

Prof DR Bharat Mishra, M.Pharm, Ph.D, FICS
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My objective is to develop in the field of Pharmacy education where my caliber is endorsed to become a valuable team member, contributing quality ideas, experiences, and knowledge for an organization where there is ample scope for individual's competencies as well as organizational growth.

- *Having more than 15 years of teaching Experience in pharmaceutical education.*
- *Have worked in College of Medicine, School of Pharmacy, University of Gondar, Gondar, Ethiopia, Africa. (Under United Nation Development Program) and handled the Master programs in Pharmacy and Nursing.*
- *Experienced in internal institutional audit, process development & improvement, system development, progression & transformation, Quality assessment and improvement, maximum utilization of resources, value addition, root cause analysis, research mindset, DMAIC, Bloom Taxonomy, and overall institutional development.*
- *Proficient in preclinical research, Toxicological research, animal house maintenance, handling sophisticated instrument, pharmacological screening models and their modifications, scientific writing and molecular cell signalling mechanisms.*
- *I have always been active in preparing my students for future challenges by imparting an understanding of research and scientific writing, responsibility bearing capacities, Improvement in communication skills, Interpersonal skills, Presentation skills, Leadership qualities, Personality inputs, Soft skills.*
- *Published 57 quality research articles and 24, Conference Proceedings in international and national journals, 03 books & 03 International Book Chapters in CRC Press: Taylor & Francis Group, USA & Nova Science Publishers, Inc.-USA.*
- *Contributing to the scientific publication (More than 25) as editorial board member and reviewer for the peer-reviewed/ Indexed International & National Journals including the Editor-in-chief for the International Journal of Healthcare and Biological Science.*
- *Attended 12 FDP/QIP and 41 conferences/seminars also presented 11 papers in different forums in national and international level.*
- *Involved in teaching for master courses, M. Pharm, Pharm D and M.Sc. Nursing (surgery & Paediatrics), as well as bachelor courses, B. Pharm and MBBS.*
- *Established as a positive & proactive leader and earned respect among faculty, administration, students & parents.*
- *Skilled in Motivational classes for Carrier counselling, Stress management, Mental conditioning, Body language, Triple T management etc. delivered at International & National forums.*
- *Honoured for being, the invited resource persons (32 times) on various National and international conferences, Seminars, Webinars and academic duties at various universities.*
- *Total Student Projects Handled:44*
- *Acted as coordinator for National Board of Accreditations in Nirmala College of Pharmacy-2017-18.*
- *Acting as Director of Internal Quality Audit Cell and Head Research & Development Cell.*
- *Received grants from the government for various events. [170,000/ so far from SERB, DBT & KSCSTE]*

CITATION MATRIX (as on February 01, 2021)

- **Cumulative impact factor (SJR+JCR): 19.308**
- **Google scholar Citations: 127**
- **Google scholar h - Index: 6**
- **Google scholar i10 index: 5**
- **Google scholar web link: <https://scholar.google.co.in/citations?user=bl2fhPwAAAAJ&hl=en>**
- **ORCID : 0000-0001-8761-3499**

<https://orcid.org/0000-0001-8761-3499>, <https://orcid.org/my-orcid>

□ **Web of Science Researcher ID: AAO-7190-2020**,

<https://publons.com/researcher/1689075/bharat-mishra/peer-review/>

□ **Scopus Id: 51061371400**

<https://orcid.scopusfeedback.com/#/start>

□ **RG Score: 10.18**

□ **RG Reads: 4453**

□ **RG Citations: 101**

https://www.researchgate.net/profile/Bharat_Mishra9/scores



ORCID

□ Total No of SCOPUS Indexed publications: 12 (current 09

<https://www.scopus.com/authid/detail.uri?authorId=51061371400>)

□ Total No of Web of Science Indexed publications: 19 (03 in web of science core collection)

SUBJECT HANDLED:

POST GRADUATE (M. Pharm, Pharm. D, MS.c): Advance Neuropharmacology, Advance General Pharmacology, Advance Endocrine Pharmacology, Advanced Toxicology, Advanced Cardiovascular Pharmacology, Advanced Experimental pharmacology.

UNDERGRADUATE (B. Pharm, MBBS): General Pharmacology, Cardiovascular, Toxicology, Endocrine Pharmacology, Neuropharmacology, Molecular pharmacology and cell signalling (Pharmacology-I, II & Toxicology), Human Anatomy & Physiology, Clinical Pharmacology.

WORK ASSIGNMENTS (as on 19/06/2021)

Organization's name & address	Duration	Designation
Rameshwaram Institute of Technology & Management, Lucknow, UP.	17 August 2021-Till Date	Dean, Professor& HOD
Hygia Institute of pharmaceutical education & research, Lucknow, UP.	01 April 2021- 16 August 2021	Professor & Director-R&D (04 Months)
Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, Kerala.	01 August 2017- 30 March-2021	Professor & HOD (03Year, 7 Month)
Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, Kerala.	01 August 2016- 31 July 2017	Associate Professor & HOD (11 months, 30days)
College of Medicine, School of Pharmacy, University of Gondar, Gondar, Ethiopia, Africa. (Under United Nation Development Program)	15 october-2014- 30 July-2016	Assistant Professor (1 year, 9 months, 15days)
United institute of pharmacy, Allahabad, India	04- Aug 2014- 30 sep 2014	Associate professor (1 month, 26 days)
Nootan Pharmacy college, Visnagar, Gujarat, India	15April 2011-2 Aug 2014	Associate Professor (3 years, 3 months, 2 weeks, 03 days)
Nootan Pharmacy college, Visnagar, Gujarat, India	From 16- March 2010-14 April 2011	Assistant Professor (1 years, 4 weeks)
Shri Krishna Institute of Pharmacy, Bhechraji, Mehasana North Gujarat, India	10Aug.2008 – 15 March 2010	Lecturer (1 year, 7 months, 5 days)
Rameshwaram Institute of Technology & Management, Lucknow, UP, India	1 Mar 2007 – 31 July 2008	Lecturer (1 year, 4 months, 4 weeks, 2 days)
Agra public Institute of tech. & Comp.Edu. Artoni, Agra, UP, India	15 Aug 2006- 28 Feb 2007	Lecturer (6 months, 1 week, 6 days)
Priyadarshini College of Pharmacy, Koratgere, Tumkur, Karnataka, India	10 Oct. 2005 – 14 Aug 2006	Lecturer (10 months, 4 days)
Panacea Biotech Ltd., Lucknow, India	Dec 2002-Dec 2003	Trainee Manager (01 year)
Total Experience	Dec 2002- Dec 2003. Oct. 2005-January 2021	17.04Years

ACADEMIC CREDENTIALS

Degree	Institute	Duration	Result
Ph. D (Pharmaceutical science)	Jodhpur National University, Jodhpur Rajasthan, India	2009-2013	Awarded
Master of Pharmacy (Pharmacology)	Sree Sidganga College of Pharmacy, Tumkur R. G. U. H. S Bangalore, Karnataka	2004- 2006	72.28%
Bachelor of Pharmacy	B.B.D. National Institute of Technology & Management. Lucknow (U.P), B. R. Ambedkar University, Agra.	1998- 2002	6.73 (DGPA)
H. S. C.	U.P. Higher Secondary Education Board	March - 1998	59.8%
S. S. C.	U. P. Secondary Education Board	March - 1996	60%

Project Done During M Pharm: Fertility studies of fresh juice of *Raphanus sativus* on experimental animal. (For details please see [Annexure-I](#))

Title of Ph. D thesis: To study the antidiabetic activity of Pioglitazone in combination with extracts of *Gymnema sylvestre* (Gurmar leaves) and *Momordica charantia* (Karela) for development of a novel antidiabetic dose regimen. (For details please see [Annexure-II](#))

Name of the Council: Uttar Pradesh Pharmacy Council
Council Reg. No.: 36554

GUIDESHIP:

- Guiding **PhD Student** for Kerala University of Health Sciences, Thrissur, Kerala, India.
- Guiding **M. Pharm students** for their Research Projects.
- Guiding **B. Pharm students** for their Research Projects.
- Guiding **Pharm D students** for various research projects.

STUDENT SUPERVISED:

PHD THESIS

- Access to essential medicines for non- communicable diseases in pharmacies under public and private sectors in Central Kerala: A comparative cross-sectional study. [Kerala University of Health Sciences, Thrissur, Kerala. (Continue)].
- Investigation of ameliorating effect of selected antioxidants on an experimentally induced diabetic osteopathy.[Amity Institute of Pharmacy, Amity University, Lucknow (Continue)]

M. PHARM THESIS:

As Supervisor:

- Evaluation of In Vitro Antibacterial and In Vivo Wound Healing Activity of *Hibiscus micranthus* Linn. [Department of Pharmacology, School of Pharmacy, College of Medicine and Health Sciences, University of Gondar, Gondar Ethiopia, Africa.]
- Evaluation of Antiulcer Activity of The Leaf Extract of *Osyris Quadripartita* (Santalaceae) In Rats.

[Department of Pharmacology, School of Pharmacy, College of Medicine and Health Sciences, University of Gondar, Gondar Ethiopia, Africa.]

□ Evaluation of The Diuretic Activity of Methanolic Extracts of Clutia Abyssinica (Euphorbiacea) Roots in Wister Albino Rats. [Department of Pharmacology, School of Pharmacy, College of Medicine and Health Sciences, University of Gondar, Gondar Ethiopia, Africa.]

As Co-Supervisor:

□ Development of polyherbal formulation and evaluation for Diabetes management. [Nirmala College of Pharmacy, Muvattupuzha, Kerala]

□ Development and Evaluation of Antidiabetic herbal formulation. [Nirmala College of Pharmacy, Muvattupuzha, Kerala]

□ Development of Nanosized Nutraceutical Formulation for Metabolic Disorders. [Nirmala College of Pharmacy, Muvattupuzha, Kerala]

PHARM.D. PROJECTS:

□ Epidemiological Study on Menstrual Hygiene and Menstrual Irregularities Among Young Health Care Professionals (2019-20).

□ An Epidemiological study on level of awareness and supervision of Oral Health among adults in Muvattupuzha Region, Kerala. (2019-20)

□ Assessment of the pattern, frequency & outcome of prescription on Empagliflozin in combination with Linagliptin: A survey-based study. (2019-20)

□ An Epidemiological study to investigate the impact of carcinogenic chemical use among cardamom farmers and the prevalence of cancer in Idukki district, Kerala. (2018-19)

□ Assessment of Neuropsychological Disorders in Pregnant Women In Ernakulam & Idukki District In Kerala: An Epidemiological Study (2018-19)

□ An Epidemiological study to investigate the simultaneous use of synthetic antidiabetic with herbal drugs among type-II diabetics in Ernakulam District, Kerala. (2017-19)

□ To investigate the prevalence and risk factors for self-medication of the population in the Muvattupuzha (Kerala) region. (2017-18)

B. PHARM PROJECTS: (31)

□ Assessment of Anti-inflammatory activity of a formulation prepared with chicken fat & curcumin by in-silico studies against burn wounds on animal models. (2019-20)

□ A preclinical investigation of Celastrus paniculatus and SSRI by using simultaneously in psychological Disorders. (2018-19)

□ Epidemiological Study on Impact of Parenting and Social Disparities on The Mental Health of Children in Urban and Rural Areas of Ernakulam District, Kerala. (2018-19)

□ To investigate the various pharmacological activities of isolated chicken fat by in vitro screening methods and to determine its fatty acid profile by GC-MS analysis. (2017-18)

CONSULTANCY PROJECT:

□ Consultancy project handled from School of Pharmacy, University of Gondar, Gondar, Ethiopia, Africa on 'Toxicological study on different drug samples by Evaluation of In- vitro antitumor activity by MTT cell proliferation assay along with the Determination of Apoptosis by double staining on chromatin condensation against KB & MCF cell line and Assessment of anti-mitotic activity using Allium cepa roots'.

EDITORIAL BOARD MEMBER /ADVISORY BOARD MEMBER/PEER- REVIEWER:

➤ *Journal of Diabetes & Metabolic Disorders. Springer, Nature, UK (SCOPUS, ESCI)*

- *Acta Veterinaria Brno, Journal of the University of Veterinary and Pharmaceutical Sciences in Brno, Czech Republic. (SCOPUS)*
- *Annals of Internal Medicine (The American College of Physicians (ACPOnline.org) (Scopus-Q1-SJR 7.34, JCR-19.315, PUBMED, Elsevier)*
- *Journal of Cardiovascular Pharmacology. (SCOPUS—Q2) publisher-[Lippincott Williams and Wilkins Ltd.](#), Elsevier.*
- *Journal of Pharmaceutical Research and Therapeutics. Saudi Arabia.*
- *Biomedical and Pharmacology Journal (BPJ), Oriental Scientific Publishing Company, Taiwan. (Scopus & UGC indexed.)*
- *International Journal of Pharmaceutical Research. (SCOPUS)*
- *HERBA POLONICA, Poland. (SCOPUS)*
- *Egyptian Pharmaceutical Journal, Egypt, (SCOPUS)*
- *International Journal of Research in Pharmacy and Pharmaceutical Sciences. (PUBMED)*
- *Journal of Experimental Sciences, TathQeef Scientific Publishing, UAE.*
- *World Journal of Pharmaceutical Research, Medical University, Bulgaria.*
- *Journal of Experimental Pharmacology of Dove Medical Press journals. Dove Medical Press Ltd, United Kingdom. (Scopus, PUBMED, Elsevier)*
- *European Journal of Biomedical and Pharmaceutical Sciences.*
- *Saudi Pharmaceutical Journal (SPJ). King Saud University, Saudi Arabia. (Scopus, Elsevier Indexed.)*
- *European Journal of Pharmaceutical and Medical Research (Ejpmr).*
- *Journal Integrated Pharmacy Research and Practice of Dove Medical Press journals. Dove Medical Press Ltd, United Kingdom. (PUBMED)*
- *Journal of Pharmaceutical Research and Therapeutics (JPRT)-[KSA]*
- *Journal of Pharmacological Research and Developments. [MAT]*
- *Journal of Clinical/Pharmaco-Epidemiology Research. [MAT]*
- *Journal of Molecular Pharmaceuticals and Regulatory Affairs. [MAT]*
- *Asian Journal of Hospital Pharmacy. [SAAP]*
- *International Journal of Innovative Medicine and Health Science (IJIMHS) [Whites Science Journal, UK.]*
- *Journal of Advancement in Pharmacology. [CR Journals].*
- *SERBD International journal of multidisciplinary sciences.*
- *International Journal of Pharmaceutical Research and Innovation.*

Editor-in-Chief: International Journal of Healthcare and Biological Science

<https://www.saaapbooks.com/journals/index.php/ijhcb/>

PRE-CLINICAL/IN-VITRO/IN-SILICO AND SURGICAL SKILLS:

- Performed the burn wound healing activities on rodents to test various formulations.
- Practised in In-silico and Molecular docking studies for the prediction of activity spectra for substance and affinity probabilities of any compound by using Chem sketch, PAAS online software and Autodock Vina Program in PyRx software.
- Practised in In-vitro screening models for Anti-inflammatory, antidiabetics, muscle relaxation and contraction and antibacterial.
- Expert on preclinical testing of drugs acting on Nervous system for their Antianxiety, antidepressant, and memory enhancement effects by using the maze models as Elevated Plus Maze, Radial Arm Maze, Y maze, T maze, Forced swim test & Tail suspension methods.
- Good at animal handling (Rats, Mice, Guinea-pig).
- Good practice of different dosing routes (oral, i.p., i.m., s.c., i.v.) and Blood collection Techniques (sub-lingual, facial vein, tail-vein, intracardiac and retro-orbital).

- Perform chronic renal failure induced anaemia by 5/6 Nephrectomy in the rat.
- Various isolated tissue studies (ileum, anococcygeus muscle, uterus, vas deference, fundus strip, aortic strip and trachea).
- Temporary and permanent canulation of small blood vessels (Jugular vein, femoral vein, femoral artery, carotid artery, portal vein, abdominal aorta, tail artery etc in rodents).
- Development and standardization of animal model for anti-ulcer (pyloric ligation model, stress-induced ulcer model, ethanol-induced ulcer model), anti-inflammatory, Antimalarials, wound healing, analgesic, anti-anxiety, antidiuretics, anti-infectives, wound healing, and antidepressant.
- Development and standardization of STZ and Alloxan induced Diabetes mellitus (Type I &II) in the rat.
- Development and standardization of animal model for Anti-fertility activity in rats (male and female fertility).
- Organ isolation for toxicity studies as liver, kidney, thoracic aorta, testis, ovary, heart and brain in rodents.
- Reproductive and Developmental toxicities in rat/mice pups.

INSTRUMENTS HANDLED:

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| ➤ Analgesiometer-Hot Plate | ➤ Digital Rotarod |
| ➤ Analgesiometer-Tail Flick | ➤ Student Physiograph (Orchid) |
| ➤ Infrared Spectrophotometer | ➤ Elevated Plus Maze |
| ➤ Plethysmometer | ➤ ‘Y’ Maze |
| ➤ Photoactometer | ➤ ‘T’ Maze |
| ➤ Convulsiometer | ➤ Radial Arm Maze |
| ➤ Langendorff Apparatus | |
| ➤ Semi Autoanalyser [ERBA Mannheim, Germany] | |

ACCOMPLISHMENT

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- Organized an ‘Oral health checkup and awareness camp on 27th of September in Nirmala college of pharmacy, Muvattupuzha in association with Anoor Dental College, Muvattupuzha, kerala.
 - Established the animal house at Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, Kerala.
 - Compiled and got approved and implemented the research guidelines and guidelines for thesis writing for B. Pharm in Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, Kerala.
 - Compiled and got approved and implemented the guidelines for Animal House and SOPs in Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, Kerala.
 - Framed the structure and functioning of Internal Quality Audit Cell (IQAC) in Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, Kerala.
 - Framed the structure and functioning of the Program Assessment Committee (PAC) in Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, Kerala.
 - Solely compiled and got approved and implemented the research guidelines and guidelines for thesis writing for M. Pharm in the department of pharmacology, School of Pharmacy. The University of Gondar, Ethiopia, Africa.
 - Compiled the Guidelines and SOPs for the animal house in the department of pharmacology, School of Pharmacy. The University of Gondar, Ethiopia, Africa.
 - Maintained the animal house and trained the animal house staff in United Institute of Pharmacy, Naini Allahabad and Department of Pharmacology, School of Pharmacy. The University of Gondar, Ethiopia, Africa.
 - Established the animal house at Shri Krishna Institute of Pharmacy, Bhechraji, Mehasana North Gujarat and served as a member secretary in IAEC.
 - Involved in the constitution of Institutional Animal Ethical Committee (IAEC) and served as a member secretary in Shri Krishna Institute of Pharmacy, Bhechraji, Mehasana North Gujarat and in the department of pharmacology, School of Pharmacy. The University of Gondar, Ethiopia, Africa.

MEMBERSHIP/FELLOWSHIP/AFFILIATIONS

- FELLOW MEMBER OF INDIAN CHEMICAL SOCIETY (FICS) [FELLOWSHIP NUMBER: F/7744(LM)] FOR LIFETIME.
- LIFE MEMBER OF BRITISH SOCIETY FOR ANTIMICROBIAL CHEMOTHERAPY.
- LIFE MEMBER OF ASSOCIATION OF PHARMACY PROFESSIONAL(APP)[APP/INT/LM-134/15]
- LIFE MEMBER OF INTERNATIONAL SOCIETY FOR INFECTIOUS DISEASES(ISID)

PUBLICATIONS (as on 01.8.2021)

* SJR (SCOPUS: Scimago Journal Ranking)

*JCR (SCI. ESCI: Web of Science: Thomson Reuters citation: Clarivate Analytics)

1. Elezabeth John, **Bharat Mishra**, Alok Shiomurti Tripathi, R. Aleesha. Protective effect of *Celastrus paniculatus* on cognitive function in glutamate-induced brain-injured mice by reducing the intracellular influx of Ca⁺. International Journal of Developmental Neuroscience. <https://doi.org/10.1002/jdn.10182>. <https://onlinelibrary.wiley.com/doi/10.1002/jdn.10182>. [(SCOPUS) SJR; Q3;0.76]
2. Anit Joji George, Fels Saju and Bharat Mishra. Novel Perceptions on Anticancer Activity of Bromelain. Indian Journal of Natural Sciences. Vol.12 / Issue 69 / December / 2021. ISSN: 0976 – 0997. 36898-36903. **Web of Science**: Thomson Reuters citation: Zoological Record).
3. **Bharat Mishra**, David Banji, Kamal Saju, Johnson V. Babu, Delphina V Joseph, G.V Nagaraju, 2021. “The impact of parenting & social disparities in psychological distress among adolescents”. Jour. of Med. P’ceutical & Allied. Sci. V 10 - I 5, 1595, P- 3707-3712. doi: 10.22270/jmpas.V10I5.1595. Please visit https://jmpas.com/home/track_article [(SCOPUS)
4. Sojan C, **Mishra B*** And Bosco Ann. The Effect of Host Genetics on The Second Genome: The Gut Microbiota. International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS). August, 2021, 10(8): 2794-2804. <https://doi.org/10.31032/IJBPAS/2021/10.8.5592>. https://ijbpas.com/pdf/2021/August/MS_IJBPAS_2021_5592.pdf. Web of Science: Thomson Reuters citation: Zoological Record). <https://mjl.clarivate.com/search-results>
5. Therese Mathew*, Dr. Badmanaban. Aby Paul, **Dr. Bharat Mishra**. A Review on Deadly Nipah Virus - Prevalence and its Management. Research J. Pharm. and Tech. 14(4):2302-2307. April 2021. DOI: 10.52711/0974-360X.2021.00407. [(SCOPUS) SJR; Q3;0.23] <https://rjptonline.org/AbstractView.aspx?PID=2021-14-4-83> <https://www.scimagojr.com/journalsearch.php?q=21100197160&tip=sid&clean=0>
6. Aneeta Jeeson and **Bharat Mishra***. Interest of Alzheimer’s Gene ApoE ε4 in the Progression of COVID to Severity: A Genetic Intervention Review. Indian Journal of Natural Sciences. Vol.12 / Issue 65 / April / 2021. **Web of Science**: Thomson Reuters citation: Zoological Record). <https://tnsroindia.org.in/JOURNAL/issue65/ISSUE%2065%20FULL%20TEXT%20-%20Part%2003.pdf>
7. Martin BabyJohn, **Bharat Mishra***, Krupamol Joy. Concomitant administration of syzgium jambolanum with oral antihyperglycemic agents leaf extract in type 2 diabetes mellitus. Indian Journal of Natural Sciences. Vol.12 / Issue 66 / June / 2021. ISSN: 0976 – 0997 .Web of Science: Thomson Reuters citation:ZoologicalRecord).<https://tnsroindia.org.in/JOURNAL/issue65/ISSUE%2065%20FULL%20TEXT%20-%20Part%2003.pdf>
8. Alwin Anto, **Bharat Mishra***, Simi Grace Joseph. Epidemiological Study On Menstrual Irregularities Among Young Health Care Professionals. Bulletin of Environment, Pharmacology and Life Sciences . Bull. Env. Pharmacol. Life Sci., Vol 10 [2] January 2021 : 55-59 SSN 2277-1808 .**Web of Science**: Thomson Reuters citation: Zoological Record).http://www.beppls.com/jan_2021/8.pdf.

9. **Bharat Mishra***, Dona Johnson. 'The Impact of Carcinogenic Chemical Use Among Cardamom Farmers and The Prevalence of Cancer in Idukki District, Kerala'. International Journal of Pharmaceutical Sciences and Research (IJPSR). Page No: 2884-2891. Vol. 12, Issue 5; May 202). ISSN (Online): 0975-8232, ISSN (Print): 2320-5148. [Web of Science - Emerging Sources Citation Index] <https://ijpsr.com/bft-article/the-impact-of-carcinogenic-chemical-use-among-cardamom-farmers-and-the-prevalence-of-cancer-in-idukki-district-kerala/>
10. Sapna Mishra, Johnson V. Babu, **Bharat Mishra***. Behavioural and Mental Wellbeing of Children during Pandemic: The Parent's Perspective. Journal of Communication, Politics & Society. Vol4, issue1. December 2020. 2581-6700. <http://composjournal.com/currentissue/Current%20PDF%20Vol%201%20-%20Issue%204%20December%202020.pdf>
11. **Bharat Mishra**, Anu Sebastian, Chippy Jose, Ceenu Jose, Juvanitta Sabu and Anusha Shaji. Potential Impact of COVID-19 Pandemic on Co-Morbidities. Indian Journal of Natural Sciences. Vol. 11, Issue 63, December 2020, 0976-0997., ISSN:0976-0997. **Web of Science**: Thomson Reuters citation: Zoological Record). <https://mjl.clarivate.com/journal-profile>. <http://tnsroindia.org.in/JOURNAL/issue63/ISSUE%2063%20FULL%20TEXT%20PART%20-%20202.pdf>
12. Alby Manoj, Aleesha R, **Bharat Mishra**, Aiswarya VS, Divya Merine and Nithin Thomas. Potential Upshots of COVID-19 Pandemic on Comorbidities. Indian Journal of Natural Sciences. Vol. 11, Issue 63, December 2020, 0976-0997., ISSN:0976-0997. **Web of Science**: Thomson Reuters citation: Zoological Record). <https://mjl.clarivate.com/journal-profile>. <http://tnsroindia.org.in/JOURNAL/issue63/ISSUE%2063%20FULL%20TEXT%20PART%20-%20202.pdf>
13. Anitta Thomas, **Bharat Mishra***, Elza Baby, Annamol Joshy, Sijin Biju and Aleesha R. Non – Functional Pancreatic Neuroendocrine Tumor: Apperception of Molecular Mechanism and Genetic Intervention. Indian Journal of Natural Sciences. Vol. 11, Issue 63, December 2020, 0976-0997., ISSN:0976-0997. **Web of Science**: Thomson Reuters citation: **Zoological Record**). <https://mjl.clarivate.com/journal-profile>. <http://tnsroindia.org.in/JOURNAL/issue63/ISSUE%2063%20FULL%20TEXT%20PART%20-%20202.pdf>
14. Camila A Carlman, **Bharat Mishra*** Anita Patel. Perilous HIV brings out deadly cancers. International Journal of Indigenous Herbs and Drugs (Int. J. Indig. Herb. Drug.), 2020;6(5):6–10.
15. Jisa Elizabeth Sabu, **Bharat Mishra***, Angelin Jaimon Augustine, R Aleesha. A review on lipoma and its genetic interventions. International Journal of Indigenous Herbs and Drugs (Int. J. Indig. Herb. Drug.), 2020;6(5):1–5.
16. Beenu Maria Joseph, **Bharat Mishra***, Akhila Susan John. Obstructive Sleep Apnoea (OSA) With Psychological Intervention in Geriatrics: A Complicated Case Study. Advances in Bioresearch. Adv. Biores., Vol 11 (5) September 2020: 187-192. DOI: 10.15515/abr.0976-4585.11.5.187192. **Web of Science**: Thomson Reuters citation: ESCI- (**Zoological Record**), **UGC care list**. http://soeagra.com/abr/sept_2020/29.pdf.
17. Flowerlet Mathew, Bimi Varghese, D. Joseph, **B. Mishra**, Manju Maria Mathews and Junia George. A Meticulous Investigation on Antidiabetic Profile of Mimosa pudica: The Shy Plant. Indian Journal of Natural Sciences. Vol. 10, Issue 61, August 2020, 18600-19609., ISSN:0976-0997. **Web of Science**: Thomson Reuters citation: ESCI- (**Zoological Record**), **UGC care list**. <https://mjl.clarivate.com/journal-profile>, <http://tnsroindia.org.in/JOURNAL/FULL%20TEXT%20ISSUE%201.pdf>
18. Joicy Jose, Johnson V. Babu, **Bharat Mishra***. Convalescent plasma therapy: A Novel Approach to a Novel Coronavirus. International Journal of Pharmacy and Pharmaceutical Sciences. Vol 12, Issue 8, August. 2020, 180-182. **Online ISSN: 0975-1491** **Print ISSN: 2656-0097**. [SJR (SCOPUS) Impact Factor: Q3 - 0.17-up to 2016] <https://innovareacademics.in/journals/index.php/ijpps/article/view/38574/23280>

19. Aleesha R, **Bharat Mishra***. Evaluation of Anti-Inflammatory and Antidiabetic Activity of Simarouba Glauca Bark Extract: An In Vitro Study. Asian Journal of Pharmaceutical and Clinical Research. Vol 13, Issue 8, August. 2020,74-78. [SJR (SCOPUS) Impact Factor: Q3 - 0.14-up to 2018] <https://innovareacademics.in/journals/index.php/ajpcr/article/view/37916/23364>
20. Anita P. Patel¹*, Jayvadan K. Patel, **Bharat Mishra**. Thermosensitive Mucoadhesive Pluronic-Based In-Situ Vaginal Gel of Sertaconazole. International Journal of Indigenous Herbs and Drugs (Int. J. Indig. Herb. Drug.) 5(2),2020,11-21. <https://www.saapbooks.com/journals/index.php/herbsanddrugs/article/view/84>
21. **Bharat Mishra ***, Aaishwarya Deshmukh, Krupamol Joy. Hypoxia-Inducible Factors-1 in Malignancies: Causative to Restorative. Bulletin of Environment, Pharmacology and Life Sciences. Bull. Env. Pharmacol. Life Sci., Vol 9, [8] July 2020: 20-28, Academy for Environment and Life Sciences, India Online ISSN 2277-1808. **Web of Science:** Thomson Reuters citation: **ESCI-Zoological Record**), **UGC care list**. Journal's URL: <http://www.bepls.com>, <https://mjl.clarivate.com/search-results>
22. Badmanaban R*, Janice Jacson Mandumpala, Krupamol Joy, Sulaikha Abdul Kareem, **Bharat Mishra**. A study on Pharm D Students Present Views and Future Plans. World journal of Current Medical and Pharmaceutical Research. Volume-2, issue-3, June 2020, 224-227. Online ISSN: 2582-0222. DOI: <https://doi.org/10.37022/wjcmpr.vi.135>
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BOOKS/BOOK CHAPTER

INTERNATIONAL

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1. **Dr.Bharat Mishra*** Dilemma and uncertainty in covid-19 treatment: a reality check. International pharma conference (pharma – 2020), virtual (online conference) august 26 – 27, 2020.
2. **Dr.Bharat Mishra*. International pharma conference (pharma – 2020), virtual (online conference) august 26 – 27, 2020. Guided to:** Ms. Sreelakshmi Sreekumar (Migraine and Neurological Triggers), Ms. Jisa Elizabeth Sabu (Efficacy and Sustainability of Blood Pressure Control), Ms. Angelin Jaimon Augustine (Molecular and Genetic Mechanism of Hemophagocytic Lymphohistiocytosis), Ms. Aneeta Jeelson (The Use of SSRI'S Linked to Violent Crime Conviction?), Ms. Christy Sojan (Effect of Host Genetics on the Second Genome: The Gut Microbiota), Ms. Niveena Varghese(Ewing's Sarcoma's Inception with Paraplegia: An Unusual Anamnesis), Ms. Benita John(Brain Plasticity in Neuropsychological Disorders: Mechanism and Genetic Interventions), Ms. Camila A Carlman (Genetic Traits & Chromosomal Approaches in Anxiety Disorders), Ms. Elizabeth Rachal James (Insulin Signaling and Psychopharmacological Interventions), Ms. Anitta Thomas (Non –Functional Pancreatic Neuroendocrine Tumor [Nf-Pnet]- An Apperception of Molecular Mechanism and Genetic Intervention), Ms. Fida Firdouse (Encephalomyelitis Disseminata: Genesis through Reformation), Ms. Aleena Elsa Jacob(An Overview of Trichoepithelioma), Ms. Parvathy B Nair (Overview on Gestional Trophoblastic Tumor), Ms. Shefin Siby (Bioprinting: An Advancement in the Cancer Research). <https://pharma.thereignite.com/>,<https://pharma.thereignite.com/featured-speakers/>,<https://pharma.thereignite.com/organizing-committee-members/>
3. **Dr.Bharat Mishra* An international webinar on: World Conference on Epidemiology-Infectious Diseases and Public Health, London, UK August 10-11. Guided to:** Ms. Camila A. Carlman (Lethal HIV brings out deadly cancers), Ms. Aleesha R(Spasmolytic effect of calotropis gigantea tincture on histamine and acetyl choline receptors), Ms. Jisa Elisabeth Sabu (Genetic interventions for lipoma), Ms. Aneeta Jeelson (The alzheimer's gene - predicting the severity of COVID-19)
4. Co-Authored **04 paper** with Camila A Carlman, Johnson V Babu, Krupamol Joy & Aleesha R entitled '**Mode Of Transmission And Clinical Features Of Covid- 19', Plasma Therapy: A New Option For Covid-19 Treatment, Neuropsychological Symptoms In Covid 19 Positive Patients & Cytokine Storm Arbitration In Covid 19 Pneumonia.** at online conference "Study on COVID 19: COVID 19, Transmission, spread, treatment, prevention, mutation, biochemistry, genetics, economic losses, epidemiology, etc.from 1-15th May 2020, organized by the Society for Environmental Resources and Biotechnology Development (SERBD) Agra, UP, India & Electro homeopathy research foundation, India.
5. **Dr.Bharat Mishra*** , Neha Baby, Anju Abraham , Sandra Saji. Gene Rearrangement in Anaplastic Lymphoma Kinase: Major Trigger for Variety of Cancers. *page-10
6. Janice JacsonM, **Dr. Bharat Mishra*** Histone Modifications: The Double-Edged Sword In Gynaecological Cancers. *page-13
7. **Dr. Bharat Mishra***, Aleesha R*, Angelin Jaimon Augustine, Jisa Elizabeth Sabu, AnjalySaji, AswathySaji. Insights into Mechanism for Lipoma: Genetic Interventions. * Page 16
8. **Dr Bharat Mishra***, Dr Prasanth Francis, Joyalyn Joy, Linda Mariya Jose. Oncolytic Viruses in Cell Communication Pathways. *page 17
9. **Dr.Bharath Mishra***, Alasandra Rose MS, Bhagia Anna Manoj,Anna Maria Jose ,Minnu Ann Mohan, Silda Raphel. It can be identified before it appears; "genetic variations as genetic markers". *page 39
10. **Dr. Bharat Mishra***, Alwin Anto, Simi Grace Joseph. Epidemiological Study On Menstrual Hygiene And Menstrual Irregularities Among Young Health Care Professionals. *page 41
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8. **Bharat Mishra**, Anu Sebastian, Badmanaban. R, Srinivasan N. Toxicity profile of the native herbs in Kerala with the neuroprotective potential. National conference on environmental pollution and control technologies, epact, **August.2019**, organized by **Department of Chemical Engineering, Faculty of Engineering and Technology, Annamalai University**, Annamalai Nagar - 608 002 Tamilnadu, India. **ISBN: 978-93-5361-615-1**.

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10. Bharat Mishra et al., Epidemiology (Sunnyvale) 2019, Volume 9, Epidemiology: Open Access. “An Epidemiological Study to Investigate the Prevalence, Awareness, Usefulness And Adversities Of Using Herbal Plants Products Concomitantly With Synthetic Antidiabetic Drugs Among Type 2 Diabetic Patients”, 7th Epidemiology and Public Health Conference, June 17-18, 2019 at Dubai, UAE. **ISSN: 2161-1165**.

PAPER PRESENTED (31)

1. Co-authored & Guided the **14 papers**, presented as oral presentation at two days **International pharma conference (pharma – 2020), virtual (online conference) august 26 – 27, 2020**, organized by *Reignite Innovative Conferences, Allwyn, Hyderabad. (refer the conference proceedings, above)*
2. Co-authored & Guided the **05 papers**, presented as oral presentation at two days International webinar on: World Conference on Epidemiology- Infectious Diseases and Public Health, **London, UK August 10-11**.
3. Presented an invited paper entitled ‘**Covid-19-Fact Check**’ at online conference “Study on COVID 19 : COVID 19 , Transmission, spread, treatment, prevention, mutation, biochemistry, genetics, economic losses, epidemiology, etc.from 1-15th May 2020, organized by the Society for Environmental Resources and Biotechnology Development (SERBD) Agra, UP, India & Electro homeopathy research foundation, India
4. Co-authored & Guided the following papers (**05**), presented in e-poster competition at two days national conference “A Paradigm Shift for Emerging Paraphernalia in Advancement of Cancer Research” under NILA-2020 Module VII, on 28-29 February 2020 organized by Nirmala College of Pharmacy, Muvattupuzha, Kerala.
 - i. Epidemiological Study on Menstrual Hygiene and Menstrual Irregularities Among Young Health Care Professionals.
 - ii. Corona virus; A Recent Outbreak.
 - iii. Histone Modifications: The double-edged sword in Gynecological Cancers.
 - iv. It can be identified before it appears: Genetic variations as genetic markers.
 - v. Oncolytic viruses in cell communication pathways.
5. An oral presentation on “An Epidemiological Study To Investigate The Prevalence, Awareness, Usefulness And Adversities of Using Herbal Plants Products Concomitantly With Synthetic Antidiabetic Drugs Among Type 2 Diabetic Patients.” at 7th Epidemiology and Public Health Conference held during June 17-18, 2019 at **Dubai, UAE** with the theme of “Global Health a major topic of concern in Epidemiology Research and Public Health study “7th Epidemiology and Public Health Conference initiated by Editors of Journal of Epidemiology: <https://epidemiology.healthconferences.org>
6. An oral presentation on “Investigation on a novel antidiabetic dose combination based on gymnema sylvestre and momordica charantia along with pioglitazone in major diabetic complications” in 2nd International Conference on ‘Development in Pharmaceutical Sciences’ on 16th March, 2019 at Scient Institute of Pharmacy, Ibrahimpatnam, Hyderabad, Telangana .

7. An oral presentation on 'Evaluation of the antiulcer activity of the aqueous extract of *Osyris quadripartita* in experimental animals' In International Conference on 'Development in Pharmaceutical Sciences', at Scient Institute of Pharmacy, Hyderabad, Telangana on 09th April-2018.
8. An oral presentation on "Investigation on a novel antidiabetic dose combination based on gymnema sylvestre and momordica charantia along with pioglitazone in major diabetic complications" in ICMR sponsored two days national seminar on Novel Paradigm in Reversing Diabetes and Diabetic complications organized by S.K Patel college of Pharmaceutical science and research, Ganpat University, Kherva, Gujarat on 12th and 13th October, 2012 .
9. On 'Investigation on the effect of *Raphanus sativus* on fertility parameters in male rats' in 14th Annual National Convention of Association of Pharmaceutical Teachers of India. Jodhpur on 3rd and 4th October 2009.
10. On 'Investigation on the effect of fresh juice of *Raphanus sativus* on spermatogenesis in rats' in 57th IPC in Hyderabad on 04-Dec-2005.
11. On "Investigation of antiulcer activity of fresh juice of leaves of *Coriandrum sativum* by ethanol-induced ulceration". 57th IPC in Hyderabad in 2005.

SDP /FDP/QIP PARTICIPATED/ORGANIZED

1. Participated in '**ONE WEEK**' International Conference on "Applications of Computational Clinical Biopharmaceutics in Pharmaceutical Product Development" from August 22 to 28-2020, by Department of Pharmaceutics, Nirmala College of Pharmacy, Muvattupuzha, Kerala.
2. Participated in '**TWO WEEKS**' online Faculty Development program on "Emerging trends and challenges in pharmaceutical sciences and health care" International e-FACULTY DEVELOPMENT PROGRAMME from 07th to 19th September 2020 organized by the Nehru College of Pharmacy, Kerala, INDIA.
3. Participated in '**Seven Days**' online Faculty Development program on "**OPEN SOURCE TOOLS FOR RESEARCH**" under the most coveted **MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT)**, organized by **Teaching Learning Centre (TLC), Ramanujan College** in association with **Research Development and Services Cell, Ramanujan College, University of Delhi. 08th June 2020 to 14th June 2020.**
4. Participated in 'Two Days Orientation Programme for Pharmacy Teachers on Andragogical Practices' organized by Kerala State Self-Financing Pharmacy College Management Association and hosted by Chemist College of Pharmaceutical sciences and research, Ernakulam. On 7th & 8th February 2020.
5. Participated in a Faculty Development Program entitled 'Advanced & Ethical Teaching, Studentship & Publication Science' at Nirmala College of Pharmacy, Muvattupuzha, on 28th October-2019
6. Participated in a Faculty Development Program at Nirmala College of Pharmacy, Muvattupuzha, on 1st & 2nd December-2017.
7. Participated in an International lecture series organized by Devaki Amma Memorial College of Pharmacy in association with Indian Association of Colleges of Pharmacy, in the 'Pharmacy Practice Module-Advanced Learning Series-4 on Infectious Diseases' during 23rd to 25th September 2017.
8. Participated in AICTE sponsored **two weeks** Quality Improvement Programme on 'Advanced Experimental Techniques and data acquisition in pharmacological research' at JSS College of Pharmacy, Ooty, Tamilnadu. During 13-26th March-2017.
9. Participated in AICTE sponsored **two weeks** Staff Development Programme on Newer Prospectives in clinical research at Shree sarvajanic Pharmacy College, Mehsana, Gujarat from 3rd July to 16th July 2013.
10. Participated in AICTE sponsored **two weeks** Staff Development Programme on Advances in Drug Delivery System at Shree sarvajanic Pharmacy College, Mehsana, Gujarat during the 20th March to 2nd April 2012.
11. Organized a two weeks AICTE sponsored Staff Development programme on Recent advances in Drug Delivery Systems at Nootan pharmacy college, Visnagar, Gujarat during 1st to 14th March 2012.
12. Participated in FDP of 'Swami Vivekanand Contributor Personality Program' organized by GTU, Ahmedabad on 7th and 8th January 2012.

WORKSHOP /SEMINARS/CONFERENCE/WEBINAR: ATTENDED/ORGANISED

1. Attended a “National Online Workshop on “Generating the Highest Level of Evidence through Systematic Review and Meta-analysis: Best Alternative for Hospital Based Projects During the Current Pandemic Situation” Organized by The Department of Pharmacy Practice, *National Institute of Pharmaceutical Education and Research (NIPER) Guwahati* held during 28th & 29th August 2020.
2. **Organized and Attended an** “International pharma conference (pharma – 2020), virtual (online conference) august 26 – 27, 2020, organized by *Reignite Innovative Conferences, Allwyn, Hyderabad*.
3. **Attended a “World Conference on Epidemiology-Infectious Diseases and Public Health” (online) held during August 10-11, 2020 at GMT+4.at Landon, UK.**
4. Participated in the Webinar on Virtual Pharmacology: New Paradigm of experimentation held on 28-07-2020 organized by Guru Govind Singh college of Pharmacy.
5. Participated in the Webinar on Challenges faced and opportunities in pharmaceutical marketing for pharmacy graduates: post covid-19 world, held on 20-06-2020 organized by Nandha college of Pharmacy, Tamilnadu.
6. Participated in webinar ‘Immunity boosters in Infectious diseases on 11/5/2020 by SGMSPM’s Sharadchandra Pawar College of Pharmacy, Pune.
7. Attended a live webinar on’ Covid-19Lab parameters as early indicators and prognostic markers by Dr. Sitalakshmi Subramanian, Prof & Head Lab services, transfusion medicine and Immunohematology, St. Johns Medical College Hospital, Bangaluru, Organized by Transacia Biomedical ltd. On 6th May 2020.
8. Participated in Webinar “Managing Gmp’s Within the Qms In The Covid-19- Scenario” on 15/05/2020, Sharadchandra Pawar College of Pharmacy, Dumbarwadi (Otur), Tal-Junnar, Dist- Pune 412409
9. Participated in the International Webinar on COVID -19: Challenges & Opportunities for Pharmaceutical Education and Industry held on 17-05-2020 organized by Apex Institute of Pharmacy.
10. Participated in Webinar “Outcome based Education software” on 14/05/2020, by vmedulife software services.
11. Participated in the Webinar & Quiz on “Pateomatic-A self automated and instantaneous patent drafting tool” Organized by TechnolawJease Intellectual property management solutions pvt. Ltd. On 25th April-2020.
12. **Attended** the two-day **Mentor-Mentee-interstate interaction program on ‘Pharmacoeconomics and Outcome Research’** jointly organized by ISPOR student chapter of Nirmala College of Pharmacy, Muvattupuzha, Kerala and Narayana Pharmacy College, Nellore, Andhra Pradesh on 6th and 7th March-2020.
13. **Organized as ‘CONVENOR’ a DBT and South Indian Bank sponsored two days national conference on, “A Paradigm Shift for Emerging Paraphernalia in Advancement of Cancer Research” under NILA-2020 Module VII, on 28-29 February 2020 organized by Nirmala College of Pharmacy, Muvattupuzha, Kerala.**
14. Attended a Hands-on Workshop entitled “Auto-dock Based Drug Design” at Nirmala College of Pharmacy, Muvattupuzha on 26/10/2019.
15. Attended a Faculty Enrichment Program entitled “Role of ADME and Toxicity in the Drug candidate selection using multi parameter optimization” at Nirmala College of Pharmacy, Muvattupuzha on 16/08/2019.
16. Acted as a **Organizing Committee member** at 7th Epidemiology and Public Health Conference held during June 17-18, 2019 at **Dubai, UAE** with the theme of “Global Health a major topic of concern in Epidemiology Research and Public Health study “7th Epidemiology and Public Health Conference initiated by Editors of Journal of Epidemiology: <https://epidemiology.healthconferences.org>
17. Participated in a ‘Two days National Seminar held on 12-13th October 2018 on ‘Pharmacovigilance: Perspective and Emerging trends’ at Smt. Kashibai Navale College of Pharmacy, Kondhwa (Bk.) Pune 48.
18. Acted as Convener for Grievance Cell for the Kerala State Self Financing Pharmacy College Management Association supported three days cultural fest ‘Pharmolsavam-2018’ on 10th-12th April organized by Nirmala College of Pharmacy.
19. Attended a seminar on, “How to design tomorrows medicine” on 03rd March 2017, at Nirmala College of Pharmacy, Muvattupuzha, Kerala.

20. Attended a one-day national seminar PHARMAINSIGHT-2018 on 'Reinvigorating Knowledge in Pharmaceutical Sciences' on 16th February 2018 at College of Pharmaceutical Sciences, Govt. T.D Medical College, Vandanam, Alappuzha.
21. Organized a KSCSTE sponsored national seminar on, "Drug Design and Optimization of Drug Delivery System" on 09th November 2017, at Nirmala College of Pharmacy, Muvattupuzha, Kerala as a Convenor of the event.
22. Participated in a national seminar cum workshop Pharmachem'17 on 'Multiple Facets of Pharmacovigilance' organized by Chemists College of Pharmaceutical Sciences & Research, Variokoli, Ernakulam, Kerala on 14th October 2017.
23. **Organized as 'CONVENOR' a DST and KSCSTE sponsored symposium on, "Impact Of Genetic Variations On The Drug Receptor Targets And Its Explorations" on 06th May 2017, at Nirmala College of Pharmacy, Muvattupuzha, Kerala as a Convenor of the event.**
24. Participated in two days workshop as "Research Day" organized by the Amrita School of Pharmacy, in Amrita Vishwa Vidyapeetham University, Ponekkara, Kochi, Kerala on 17 th & 18th March 2017.
25. Organized a national seminar sponsored by KSCSTE on 'Novel Approaches to Drug Design and Molecular Modeling' on 05th November 2016, at Nirmala College of Pharmacy, Muvattupuzha, Kerala.
26. Participated in one day International conference on "Emerging Pharma Innovations-Challenges & Strategies" organized by the Sree Krishna College of Pharmacy & Research Centre, Parassala, Thiruvananthapuram, Kerala on 11th October 2016.
27. Organized a national seminar on 'Herbal Drug Research-A Nano-Molecular Level Exploration' on 24th September 2016, at Nirmala College of Pharmacy, Muvattupuzha, Kerala.
28. Participated in a national level training programme on "Operational Research Protocol Development" organized by the Quality Assurance and Audit Directorate of the University of Gondar, Gondar, Ethiopia Africa on 11-12th July 2015.
29. Participated in a national level training programme on "Pedagogical Skills Training for the Expatriate Staff" organized by the Quality Assurance and Audit Directorate of the University of Gondar, Gondar, Ethiopia Africa on 4-5th April 2015.
30. Attended a GUJCOST sponsored national seminar on Research Methodology Concept: An approach for upgrading student research, organized by Nootan Pharmacy College, Visnagar Mehsana, Gujarat on 20th January 2014.
31. Attended a GUJCOST sponsored national seminar on The process of explicit and practice research paper writing, organized by Nootan Pharmacy College, Visnagar Mehsana, Gujarat on 21st January 2014.
32. Acted as an organizing committee member in ABVP organized, state-level seminar at Shree Sarvajanic Pharmacy College, Mehsana, Gujarat, on 28th and 29th September 2013.
33. Attended a GUJCOST sponsored national seminar on Application of statistical concepts in pharmaceutical sciences, organized by Nootan Pharmacy College, Visnagar Mehsana, Gujarat on 14th September 2013.
34. Attended an AICTE sponsored workshop on Patenting in pharmaceuticals, organized by Shree sarvajanic Pharmacy College, Mehsana, Gujarat on 6th July 2013.
35. Attended an ICMR sponsored two days national seminar on Novel Paradigm in Reversing Diabetes and Diabetic complications, organized by S.K Patel college of Pharmaceutical science and research, Ganpat University, Kherva, Gujarat on 12th and 13th October 2012.
36. Attended a state level seminar on 'Stress testing in Pharmaceuticals' organized by Shree sarvajanic Pharmacy College, Mehsana, Gujarat on 24th March 2012
37. Attended a two days workshop on 'Patenting in Pharmaceuticals' organized by GTU, Ahmedabad on 3rd and 4th September 2011.
38. Participated in a four weeks international faculty workshop in the 'Winter Interactive & Reflective English development Program (WIRED)' at S.K Patel Campus in Visnagar, Gujarat.
39. Attended a national seminar on 'Quality assurance issues in drug discovery & formulation development' organized by Babaria Institute of Pharmacy, Baroda, Gujarat on 3rd and 4th December 2010.
40. Attended: 57th Indian Pharmaceutical Congress-2005 in Hyderabad
41. Attended: 54th Indian Pharmaceutical Congress in Delhi

1. *Invited as Resource Person and to chair the conference at “International pharma conference (pharma – 2020), virtual (online conference) august 26 – 27, 2020, organized by Reignite Innovative Conferences, Allwyn, Hyderabad and delivered a keynote talk on “Dilemma and uncertainty in COVID-19 treatment: a reality check”*
2. *Invited as Resource Person at “World Conference on Epidemiology-Infectious Diseases and Public Health” (online) held during August 10-11, 2020 at GMT+4.at Landon, UK and delivered a talk on “Dissension, Contradiction and COVID-19”*
3. *Invited as Resource Person to deliver a talk on “Neurohumoral Transmission: How the brain functions” on 06 June-2020 by B N College of Pharmacy, Sitapur Road, Lucknow*
4. *Invited as Resource Person to deliver a talk on ‘Opportunities and publication process in pharm D education’ in the two day Mentor-Mentee-interstate interaction program on ‘Pharmacoeconomics and Outcome Research’ jointly organized by ISPOR student chapter of Nirmala College of Pharmacy, Muvattupuzha, Kerala and Narayana Pharmacy College, Nellore, Andhra Pradesh on 6th and 7th March-2020.*
5. *Invited as Resource Person in a Faculty Development Program entitled ‘Advanced & Ethical Teaching, Studentship & Publication Science’ for delivering a talk on Google Scholar, Google Classroom, Google Forms and Google colander at Nirmala College of Pharmacy, Muvattupuzha, on 28th October-2019.*
6. *Invited as Resource Person in a Seminar organized by the Hygia group of Institutions, Lucknow and delivered a talk on’ Opportunities after the B. Pharm’.*
7. *Member of the External Examiner Panel and Paper setter for PhD program for Kerala University of Health Sciences, Thrissur, Kerala.*
8. *Member of the External Examiner Panel and Paper setter for Pharm D and B. Pharm Practical and External Evaluator for Paper Evaluation for Amrita University, Ernakulam, Kerala and Kerala University of Health Sciences, Thrissur, Kerala.*
9. *Member of the External Examiner Panel for PRE-DOCTORAL and DOCTORAL VIVA VOCE for M.G University, Kottayam, Kerala.*
10. *Invited as Resource Person in a two days National Workshop on ‘Integrative Pharmacology and drug discovery in context to metabolic syndrome, obesity and diabetes: from bench to bedside, organized by Sankersinh Vaghela Bapu Institute of Pharmacy, Vasan, Gandhinagar, Gujarat on 1st & 2nd February 2018.*
11. *Invited as Resource Person in at 7th Epidemiology and Public Health Conference held during June 17-18, 2019 at Dubai, UAE with the theme of “Global Health a major topic of concern in Epidemiology Research and Public Health study and delivered a talk on “Exploration of a novel antidiabetic regimen by concomitant use of synthetic and herbal drugs” and “How to be Happy in life”, “7th Epidemiology and Public Health Conference initiated by Editors of Journal of Epidemiology: <https://epidemiology.healthconferences.org>*
12. *Delivered a talk on ‘Stress Management & Happiness of life’ in a Faculty Development Program at Nirmala College of Pharmacy on 1st & 2nd December-2017.*
13. *Invited as a Resource person in KSCSTE sponsored a national seminar on, “Drug Design and Optimisation of Drug Delivery System” on 09th November 2017, at Nirmala College of Pharmacy, Muvattupuzha, Kerala.*
14. *Invited as Resource Person In international conference on ‘Current research in effective methodology of pharmaceutical and life sciences’, organized by National Forum of Pharmacy Students (NFPS) on 14th October 2017at Abids, Hyderabad.*
15. *Delivered a talk on ‘Contributor Personality Development’ in a workshop organized by Nirmala College of Pharmacy on 23 October -2017.*
16. *Invited as a Resource person in 2nd International Conference on ‘innovations in Pharmaceutical Sciences (ICIPS-2017) organized by School of Pharmacy, Guru Nanak Institutions Technical Campus (Autonomous), Hyderabad, Telangana, on 28th & 29th July-2017 to deliver a talk on ‘Targets for treatment of Diabetes Mellitus & Novel Trends & Approaches’.*
17. *Delivered a lecture on ‘Bloom Taxonomy’ for the academicians in Nirmala College of Pharmacy, Muvattupuzha, Ernakulam, and Kerala.*

18. Worked as a Reviewer for the ‘Mega Project’ for the School of Pharmacy, University of Gondar, Gondar, Ethiopia, Africa.
19. Invited as a Resource Person in a Training Programme conducted for the management students on “**Personality Development**” organized by Sri Vaishnavi College of Engineering, Srikakulam, Andhra Pradesh, India, on 21st February 2016.
20. Invited as a Resource Person in ABVP organized, state-level seminar at Shree Sarvajanic Pharmacy College, Mehsana, Gujarat as Evaluator for Poster presentation, on 28th and 29th September 2013.
21. Worked as an External Paper Setter for the Sumandeep University, Baroda, Gujarat for Anatomy & Physiology and Pharmacology courses for B. Pharm.
22. Worked as an External Practical Examiner for the M. Pharm Pharmacology, in Gujarat Technological University, Ahmadabad, Gujarat.
23. Worked as an External Examiner for the B. Pharm, in following universities-
24. Gujarat Technological University, Ahmadabad, Gujarat.
25. Uttar Pradesh Technical University, Lucknow, Uttar Pradesh.
26. Himachal Pradesh Technical University, Himachal Pradesh.
27. Worked as Paper evaluator for following universities-
28. Gujarat Technological University, Ahmadabad, Gujarat.
29. Kerala University of Health Sciences, Thrissur, Kerala.
30. Uttar Pradesh Technical University, Lucknow, Uttar Pradesh.
31. Rajasthan University, Jaipur, Rajasthan.
32. Worked as a chief squad for the Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka.

OTHER EXPERIENCES:

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- Acting** as a Pharmacologist in the ‘Institutional Ethics Committee’ for Cochin University of Science and Technology (CUSAT), Kochi, Kerala from 2017 onwards.
 - Acted as a Convenor for a Symposium at Nirmala College of Pharmacy, Muvattupuzha, Kerala in 2017.
 - Working as Director of Internal Quality Audit Cell (IQAC) for Nirmala College of Pharmacy, Muvattupuzha, Kerala.
 - Working as a Head of the Research and Development Cell in Nirmala College of Pharmacy, Muvattupuzha, Kerala.
 - Working as a member of the Central Academic Regulatory Board in Nirmala College of Pharmacy, Muvattupuzha, Kerala.
 - Worked as a Controller of Examinations in Rameshwaram Institute of Technology & Management, Lucknow, UP, India
 - Worked as a Coordinator for ISO-2009 Certification for Shri Krishna Institute of Pharmacy, Bhechraji, Mehasana North Gujarat, India
 - Worked as a member of the local organizing committee for following events-
 - Two National Seminar at Nirmala College of Pharmacy, Muvattupuzha, Kerala in 2016 and 2017.
 - Staff Development programme at Nootan pharmacy college, Visnagar, Gujarat in 2012
 - State level seminar at Shree Sarvajanic Pharmacy College, Mehsana, Gujarat in 2013.
 - Three National Seminar at Nootan pharmacy college, Visnagar, Gujarat in 2012, 2013 and 2014.

TRAININGS UNDERGONE

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- Participated in a ‘Hands-on training on Pharmacokinetics Modeling Programme’ organized by Department of Pharmaceutics, Nirmala College of Pharmacy, Muvattupuzha in Association with APL Software Solution, the USA on 22nd November 2018.
 - Participated in a ‘Hands-on training on Instrumentation and working procedures of Semi Autoanalyzer ERBACHEM-7-Germany’ organized by Department of Pharmacology, Nirmala College of Pharmacy, Muvattupuzha in Association with Transasia Bio-Medicals Ltd., Mumbai, on 2nd March 2018.

□ Participated in a ‘Hands-on training on Instrumentation and working procedures of student Physiograph’ organized by Department of Pharmacology, Nirmala College of Pharmacy, Muvattupuzha in Association with Orchid Scientific & Innovative India Pvt. Ltd. Nasik, on 18th November 2017.

CERTIFICATE COURSE (online/distance learning):

- **BHARAT MISHRA**, awarded a certificate by **World Health Organization (WHO)**, under Health Emergency program to complete a online course on ‘**Clinical Care Severe Acute Respiratory Infection**. April 19, 2020. <https://openwho.org/courses/severe-acute-respiratory-infection/progress>
- **BHARAT MISHRA**, Awarded a certificate on ‘**nCOVID - 19 Awareness and Prevention Program**’ Conducted by **Apollo MedSkills**. CERTIFICATE NO. : AMS1056305. April 13, 2020.
- **BHARAT MISHRA**, awarded a certificate by **World Health Organization (WHO)**, under Health Emergency program to complete a online course on ‘**ePROTECT Respiratory Infections (EN)**. April 12, 2020. <https://openwho.org/courses/eprotect-acute-respiratory-infections>
- **BHARAT MISHRA**, awarded a certificate by **World Health Organization (WHO)**, under Health Emergency program to complete a online course on ‘**Influenza sentinel surveillance training**’ provides web-accessible training on Influenza Sentinel Surveillance to public health practitioners and laboratorians. with **90.5% points**. April 12, 2020. <https://openwho.org/courses>
- **BHARAT MISHRA**, awarded a certificate by **World Health Organization (WHO)**, under Health Emergency program to complete a online course on **COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response**). April 12, 2020. <https://openwho.org/courses>
- **BHARAT MISHRA**, Awarded a certificate by **World Health Organization (WHO)**, under Health Emergency program to complete a online course on ‘**Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19): Module 2: The novel coronavirus (COVID-19). Its epidemiology, risk factors, definitions and symptomology**. April 8, 2020. <https://openwho.org/courses/COVID-19-IPC-EN>
- **BHARAT MISHRA**, awarded 1 European CME Credits (ECMEC®s) for successfully completing the IDF Online Short course on, **DIABETES AND CVD**. The IDF School of Diabetes –is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The IDF School of Diabetes is an initiative of the International Diabetes Federation., Completed on: 11 October 2019. www.idfdiabeteschool.org
- **BHARAT MISHRA**, awarded 1 European CME Credits (ECMEC®s) for successfully completing the IDF Online Short course on, **DIABETES AND CVD**. Completed on: 21 September 2019.
- **BHARAT MISHRA**, awarded 1 European CME Credits (ECMEC®s) for successfully completing the IDF Online Short course on, **DIABETETIC RETINOPATHY**. Completed on: 21 September 2019.

SOFT SKILLS

- *EXCELLENT COMMUNICATOR AND ORATORY.*
- *MOTIVATIONAL SPEAKER. EXPERT ON SPEAKING FOLLOWING TOPICS:*
- *STRESS MANAGEMENT*
- *HOW TO BE HAPPY IN LIFE*
- *CONTRIBUTERSHIP*
- *HOW TO BE INFLUENTIAL*
- *TEAMWORK*
- *CURRIER GUIDANCE FOR PHARMACY STUDENTS*
- *HOW TO ACQUIRE POSITIVE BEHAVIOUR*
- *BODY LANGUAGE IN PROFESSIONALS*
- *TRIPPLE ‘T’ MANAGEMENT*
- *BLOOM TAXONOMY FOR IMPROVEMENT OF TEACHING AND LEARNING.*

OTHER ACHIEVEMENTS & AWARDS

- Awarded for 'Excellence in Research' by 5th South Asian Education Awards-2020-EET CRS Research wing for excellence in professional education & Industry.
 - Selected and published the poetry in All India competition for Hindi poetry writers in FB in a collection named 'SHATDAL' published by 'Bodhi Prakashan' New Delhi-2015.
 - Published a poetry collection named 'Khilne Ke Liye' by 'Prawah Prakashan' New Delhi-2014.
 - Poems translated and published by 'ROCK PEBBLES' and International Magazine from Orissa-2017.
 - Poems selected in all India competition by 'Pratilipi.com'-2018.
 - Poems published by 'Vishyamukti' a Hindi Literature Magazine from Orissa-2016.
 - Awarded 'Tulsi Samman' by Bar Council, High court Lucknow for significant contribution in Hindi Literature-2008.
 - Poems published in 'Dharmayug' and 'Navankur' magazines-2001.
-

Country visited:

- Ethiopia, Africa
- Dubai, UAE

Computer /Software Knowledge

- Experience in using Chem sketch, PAAS online software and Autodock Vina Program in PyRx software.
- Experienced in Research paper editing/plagiarism software 'TYPESET'.
- Experienced in grammar and English editing software 'Grammarly'.
- Experienced in Graph Pad Prism software employed for calculation of experimental pharmacology parameters.
- Experienced in Windows and other software packages as MS-DOS, Windows- XP, MS Office and Internet.

❖ INSTRUCTIONAL MATERIALS PREPARED: Annexure-III

My Philosophy of Teaching

Teaching is a lifestyle for me. The one word which describes my understanding of teaching is 'Responsibility'. This one thing makes me learn all other facets of teaching. I believe the teacher must be a 'TEACHER' before the 'subject teacher'. The sense of responsibility towards students has taught me that the things I will be reluctant to teach them today maybe that lacuna will remain in them forever.

The teaching must be communicative and sensibly innovative. So, I believe the teacher must be a good orator sometimes, actor. I can summarize my values for teaching as Being human, being vigilant, and being innovative, communicative, dedicated, and informative.

I believe that the students do not learn only subjects from a teacher but life too, and we must have life in us to be the role model to whom students wish to follow.

Over the years, I have developed an innovative approach to teaching. I believe, Nature is the best source for almost all kinds of information; I use the examples in those associations. I think the use of technology must be sensible, it should not make us blindly dependent on that, and we lose our earned skills.

I believe a TEAM must be formed to extract and perform quality work among teachers and students.

In my experience, the best teaching involves concrete, hands-on examples, so I engage students in my courses by encouraging the maximum laboratory participation possible or creating the possibility to express the standards in the class itself. I also believe that a good human being could be an excellent professional.

The character formations, inculcation of self-belief, strengthen the problem-solving ability, and mold them into scientific minds who can think logically and accept the fact by evidence are some core areas of my teaching.

I believe the best research can be done by creating scientific thinking, and the scientific minds see things differently, so they bring out something innovative.

PERSONAL DETAILS

Father's name : Lt. Mr. Ram Autar Mishra
Mother's Name : Mrs. Vrinda Mishra
Date of Birth : 01.07.1980.
Marital Status : Married
Nationality : Indian
Hobby : Reading books & magazines, Listening music, Photography and poetry.
Language Known : English, Hindi, Gujarati

REFERENCE

DR. S. S. Pancholi, M. Pharm., Ph. D., LLB
Professor & Principal,
S K Patel College of Pharmacy,
Ganpat University, Kherva
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Dr. David Banji, M. Pharm., Ph. D
Professor,
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Email: davidbanji@gmail.com

Brief Summary of the Project Work Carried Out During M-Pharm

Summary

The plant *Raphanus sativus* is used both as therapeutic agent and as vegetable. It is belonging to the family *Brassicaceae*. It is indicated in the treatment of various ailments in Ayurvedic and folklore medicine. In Ayurvedic *Raphanus sativus* has been widely used for *piles*. The seeds of it are believed to have immunogouge properties; Seeds of this plant are useful in gonorrhoea; and it is also given in urinary and syphilitic complaints.

The sperm Motility and sperm count was decreased in rats treated with 1, 2 & 5 ml of fresh juice of *Raphanus sativus* and were statistically significant ($p < 0.001$). The level of total cholesterol and total protein in the FJRS treated rats were elevated significantly ($p < 0.01$ in the group 1, 2 & 3 when compared to control. The levels of G6PD in the FJRS treated rats were decreased significantly ($p < 0.02$) in treated animals when compared to control.

In the female rats the weight of the ovary has decreased significantly ($p < 0.001$) as compared to control. For the vaginal cornification the observation has revealed that there was percent increase in the number of cornified cells. As the dose was increased the % of cornified cells increased significantly ($p < 0.02$).

Decreased number of corpora lutea, number of implantations, number of pups, and weight of the pups has been observed in treated animals as compared to control.

Irregular estrous cycle has been observed in treated animals as compared to control; there is continuous prolongation of each of the estrous phases, in estrous cycle. The number of estrous cycle/ day and average number of estrous days in the FJRS treated rats were increasing in the treated animals when compared to control.

Animal in the control group have shown normal estrous cycle for 15 days. The diestrous stage was found normal for 57 hours proestrous for 12 hours oestrous for 12 hours and the metaestrous stage was found normal for 21 hours. But group 1 (1ml/100g) have shown prolongation in proestrous, estrous and diestrous phase for 48 hours 84 hours and 228 hours respectively. And group number 2 (2ml/100g) have shown prolongation of proestrous phase, oestrous phase, diestrous phase and metaestrous phase for 36 hours 72 hours, 171 hours and 48 hours respectively. Group number 3 have shown prolongation of proestrous phase estrous phase, diestrous phase and metaestrous phase for 60 hours 96 hours 342 hours and 84 hours respectively.

Conclusion:

The present study was done for the investigation of fertility studies of *Raphanus sativus*. The results obtained from the present study have shown that *Raphanus sativus* possess antifertility activity. It causes decreased in sperm count, motility and the weight of testis and epididymis in male rats. In female rats *Raphanus sativus* disturbed the estrous cycle along with increase in cholesterol & protein content and decreased the G6PD level.

Raphanus sativus was found to decrease the number of implantations, average number of pups delivered, average weight of the pups, number of corpora lutea, and weight of ovary.

Keeping in view the encouraging result obtained from this plant, it may be utilized as an antifertility agent. The wide spread availability of this plant makes it attractive candidate for further preclinical and clinical research.

Brief Summary of the Thesis Work Carried Out During Ph. D

Summary

Diabetes Mellitus has assumed the status of epidemic resulting in total estimated expenditures for diabetes approaching \$132 billion. The prevalence of diabetes for all age-groups worldwide was estimated 2.8% in 2000 and to be 4.4% in 2030. It is believed to be one of the main criterions for deaths in United States, every year. The total number of people with diabetes is projected to rise from 171 million in 2000 to 366 million in 2030. The developing

countries are projected to double the number of diabetics in the same duration and India holds first rank among all countries.

Diabetic Symptoms, which may arise due to insulin lack, are high blood glucose levels, polyuria, polydipsia, polyphagia, asthenia and diminished utilization of carbohydrates for energy. Though, Diabetes mellitus is not completely curable but, it is controllable if the patient takes responsibility of their diet, exercise and medication. Advances in diabetes research have led to better ways of controlling diabetes and treating its complications. The complications of DM involve many systemic complications like diabetic neuropathy, retinopathy, nephropathy, unexplained weight loss and peripheral atherosclerotic vascular diseases. Obesity, one of the complications in DM, decreases the number of insulin receptors in the insulin target cells throughout the body.

In addition to insulin, which is taken by injection in IDDM, four types of medications (oral hypoglycemics) are used to help control non insulin-dependent diabetes mellitus. Each type of medicine helps lower blood sugar in a different way, and show side effects such as dizziness, mild drowsiness, heart burn, changes in taste, changes in appetite, mild nausea, vomiting, stomach pain, fullness or discomfort in the stomach, constipation, frequent urination or increased urine output.

So not only economy but also the prominent side-effects of such drugs are the main reason for an increasing interest in alternative therapies with less severe or no side-effects. Several medicinal plants and their products (active natural principles and crude extracts) have been used to control diabetes in the traditional medicinal systems of many cultures worldwide, including those of the Asian Indians, Chinese and South Americans. Many indigenous Indian medicinal plants have been found to be useful to successfully manage diabetes.

The herbal drugs show delayed onset of action as compared with synthetic drugs while the synthetic drugs exhibit more side effects, therefore, some novel therapeutic combinations of synthetic and herbal drugs are being investigated for better effects viz. reducing the dose, cost and side effects. The herbal drugs can modify the pharmacokinetic and pharmacodynamic property of the synthetic drugs. So the combinations can be used safely to obtain sustained and prolonged therapeutic effects.

Present study investigates the effects of combined use of synthetic drug Pioglitazone in reduced doses with *Momordica charantia* (MC) fruit extract and *Gymnema sylvestre* (GS) leaves extract obtained by cold aqueous percolation method, on biochemical parameters in normal and streptozotocin (STZ) induced Type-2 diabetic rats. The preliminary phytochemical screening of extracts revealed the presence of steroids, alkaloids, triterpenoid saponins etc.

Albino Wistar rats weighing 150-200 g were fed on high fat diet, and blood glucose and lipid profile measurements carried out to select sufficiently obese animals. Injection of freshly dissolved STZ was used to induce the diabetes. Animals exhibiting blood glucose levels in the range of 275 and 350 mg/dl after 48 hours of STZ administration were considered diabetic and were selected for the studies. They were divided into total 15 groups. Treatment started by individual as well as with combination drugs where decreasing doses (75%, 50% & 25%) of PGL were given with 300mg/kg dose of either MC or GS or both and the possibility of reducing dosing frequency (every 10th day) of PGL (100%) in combination with daily standard dose of MC or GS or both for 40 days has been explored.

For the selection of the doses of the extracts the Oral Glucose Tolerance Test (OGTT) has been performed. There was no significant abnormality observed in the acute toxicity studies and there was no mortality at the end of 72 hours even at dose of 2 g/kg body weight. During the 40 days Treatment, samples were collected at 15, 30 40 days

to assess blood glucose concentrations, kidney function test (plasma creatinine levels, blood urea level, uric acid and urine volume), liver function test (SGOT, SGPT, total bilirubin level), lipid profile. Organ weight (liver and kidney) and body weight were determined at the end of study. Behavioral studies (anxiety and depression) were performed on 15th and 30th day to assess CNS toxicity.

The findings of this study reveal that *Gymnema Sylvestre* and *Momordica charantia* controls the blood glucose level alone and when given along with pioglitazone can reduce its dose by up to 50 percent. Our results also show that reduced doses of Pioglitazone with *Gymnema Sylvestre* and *Momordica charantia* has controlling effect on the elevation of blood urea, blood uric acid, creatinine, cholesterol and triglyceride while showing some elevation in HDL level.

In the groups 6,7 ,8 and 10,11 & 12 where the PGL was given in combination with MC or GS in reducing doses (75%, 50% & 25%) respectively, a dose dependent effect on the parameters were observed. In groups with 25% doses of PGL the results were not encouraging, however, the 75% dose of PGL in combined form showed almost similar effect as Group 9 where 100% dose of PGL only was given. The 50% dose of PGL with either MC (Group 7) or GS (Group 11) have shown somewhat similarity in the results with group 5 (MC+GS) and can be considered optimum. In another set of groups where the PGL was given in decreased frequency (every 10th day) the promising results were observed comparable to groups with 75% and 50% regular doses of PGL along with MC and GS. In this set of groups the last group where both the extracts with PGL 100% every 10th day was given to the animals produced most encouraging results compared with all treatment groups not only from point of view of attaining normal blood glucose levels but also the reduction in body weight and increase in kidney weight and urine volume were found to normalize. Reversal in anxiety and depressive behavior of the diabetic rats was observed in treatment groups. The elevated blood glucose level in diabetic conditions was found better controlled in the present study. The reduced and reducing doses combinations showed better renoprotective, hepatoprotective and neuroprotective effect as compare to Pioglitazone alone.

With the help of the above analysis of the results it is evident that the dose strength and dose frequency of the PGL can be reduced up to 50% and frequency up to every 10th day and almost similar result observed as with 100% dose of the PGL. All the results were statistically significant ($p < 0.001$).

Annexure: II

INSTRUCTIONAL MATERIALS PREPARED

[For M.Pharm, Pharm D, B.Pharm, MBBS & Nursing-subjective & experimental]

- Advanced Lab Manual for Pharm D Pharmacology practical.
- Presentation on Synthesis storage and release of Sympathetic neurotransmitters. (Neuropharmacology)
- Presentation on Pharmacology of Anticancer Drugs. (Onco-pharmacology)

- Presentation on Receptor Transducer Mechanisms. (Molecular Pharmacology)
- Presentation on RAS/RAF/MEK/ERK Signaling Pathway. (Molecular Pharmacology)
- Presentation on JNK/SAPK Signaling Pathway. (Molecular Pharmacology)
- Presentation on P-38 Signaling Pathway. (Molecular Pharmacology)
- Presentation on the PI3/AKT/mTOR Signaling Pathway. (Molecular Pharmacology)
- Presentation on Cell cycle and Growth Factor. (Molecular Pharmacology)
- Presentation on Angina Pectoris and its treatment. (Cardiovascular Pharmacology)
- Presentation on Hypertension and its treatment. (Cardiovascular Pharmacology)
- Presentation on CHF and its treatment. (Cardiovascular Pharmacology)
- Presentation on the pharmacology of Diuretics. (Cardiovascular Pharmacology)
- Presentation on Pharmacokinetics. (General Pharmacology)
- Presentation on Pharmacodynamics. (General Pharmacology)
- Presentation on Toxicology. (General Pharmacology)
- Presentation on Metabolism of Nucleic Acid.
- Presentation on Pharmacology of the Endocrine system (LH, FSH, Estrogen, Progesterone, oxytocin, Testosterone, Progestin). (Endocrine Pharmacology)
- Presentation on Serotonin. (Neuropharmacology)
- Presentation on Reproductive cycle.
- Presentation on Targets for treatment of Diabetes Mellitus & Novel Trends and Approaches.
- Presentation on Adverse Drug Reactions.
- Presentation on Drug Interactions.
- Presentation on Medication Errors, Adherence and Counseling. (Pharmacotherapeutics)
- Presentation on Pharmacology of Anti-Arrhythmic Drugs. (Cardiovascular Pharmacology)
- Presentation on Pharmacology of Anti-Hyperlipidemic Drugs. (Cardiovascular Pharmacology)
- Presentation on Pharmacology of Autonomic Nervous system. (Neuropharmacology)
- Presentation on Protein Synthesis. (Molecular Pharmacology)
- Presentation on Myocardial Infarction. (Cardiovascular Pharmacology)
- Presentation on Introduction to experimental Pharmacology.
- Presentation on Instruments and procedures used in experimental pharmacology.

Lecture Videos prepared and uploaded online for following topics.

https://www.youtube.com/channel/UC7GnVgaxxS8jKi8CT0h7hCw?view_as=subscriber

- Cancer introduction part 1, 2, 3& 4

[\[https://www.youtube.com/watch?v=-YYFOokMUjo&t=19s,](https://www.youtube.com/watch?v=-YYFOokMUjo&t=19s)

[https://www.youtube.com/watch?v=gli8a-4dLhM&t=483s,](https://www.youtube.com/watch?v=gli8a-4dLhM&t=483s)

[https://www.youtube.com/watch?v=LlnBevLvHmg,](https://www.youtube.com/watch?v=LlnBevLvHmg)

[https://www.youtube.com/watch?v=fDk1i8cMqwE&t=970s\]](https://www.youtube.com/watch?v=fDk1i8cMqwE&t=970s)

- Cancer Therapy Part 1 & 2

[\[https://www.youtube.com/watch?v=WDFM6fQrM8A&t=7s,](https://www.youtube.com/watch?v=WDFM6fQrM8A&t=7s)

[https://www.youtube.com/watch?v=gli8a-4dLhM&t=483s\]](https://www.youtube.com/watch?v=gli8a-4dLhM&t=483s)

- Cancer Therapy: General toxicity of Cytotoxic drugs
[\[https://www.youtube.com/watch?v=YaWdI1HiBx0&t=316s\]](https://www.youtube.com/watch?v=YaWdI1HiBx0&t=316s)
- Cancer Therapy: Chemotherapy-Alkylating agents part 1 & 2.
[\[https://www.youtube.com/watch?v=cwlejjLeflA&t=845s,](https://www.youtube.com/watch?v=cwlejjLeflA&t=845s)
[https://www.youtube.com/watch?v=kWvdGqmE4bM&t=2s\]](https://www.youtube.com/watch?v=kWvdGqmE4bM&t=2s)
- Epilepsy & Anti-Epileptic drugs.
[\[https://www.youtube.com/watch?v=2K_wFqADLI4&t=14s\]](https://www.youtube.com/watch?v=2K_wFqADLI4&t=14s)
- Ant-Epileptic Drugs part-2 and 3.
[\[https://www.youtube.com/watch?v=NXedgcZbAys,](https://www.youtube.com/watch?v=NXedgcZbAys)
[https://www.youtube.com/watch?v=a_I2yVnlTE8\]](https://www.youtube.com/watch?v=a_I2yVnlTE8)
- Sedative hypnotic drugs part 1 and 2
[\[https://www.youtube.com/watch?v=spLLmh9enwE&t=4s,](https://www.youtube.com/watch?v=spLLmh9enwE&t=4s)
[https://www.youtube.com/watch?v=PjwqJfYj6TU&t=7s\]](https://www.youtube.com/watch?v=PjwqJfYj6TU&t=7s)
- Antiviral drugs-Part-1 & 2
<https://www.youtube.com/watch?v=c-e1zabOpX4&t=9s>
<https://www.youtube.com/watch?v=c-e1zabOpX4&t=9s>
- Gene Mapping
<https://www.youtube.com/watch?v=8I4dXZZpSDs&t=1338s>
- Gene Cloning Part 1, 2 & 3
<https://www.youtube.com/watch?v=KaVteNDyVTw&t=69s>
[\https://www.youtube.com/watch?v=pHDdPnJ3j1w](https://www.youtube.com/watch?v=pHDdPnJ3j1w)
https://www.youtube.com/watch?v=biK_31zWbhg
- Female sex hormones Part-1, 2,3 & 4
<https://www.youtube.com/watch?v=BrMJFUA2YN8>
<https://www.youtube.com/watch?v=CDtdZT2bdSs>
<https://www.youtube.com/watch?v=D6FgpkDTCDY&t=7s>
<https://www.youtube.com/watch?v=-oishyFEDbU&t=1174s>
- Biosensors
<https://www.youtube.com/watch?v=vLt2gAoFsTk&t=7s>
- Antifungal Agents
<https://www.youtube.com/watch?v=XxcLj7EhaOc>
- Antitubercular drugs
<https://www.youtube.com/watch?v=OiQfXXC7egs>
- General anesthetics Part-1, 2 & 3
<https://www.youtube.com/watch?v=JBcGHwuGJpI>
<https://www.youtube.com/watch?v=a0m3LTkNHw>
<https://www.youtube.com/watch?v=KCw9ogdn1MA>

□Local Anesthetics part-1 & 2

<https://www.youtube.com/watch?v=ErvWnX1DVgo>

<https://www.youtube.com/watch?v=k8ZeeqQL4zU>

□Anti Anxiety drugs

<https://www.youtube.com/watch?v=q1w441Gn5E8>

□Antidepressants part 1 & 2

<https://www.youtube.com/watch?v=fy91YwBN7fc>

<https://www.youtube.com/watch?v=TxsJcp9mico>

Declaration

I hereby solemnly affirm that the information given in this application form is true and correct to the best of my knowledge and belief. I understand that if any of the information given by me in this form is found incorrect, my candidature is liable to be cancelled at any stage without assigning any reason. I confirm that I shall abide by the decision/s of the organization with regard to my application.

Place: Muvattupuzha, Ernakulam, Kerala



Dr. Bharat Mishra