

# **PharmEssence**

# e-Newsletter of the Department of Pharmacy Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)

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# Workshop on Skill Initiative and Entrepreneurship Opportunity

The Department of Pharmacy, Ghasidas Vishwavidyalaya, Bilaspur, celebrated National Pharmacy Week under the aegis of Swavalambi Chhattisgarh, the APTI Women's Forum Central Zone, and the Women Study Centre of GGV and organised a workshop on the topic "Skill initiative and entrepreneurship opportunity in the field of herbal cosmetics and herbal products" on November 25, 2022. Prof. Bharti Ahirwar was the convener of this workshop. Around 200 candidates participated in this workshop.

# **Pharmacy Week Celebration**

The Department of Pharmacy, GGV, celebrated National Pharmacy Week during

November 23–26, 2022, on the theme "India as Pharmacy of the World". During the inaugural ceremony, the chairman of the function, the Hon'ble Vice Chancellor, appreciated the service rendered by pharmacists during COVID time and emphasised the ample opportunities available for Pharmacy students. The Honble VC inspired the Pharmacy students to become Entrepreneurs.



Prof. Neelambri Dabe, Former Chancellor, Saurastra University, Rajkot, encouraged the student to preserve the traditional Indian knowledge of herbal medicines. Prof. SS Singh, Dean of the School of Studies in Natural Resources, GGV, Prof. VD Rangari, Prof. Bharti Ahirwar, and all the faculty members and students were present. Prof. Aditya Trivedi, Principal, Sanjivini College of Pharmacy, Bilaspur; Prof. Shruti Rathore, Principal, LCIT College of Pharmacy, Bilaspur; and Prof. Sweeti Lanjhiyana, Chouksey College of Pharmacy, delivered the talk on the theme of Pharmacy Week and interacted with students. The student Pharma rally was inaugurated by Prof. Nilambari Dave, former Vice Chancellor Saurashtra University, Rajkot, Gujrat, in the presence of Prof. S.S. Singh Dean, Dr. Bharati Ahirwar HoD, and all the faculty members and staff of the Department of Pharmacy. During Pharmacy Week, various competitions, i.e., Quiz, Rangoli, Poster, and extempore, were organised. Students also displayed food items prepared by them to spread healthy food habits in society. The aim of this Pharmacy Week celebration was to spread the message among patients about the proper use of medicines and raise awareness about their side effects.

## Glimpses of the Pharmacy Week Celebration



Inauguration of Pharma-Rally by Prof. Neelambari Dave



Hon'ble Vice-Chancellor with faculty members during Pharmacy Week Celebration



Lecture delivered by Dr. Aditya Trivedi, CEO, Lavanya Health Care, Bilaspur



Prof. Anupama Saxena visited student Food Corner



A Rangoli Prepared by Students

#### **Patent Granted**

A German Patent (**Patent No. A61K9/10**) was granted to Dr. Alpana Ram on the topic "A Solid dispersion of an antifungal drug in Gel formulation for improving bioavailability'.

#### **Patent Published**

Dr. Meenakshi Jaiwal, Assistant Professor, filed and published an Indian Patent entitled "Herbal composition for inflammatory disorders." The patent number is 202211070193 A and was published on December 16, 2022.

#### **Books Published**

Meenakshi Jaiswal and Sanjay K. Lanjhiyana. Current overview on colon specific drug delivery. BP International, First edition 2022. doi: 10.9734/bpi/mono/978-93-5547-993-8. Print ISBN: 978-93-5547-993-8, eBook ISBN: 978-93-5547-994-5.

Meenakshi Jaiswal and Sanjay K. Lanjhiyana. Technology innovations in colon targeted drug delivery systems, BP International. First edition 2022. doi: 10.9734/bpi/mono/978-93-5547-995-2 Print ISBN: 978-93-5547-996-9.

Akhlesh K Jain, Keerti Mishra. Nanoparticles and nanocarriers based pharmaceutical formulations. First edition, 2022, Bentham Science Publication. doi: 10.2174/97898150497871220101.

### **Book Chapters Published**

Meenakshi Jaiswal, Nidhi Agrawal, Yogendra Kumar and Sanjay K. Lanjhiyana. In vivo models of chemically induced colitis for inflammatory bowel diseases: An overview. Chapter 10, Challenges and Advances in Pharmaceutical Research, B P International, 2022,10, pp. 141-149. doi: 10.9734/bpi/capr/v10/4802A

Nidhi Agrawal, Meenakshi Jaiswal and Sanjay K. Lanjhiyana. A review study on screening of non-steroidal antiinflammatory drug using experimental animal models for inflammatory diseases. BP International, Current Overview on Pharmaceutical Research. 2022, 10, pp. 28-32.doi: 10.9734/bpi/cops/v2/4851A.

Sunil K. Jain, Kuldeep Rajpoot, K. Kesavan, Awesh Yadav, Umesh Gupta and Prem N. Gupta, Targeting potential of nanocarriers for efficient treatment of H. pylori infection, In: Nanoparticles and Nanocarriers Based Pharmaceutical Formulations, Edited by A K Jain, Kirti Mishra, Chapter 6, First Edition, Bentham Science Publication, 2022, pp. 158-177. doi: 10.2174/97898150497871220101.

Kuldeep Rajpoot, Sunil K. Jain and Saroj Dangi Rajpoot. Gastro-retentive nanocarriers in drug delivery, Nanoparticles and Nanocarriers Based Pharmaceutical Formulations, Edited by A K Jain, Kirti Mishra, Chapter 7, First Edition, Bentham Science Publication, 2022, pp.176-197. doi: 10.2174/97898150497871220101.

K. Kesavan, P. Mohan, Sunil K Jain, Olivia ParraMarín and Selvasankar Murugesan. Nanoemulsion: A potential carrier for topical drug delivery, In: Nanoparticles and Nanocarriers Based Pharmaceutical Formulations, Edited by A K Jain, Kirti Mishra, Chapter 9, First Edition, Bentham Science Publication, 2022, pp.232-274. doi: 10.2174/97898150497871220101.

K. Kesavan, N Gautam, O Parra-Marín, S Murugesan. Gene Therapy: A New Avenue for the Management of Ophthalmic Diseases. In: Nanoparticles and Nanocarriers Based Pharmaceutical Formulations, Edited by A K Jain, Kirti Mishra, Chapter 9, First Edition, Bentham Science Publication, 2022, pp.395-435. doi: 10.2174/97898150497871220101.

Kedar Prasad Meena, Pradeep Kumar Samal, Pathophysiology, Treatment and Management of Obesity, In: Perspective of Recent Advances in Medical Research 2022, 1, pp. 1-19. doi: 10.9734/bpi/pramr/v1/4319E

Vivek Shrivastava, Bhavisha Patel, Akhilesh K lain. Biological approaches to nanoparticles synthesis and their applications in the development of herbal formulations, In Akhlesh K Jain, Keerti Mishra Ed. Nanoparticles and Nanocarriers Based Pharmaceutical Formulations, 2022, First Edition, Bentham Science Publishers. pp. 436-448. doi: 10.2174/97898150497871220101.

CC Kander and Dilipkumar Pal, Medicinal plants in treatment of Influenza virus A infections: Role of secondary metabolites, clinical and preclinical studies and future perspectives, in Reference Series in Phytochemistry. Anti-Viral Metabolites from Medicinal Plants edited by Prof Dilipkumar Pal, Springer, e-Book, ISBN No: 978-3-030-83350-3.

N Sachan, P Chandra, Shivan, Dilipkumar Pal. Indigenous plants against Cytomegalovirus, Cytomegalovirus B1 and Epstein-Barr virus infection: Phytochemical, clinical and preclinical studies and the prevalence and impact on patients with haematological diseases, in Reference series in Phytochemistry. Antiviral metabolites from medicinal plants edited by Prof. Dilipkumar Pal, Springer, e-Book, ISBN No: 978-3-030-83350-3.

Dilipkumar Pal and Khusboo Raj, Pox virus and the role of medicinal plants in controlling infections: Ethnopharmacology, chemistry, clinical, preclinical studies and future perspectives, in Reference Series in Phytochemistry. Anti-viral metabolites from medicinal plants edited by Prof. Dilipkumar Pal, Springer, e-Book, ISBN No: 978-3-030-83350-3.

P Chandra, N Sachan, A K Patel, Dilipkumar Pal, Traditional crude drugs against Encephalitis infection: Ethnopharmacology, chemistry, clinical and preclinical studies, in Reference Series in Phytochemistry. Anti-viral metabolites from medicinal plants edited by Prof. Dilipkumar Pal, Springer, e-Book, ISBN No: 978-3-030-83350-3.

P Chandra, N Sachan, R K Pathak, Dilipkumar Pal, Medicinal plants against vesicular stomatitis virus (VSV) infections: Ethnopharmacology, chemistry, clinical and preclinical studies, in Reference Series in Phytochemistry. Anti-viral metabolites from medicinal plants edited by Prof. Dilipkumar Pal, Springer, e-Book, ISBN No: 978-3-030-83350-3.

# **Research Papers Published**

Faculty members have published several research papers in reputable national and international Journals. The details of the publications are as follows:

Akhlesh K. Jain, R. Upadhyay, Keerti Mishra, Sunil K. Jain. Gastroretentive Metformin Loaded Nanoparticles for the Effective Management of Type-2 Diabetes Mellitus. Current Drug Delivery, 2022, 19(1), pp. 19–103. doi:

10.2174/1567201818666210614095159 (Impact factor: 3.75)

Raziya Khatoon Farooqui , Monika Kaurav , Manoj Kumar, MS Sudheesh, Ravi Shankar Pandey. Permeation enhancer nanovesicles mediated topical delivery of curcumin for the treatment of hyperpigmentation. Journal of Liposome Research 2022, 32(4), 332-339.

10.1080/08982104.2021.2024567.

(Impact Factor: 5.58)

Suvadeep Maal, Udita Malik, Monalisa Mahapatra,, Abhishek Mishra, Dilipkumar Pal, Sudhir K Paidesetty. A Review on synthetic strategy, molecular pharmacology of Indazole derivatives, and their future perspective. Drug Development Research, 2022, 83, 1469-1504. doi: 10.1002/ddr.21979 (Impact factor: 5.02).

M Hait, Dilipkumar Pal, In-vitro antibacterial and antifungal activity of Curcuma amada roxb. against human pathogens. Trends in Sciences, 2022, 19(22), 4839. doi: 10.48048/tis.2022.4839

Dilipkumar Pal, Pooja Sahu, Gautam Sethi, Carly E Wallace and Anupam Bishayee. Gossypol and its Natural Derivatives: Multitargetted phytochemicals as potential drug candidates for oncologic diseases. Pharmaceutics (MDPI) 2022, 14, 2624-2649. doi: 10.3390/pharmaceutics14122624 (Impact factor: 6.62)

Nidhi Agrawal and Meenakshi Jaiswal. Bioavaibility enhancement of curcumin via esterification processes: A review. European Journal of Medicinal Chemistry Reports, 2022, 6, 1000081. doi: 10.1016/j.ejmcr.2022.100081

Sanjay K Lanjhiyana and Meenakshi Jaiswal. Development abd characterization of dual crosslinked microbeads for colon specific targeting; release kinetics modelling and gamma scintigraphy studies. Asian Journal of Pharmaceutics, 2022,16 (4), 585. https://doi.org/10.22377/ajp.v10i04. (Impact factor: 0.460)

Rashmi Madhariya, Bhupendra Dixena, Alpana Ram, Amber Vyas, Akhlesh K. Jain. Experimental animal models: Tools to investigate antidiabetic activity. Current Pharmaceutical Design 2023, 29, 79-94. doi

ttps://doi.org/10.2174/13816128296662 21220115649 (Impact factor: 3.31)

# **Invited Lecture Delivered by Faculty**

Dr. Sunil K. Jain, delivered an invited talk on the topic "Role of Nanodevices for treatment of certain infectious diseases" in the DBT sponsored national conference organized by Columbia Institute of Pharmacy, Raipur on Oct 17, 2022.

# Nomination of Faculty in University Committees

Dr. Sunil K Jain, Associate Professor nominated as member of Proctorial Board of Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) to ensure that rules and regulation framed by Vishwavidyalaya are being followed by the students.

## **Award Received by Faculty**

Prof. Dilipkumar Pal received APTI-Prof LV Nargund Research Excellence award in Pharmaceutical Chemistry in Association of Pharmacy Teachers of India Conference (APTICON), Mysore on Sep 02, 2022. Prof Pal also received Guru Ghasidas University Best Teacher Award with commendation medal during Guru Ghasidas Jayanti celebration on Dec 18, 2022.

Dr. Akhilesh Jain received best paper award from Guru Ghasidas University on Dec 18, 2022 during Guru Ghasidas Jayanti celebration for paper with following details: In-vitro and in vivo characterization pharmaceutical of nanocarriers used for drug delivery. nanomedicine, Artificial cells, and biotechnology 2019, 47, 524-539.