

Kumaun University, Nainital
Curriculum Vitae

Name : Dr. Lalit Mohan
Designation : Assistant Professor (Contract)
Department : Chemistry

Contact Information

- Email Address : lalit_mohan99@rediffmail.com
- Mobile No : 9548324338

LinkedIn Profile (Optional) :

ORCIDID : <https://orcid.org/0009-0001-3658-2415>
Scopus ID : <https://www.scopus.com/dashboard.uri?origin>
Vidwan ID : <https://vidwan.inflibnet.ac.in/profile/513323>

Educational Qualification

Degree	University	Subjects	Year
Ph.D.	Kumaun University	Natural Product Chemistry	2010
M. Sc.	Kumaun University	Chemistry	2005
B. Sc	Kumaun University	ZBC	2003
B. Ed.	H.N.B.Garhwal University	Maths/Science	2006

Work Experience

Position	Department	University/Organization	Year
Assistant Professor (Samvida)	Chemistry	Kumaun University	13 year 07 month

Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Program Officer	NSS	DSB Campus Unit Kumaun University	2016 to till date
Member Admission committee	B.Sc. II Year	DSB Campus	2011-12
Member Admission committee	M.Sc. I Year	DSB Campus	2012-22

Member Admission committee	B.Sc. II Year	DSB Campus	2012-14
Member Admission committee	B.Sc. III Sem	DSB Campus	2017-21
Member External Flying Squad	University examination	Kumaun University	2011-2024

Research Interests

- Natural Product Chemistry, Solvent Extraction, Isolation and purification by Different Chromatographic technic GC, GC-MS, Mass spectrometer, HPLC, Characterisation by different Spectroscopic technic like UV, IR, ¹H NMR, ¹³C NMR, DEPT, NOSY, COSY.
- Antibacterial, Antifungal and Anti-oxidant activity.
- Aromatic and Medicinal Plants of Himalayan region

Publications

a) Research Papers

SN	Authors name	Title of the paper	Journal, vol, page no	Year
1	Leelawati Nitwal, Manisha Palni, Lalit Mohan , Anand B. Melkani, and Lalit S. Bisht	Chemical composition and antibacterial assay of essential oil from <i>Thalictrum punduanum</i> Wall.	International Journal Of Research In Pharmaceutical Sciences14(4), 209-215	2023
2	Rajendra Prasad, Anand B. Melkani, Lalit S. Bisht, Lalit Mohan , Archana N. Sah and Shubhangi Mehra	The essential oil composition, antimicrobial activity and antioxidant assay of the extracts from aerial parts of <i>Dicliptera roxburghiana</i> Nees.	Indian Journal of Natural Products and Resources 14(4), 591-601	2023
3	M. Palni, L. Nitwal, A. B. Melkani & Lalit Mohan ,	Terpenoid composition and antibacterial assay of whole aerial parts and roots of	Journal of essential Oil Bearing Plants 26(3), 590- 601	2023

		<i>Plectranthus striatus</i> Wight ex Hook. f.		
4	L. S. Bisht, A. B. Melkani, R. Prasad, Lalit Mohan, M. Palni, and L. Nitwal	Chemical Composition and Antimicrobial Assay of Essential Oil from Whole Aerial Parts of <i>Ainsliaea aptera</i> DC. Collected from two Different Regions of Central Himalaya,	Journal of Essential Oil Bearing Plants 24 (3) 510 – 518	2021
5	Charu C. Pant, Anand B. Melkani and Lalit Mohan	Composition and antimicrobial Activity of the essential oil from <i>Aechmenthara gossypina</i> (wall.) Nees	International Journal of Green and Herbal Chemistry 9, No.9, 283-290.	2020
6	Lalit Mohan, Reema priydarshi,, Anand B. Melkani and Charu C. Pant	Chemical composition and antibacterial activity of the steam volatile extract from <i>Salvia coccinea</i> Juss. ex Murr	International Journal of Green and Herbal Chemistry 8, No.3, 277-285	2019
7	Deepshikha Joshi, Manoj K. Nailwal, Lalit Mohan and Anand B. Melkani	<i>Ligulariya amplexicaulis</i> (wall) DC Essential oil composition and antibacterial activity.	Journal of Essential Oil Research, 30, 189-196. [ISSN- 1041-2905,	2018
8	Lalit Mohan and Anand B. Melkani	Therapeutic Impact of Volatiles from <i>Agrimonia aitchisonii</i> Schnobeck Temesy and <i>Pimpinella acuminata</i> (Edgew.) CB Clarke	J. Chem. Eng. Chem. Res. 3, 11, 1062-1066	2016

9	Anand B. Melkani*, Lalit Mohan and Charu C. Pant.	Diterpene rich essential oil from <i>Anisomeles indica</i> (L.) O. Kuntz. and its antimicrobial activity.	World Journal of Pharmaceutical Research 5, 5, 932-943	2016
10	Reema Priydarshi, Anand B. Melkani, Lalit Mohan and Charu C. Pant	Terpenoid composition and antibacterial activity of the essential oil from <i>Inula cappa</i> (Buch-Ham. ex. D. Don) DC	Journal Of Essential Oil Research, 28, (2) 172- 176	2016
11	Lalit Mohan and Bhawna Bhat	Screening of antibacterial potential of root extracts of <i>Solanum xanthocarpum</i> <i>Schrad.</i> and Wendl	Journal of Medicinal Plants Research, 7(13), 749-752	2013
12	Anand B. Melkani, Monoj Nailwal, Lalit Mohan , Charu C. Pant and Vasu Dev	Steam Volatile terpenoids from <i>Scutellaria repens</i> Buch-Ham. ex D. Don and their Bioactivity,	Journal Of Essential Oil Research, 25(5):368- 371	2013
13	Charu C. Pant, Anand B. Melkani, Lalit Mohan and Vasu Dev	Composition and Antibacterial Activity of Essential oil from <i>Scutellaria grossa</i> Wall ex Benth.	Natural Product Research. 26(2) 190- 192	2012
14	Anand B. Melkani, Lalit Mohan , Charu C. Pant, Anuradha Negi, and Vasu Dev	Composition And Antibacterial Activity of Essential Oil from <i>Salvia hians</i> Royle Ex. Benth,	Journal of Essential oil bearing plants, 14(6) 667-672	2011
15	Lalit Mohan , Anuradha Negi, Anand B. Melkani and Vasu Dev,	Composition and antibacterial activity of the Essential oil from <i>Salvia mukerjeei</i> Bennet & Raizada	Natural Product Communications, 6, 1949 - 1952	2011
16	Lalit Mohan , Charu C. Pant,	Terpenoid composition of	Natural Product Communications	2010

	Anand B. Melkani and Vasu Dev	the essential oil from Two species <i>Teucrium quadrifarium</i> and <i>Teucrium royleanum</i>	5, 939-942	
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b) Book chapters

Authors name	Title of the book	Publisher	ISBN	Year
Lalit Mohan , A. B. Melkani and Deepshikha Joshi	Chemical composition and antimicrobial activity of essential oils of <i>Salvia</i> Species from Uttarakhand / Modern Trends in Medicinal and Aromatic Plants	Indu book Services Pvt. Ltd. Daryagang New Delhi-110002	978-93-91377-78-6	2023
Lalit Mohan and A. B. Melkani	Terpenoid Composition and Bioactivity of essential oil from <i>Helenium grandiflorum</i> (Willd)/ Science and Technology in Uttarakhand & Uttarakhand State Council for Science and Technology	Bishan Singh Mahendra Pal Singh, 23-A, New Cannaught Place. Dehradun	978-81-211-0887-4	2011

Dissertations guided: 26 Students M.Sc. (Organic Chemistry) – 2012 to 20223

Teaching details

Name of the course/paper	Department	University	Year
Organic and Physical Chemistry (B. Sc I Year)	Chemistry Department	Kumaun University	2010-11
Inorganic Chemistry (B. Sc. III Year)	Chemistry Department	Kumaun University	2010-11

Practical (B. Sc I, II, III year)	Chemistry Department	Kumaun University	2010 to till date
Organic Chemistry (M. Sc. I Year)	Chemistry Department	Kumaun University	2010-11
Organic Chemistry (M. Sc. II Year)	Chemistry Department	Kumaun University	2010-11
Practical (M. Sc. I, II Year)	Chemistry Department	Kumaun University	2010 to till date
Organic and Physical Chemistry (B. Sc I Year)	Chemistry Department	Kumaun University	2011-12
Organic Chemistry (B. Sc. II Year)	Chemistry Department	Kumaun University	2011-12
Organic Chemistry (B. Sc. III Year)	Chemistry Department	Kumaun University	2013-22
Organic Chemistry, Isopoly and Heteropoly, Radioanalytical technique, X-Ray Diffraction, (M. Sc. I Year)	Chemistry Department	Kumaun University	2011-17
Electrophilic substitution reaction, Chromatography, Bio Inorganic, Bio Organic chemistry (M. Sc. I Year/Semester)	Chemistry Department	Kumaun University	2017-2024
Mass Spectrometry, Free radical, (M. Sc. II Year/Semester)	Chemistry Department	Kumaun University	2014-2024
Organic Chemistry, Raman Spectroscopy, Nucleophilic aromatic substitution,	Chemistry Department	Kumaun University	2011-2024

Alkaloids, Hetrocyclic chemistry (M. Sc.II Year, III & IV Sem.)			
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Honours and Awards

Award	Awarding Organization	Year
Best poster presentation of "Recent Research in Chemistry	R.H. Govt.P. G. College Kashipur	2005
Young Scientist	Uttarakhand State council for Science and technology	2011

Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
In vitro antimicrobial activity of volatile extract from the aerial parts of <i>Chaerophyllum acuminatum</i>	2 nd International conference on "Energy functional materials, Nanotechnology & Sustainable environment Management" (ICEFN & SEM -2019)	Department of Chemistry Kumaun University Nainital.	2019
In vitro antibacterial and antioxidant activity of volatile extract from the aerial parts of <i>Hypericum perforatum</i> L.	8 th Conference of The Indian Science Congress Association (Haridwar Chapter),	Kumaun University Nainital	2017
In vitro Antibacterial and antioxidant Activity of essential oil from aerial parts of <i>Scutellaria</i> and <i>Plactranthus</i> Species	19 th International Conference of International Academy of Physical Sciences & Symposium on Fixed	Kumaun university Nainital	2016

from Himalayan region.	Point Theory and Dynamical Systems		
Therapeutic Impact of Volatiles from <i>Agrimonia aitchisonii</i> Schnobeck Temesy and <i>Pimpinella acuminata</i> (Edgew.) CB Clarke	1 st International conference on “Energy fuctional materials & Nanotechnology” (ICEFN-2016)	Department of Chemistry Kumaun University Nainital,	2016.
Screening of antimicrobial potential of root extracts of <i>Scutellaria scandense</i> D. Don	1 st International conference on New horizons in pharmaceutical & biomedical sciences	pharmaceutical & biomedical sciences Dehradun and Shetal Industries Dehradun	2013
Screening of antimicrobial potential of root extracts of <i>Salvia mukherjeei</i> Bennt & raizada	Uttarakhand state Science & Technology congress	Graphic Era University, Dehradun	2012
Bioactivity of essential oil and pure compounds isolated from <i>Senecio</i> and <i>Helenium</i> species	6 th International Conference on Green Technologies for Environmental Rehabilitation	Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar	2012
Terpenoid composition of the essential oil and Bioactivity from <i>Helenium grandiflorum</i> (Wild) O.Kuntze	6 th Uttarakhand state Science & Technology congress	S. S. J. Campus Almora Kumaun University, Nainital	2011

Terpenoid composition and Antimicrobial potential from species of <i>Scutellaria</i> growing in Uttarakhand	National conference on Emerging trends in chemistry-Biology Interface	Chemistry Department, D. S. B. Campus, Kumaun University, Nainital	2011
Rich diterpene and antimicrobial activity from the essential oil of <i>Anisomeles indica</i> (L.) O. Kuntze	National Conference	D.B.S. College, Dehradun	2011
Antimicrobial Efficacy of Essential oil from Species of <i>Salvia</i> Growing in Uttarakhand	5 th Uttarakhand state Science & Technology congress	Doon University, Dehradun	2010
Screening of essential oil from the <i>Salvia</i> species grow in Uttarakhand for Antimicrobial Potential	National Seminar on "Chemistry Biology Interface: Recent Trends"	Govt. Post Graduate College, Ranikhet	2010
Analysis of steam volatile components from the species of <i>Salvia</i> growing in the Central Himalayan region of India	2 nd Rashtriya Yuva Vaigyanik Sammelan	Doon University, Dehradun	2010
Antimicrobial activity of steam volatile components from the species of <i>Salvia</i> growing in the Central	First National Conference on Identifying the Research Basis for Sustainable Development of the Kumaun Region	Amarpali Institute of Technology & Science, Lamachaur, Haldwani	2010

Himalayan region of India			
Terpenoid composition of the essential oils from two species of <i>Teucrium</i> and its chemosystemics	4 th Uttarakhand state Science & technology congress	GB Pant University of Agriculture & Technology, Pantnagar	2009
Chemical composition and antimicrobial activity of the essential oil from <i>Salvia hians</i> Royal ex. Benth	3 rd Uttarakhand state Science & technology congress	IIT Roorkee	2008



Signature of the faculty member