, **Akhilesh Kumar Sahu**, Shiv Kumar Bhardwaj, Md. Altaf Khan. | Journal of Drug Delivery and Therapeutics | 15 Feb 2024; | 14(2) | - |
| **Mr. Bishesar Sahu** | An overview of Formulation and Evaluation of Herbal cold cream | Bishesar Sahu et al | IJPS | 2024 | 6(2) | 4.7 |
| Development and Characterization of Pioglitazone Hydrochloride Loaded Nanoparticles for the management of Diabetes Mellitus | Bishesar Sahu et al | RJPT | 2024 | 17(4) | 0.27 |
| In-vitro and In-vivo characterization of Nitric oxide scavenging nanoparticles for rheumatoid arthritis | Bishesar Sahu et al | JCHR | 2024 | 14(1) | 0.172 |
| **Mr. Dhanesh Kumar Sahu** | Dhanesh Kumar *et al* | In Vitro enzyme inhibitory activity of *volvariella volvacea* (Paddy straw mushroom) to establish its antidiabetic potential | Indian journal of natural science | 2024 | Vol: 14  Issue: 82 | - |
| In vitro Enzyme Inhibitory Activity of Volvariella volvacea (Paddy Straw Mushroom) to establish Its Antidiabetic Potential | Amit Roy, Pushpa P. Gupta, Shashikant Chandrakar, Poonam Sahu, Neeta Gupta, Akhilesh kumar Sahu, **Dhanesh Sahu** | Indian Journal of Natural Sciences | Feb / 2024 | Vol.14 / Issue 82 | - |
| Safety And Efficacy of Covid–19 Vaccines Along with Their Consequences in Cardiovascular and Liver Patient | Upasana Singh and **Dhanesh Kumar** | European Journal of Biomedical and Pharmaceutical Sciences | 2023 | 10 | - |
| **Ms. Chetna Singh Thakur** | Diabetes Insipidus Can Increase Patient Security: A Review | Alka Sen, Farhat Khan, **Chetna Singh Thakur** | International Journal for multidisciplinary Research (IJFMR) | 2024 | 6 (1) | - |

**CSIP Publication Details (2024-2025)**

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| **Name of Faculty** | **Title of paper** | **Author details** | **Journal** | **Year** | **Issue**  **Vol** | **Impact factor** |
| **Dr. Kavi Bhushan Singh Chouhan** | An eco-extraction procedure for solvent free extraction of plant phenolics using microwave hydro diffusion and gravity (MHG) model | Anjli Sinha, Souvik Mukherjee Altamash Khan, **Kavi Bhushan Singh Chouhan,** Apoorva Dwivedi, Riya Pal, Arjun Patra, Kashinath Mahato, Vivekananda Mandal | Food and Humanity | 2025 | Vol. 4 | - |
| **Mr. Bhupendra Kumar Yadav** | Formulation, Characterization, and Assessment of The Hepatoprotective and Toxicity Effects of Eudragit Nanoparticles Loaded with Silymarin | Gomathi Periyasamy, Yachita Jokhi, Vijay Sharma, Srilakshmi CH, Pratibha Kumari, Poonam Subhash Sable, **Bhupendra Kumar Yadav**, V Geetha, Patel Zankruti, Mohammad Intakhab Alam | Journal of Neonatal Surgery | 2025 | Vol.14/Issue 13 | 0.17 |
| In Vitro Assessment of Antimicrobial and Antioxidant Properties of Glycyrrhiza Glabra Juice Powder | Gajanand Pujari, Nagalaxmi, T. Deborah Paripuranam3, **Bhupendra Kumar Yadav**, Farah Deeba, Pritam Gokuldas Bhore, Pooja and Prakriti Diwan Upadhyay | J. Exp. Zool. India | 2025 | Vol. 24 | - |
| **Mr. Dhanesh Kumar** | Transferosome as Nanocarrier for Drug Penetration Enhancement Across Skin: A Comparison with Liposome and Ethosome | [**Dhanesh Kumar**](https://www.benthamdirect.com/search?value1=Dhanesh+Kumar&option1=author&noRedirect=true&sortField=prism_publicationDate&sortDescending=true), [Sanjay Kumar Gupta](https://www.benthamdirect.com/search?value1=Sanjay+Kumar+Gupta&option1=author&noRedirect=true&sortField=prism_publicationDate&sortDescending=true), [Astha Verma](https://www.benthamdirect.com/search?value1=Astha+Verma&option1=author&noRedirect=true&sortField=prism_publicationDate&sortDescending=true) and [Ajazuddin](https://www.benthamdirect.com/search?value1=Ajazuddin&option1=author&noRedirect=true&sortField=prism_publicationDate&sortDescending=true) | Current nanomedicine | 2025 | 15 | 1.7 |
| **Ms. Ruchi Tamboli** | Antibacterial Activity of Compound Isolated from Calatropis Gigantea L. Flower against four Important Bacteria in Public Health | Mahendra Verma, Kailash Kumar Sahoo, **Ruchi Tamboli**, Devraj Verma | Technische Sicherheit | 2025 | Volume 25, Issue 4 | - |