		Cur	riculuı	m Vitae	
Name:		Dr. Sunil Kum	ar		
		C	areer P	rofile	
Designation	1	Assistant Professo	r		
Department		Chemistry			
		Sant Kavi Baba B Harakh Barabanki		Government PG College	
Duration		17 December, 201	5 to Pre	esent	WINNAMINO
Role		Teaching and Rese	earch		
Contact		8052608460, 7985	998474	, sunilchem1986@gmail.c	<u>om</u>
Web-Page		https://gpgchb.org/			
Publications 38 Research paper			s (IF: 0	-5.645): Elsevier, Wiley O	Online Library, Taylor &
		Francis Online, Spi	ringer, S	AGE Publications	
		2 Books: Routledg	e & CR	C Press Logo - Taylor & I	Francis Group.
		7 Chapters: Spring	er Natu	re, Apple Academic Press	& CRC Press,
			Educa	tion	
Degree	Institution		Year	Details	
Ph.D.	Jawaharlal 1	Nehru University,	2013-	Thesis Title: Application	n of mass spectrometric
	New Delhi		2017	techniques in qualitative	and quantitative analysis
				of phytoconstituents and	l identification of chemica
	(Worked in	CSIR-Central Drug		markers by chemometric	e technique in <i>Phyllanthus</i>
	Research In	stitute, Lucknow)		and Rauwolfia Spp.	
M.Sc.	CSJM Uni	versity, Kanpur	2010	Chemistry	
B.Sc.	CSJM Uni	versity, Kanpur	2008	Chemistry, Zoology, Bo	tany
10+2 th	UP Board		2005	Hindi, English, Physics,	Chemistry, Biology
10 th	UP Board		2003	Hindi, English, Science,	Social Science,
				Mathematics, Drawing	
		Fell	owshins	s/Awards	

- CSIR-Junior Research Fellowship (JRF) -2013
- CSIR- Senior Research Fellowship (SRF)-2015
- Graduate Aptitude Test in Engineering (GATE)-2012
- Common Eligibility Test (CET)-2012
- Award from CSJM University Kanpur for the contribution in Nation Education Policy (NEP).
- *Gold Award* from Elsevier- Amsterdam, Netherlands, *for Top Cited Papers 2020* of *Journal of Pharmaceutical Analysis* for article entitled "Identification and characterization of phenolics and terpenoids from ethanolic extracts of Phyllanthus species by HPLC-ESI-QTOF-MS/MS"
- Silver Award Elsevier- Amsterdam, Netherlands, for Top Cited Papers 2020 of Journal of Pharmaceutical Analysis for article entitled "Analysis of isoquinoline alkaloids from Mahonia leschenaultia and Mahonia napaulensis roots using UHPLC-Orbitrap-MSn and UHPLC-QqQLIT-MS/MS"

Professional Societies Memberships

- Member of Indian Science Congress Association (Life time Member)
- Assistant Zonal Officer (Spoken Tutorial-Indian Institute Bombay)
- Editorial Board Member for Journal of Complementary and Alternative Medicine
- Editorial Board Member for Journal of Exploratory Research in Pharmacology
- Editorial Board Member for Pharmacy and Drug Development
- Invited reviewer in PLOS ONE
- Invited reviewer in Springer Nature
- Invited reviewer in Journal of Food Function, Royal Chemistry Society
- Invited reviewer in Natural Product Research
- Invited reviewer in Asian Journal of Natural Product Biochemistry
- Invited reviewer in Frontiers in Sustainable Food Systems

	Publications								
S.	Authors Title Name of Jour			Volume	Issu	Page	Year		
No.					e				
1.	Katare, A.K., Singh, B,	Optimisation of Extraction Process	Chemistry Africa,	5	3	1-9	2022		
	Kumar, S., Roy, S., for negundoside and agnuside		Springer						
	Gupta, A.P., Kumar, A., from Vitex Negundo L. leaves								
	Singh, B., Tabassum,	using soxhlet extraction, HPLC-							

	A., and Sharma, A.K.	MS/MS and CCD-RSM Methods.					
2.	Kumar, S., Kumari,	Genus Rauvolfia: A review of its	Journal of	296	15	1153	2022
	D., B. and Singh, R.	ethnopharmacology,	Ethnopharmacology			27	
		phytochemistry, quality	(IF: 4.360),				
		control/quality assurance,	Elsevier				
		pharmacological activities and					
		clinical evidence.					
3.	Kumar, S., Singh, B.	Traditional uses, phytochemistry,	Phytomedicine Plus,	2	3	1002	2022
	and Bajpai, V.,	quality control and biological	Elsevier			90	
		activities of genus Grewia.					
4.	Kumar, S., Singh, B.	Catharanthus roseus (L.) G. Don:	Journal of	285	-	1146	2022
	and Singh, R.	A review of its ethnobotany,	Ethnopharmacology			47	
		phytochemistry,	(IF: 4.360), Elsevier				
		ethnopharmacology and toxicities.					
5.	Kumar S., Bajpai V.,	Andrographis paniculata (Burm.f.)	Journal of	275	-	1140	2021
	Singh B.	Nees: Traditional uses,	Ethnopharmacology			54	
		phytochemistry, pharmacological	(IF: 4.360), Elsevier				
		properties and quality					
		control/quality assurance.					
6.	Kumar S., Singh A.,	Screening of monoterpene indole	Separation Science	2	8	300-	2019
	Kumar B.	alkaloids in six Rauwolfia species	Plus, Wiley Online			308	
		by ultra-high performance liquid	Library				
		chromatography Orbitrap Velos					
		Pro mass spectrometer.					
7.	Kumar S., Singh A.,	Identification and characterization	Separation Science	1	12	762-	2018
	Bajpai V., Sharma	of terpenoid lactones and	Plus, Wiley Online			770	
	K.R., Kumar B.	flavonoids from ethanolic extract	Library				
		of Andrographis paniculata (burm.					
		F.) Nees using liquid					
		chromatography/tandem mass					
		spectrometry.					
8.	Kumar, S., Singh A.,	Structural characterization and	Separation Science	1	9	588-	2018
	Singh B., Maurya, R.,	quantitative determination of	Plus, Wiley Online			596	
	Kumar, B.	bioactive compounds in ethanolic	Library				
		_					

		extracts of Boerhaavia diffusa L.					
		by liquid chromatography-tandem					
		mass spectrometry.					
9.	Kumar, S., Bajpai, and	Study of geographical variation in	Brazilian Journal of	4	17	16-	2018
	Srivastava, M.; Kumar,	Phyllanthus amarus Schum &	Analytical Chemistry			23	
	В	Thonn using DART-TOF-MS					
		combined with PCA.					
10.	Kumar, S., Singh, A.,	Simultaneous quantitative	Journal of	151	-	32-	2018
	Kumar, B., Singh, B.,	determination of bioactive terpene	Pharmaceutical and			51	
	Bahadur, L. and Lal,	indole alkaloids in ethanolic	Biomedical Analysis				
	M.	extracts of Catharanthus roseus	(IF: 3.935), Elsevier				
		(L.) G. Don by ultra high					
		performance liquid					
		chromatography-tandem mass					
		spectrometry.					
11.	Kumar, S., Bajpai, V.,	Identification, characterization and	Rapid	32	4	319-	2018
	Singh, A. and Kumar,	distribution of terpene indole	Communications in			332	
	B.	alkaloids in ethanolic extracts of	Mass Spectrometry				
		Catharanthus roseus using	(IF: 2.419), Wiley				
		HPLC/ESI-QTOF-MS/MS and the	Online Library				
		study of their geographical					
		variation.					
12.	Singh, A., Kumar, S.	LC-MS Identification of	Natural Product	13	5	555 -	2018
	and Kumar, B.,	Proanthocyanidins in Bark and	Communications			560	
		Fruit of six <i>Terminalia</i> species.	(IF: 0.986), SAGE				
			Publications				
13.	Kumar, S., Singh, A.,	UPLC-ESI-QqQLIT-MS/MS	International Journal	21	1	343-	2017
	Kushwaha, A. K.,	method for quantitative	of Food Properties			359	
	Tiwari, R., Chaudhary,	determination of phytochemicals	(IF: 2.727), Taylor &				
	L. B.; Srivastava, M.,	in ethanolic extracts of different	Francis Online				
	Kumar, B.	parts of eight Ficus species					
14.	Singh, D., Kumar, S.,	Bioguided chemical	Medicinal Chemistry	26	26	3307-	2017
	Pandey, R., Hasanain,	characterization of the	Research (IF: 1.965),			3314	
	M., Sarkar, J. and	antiproliferative fraction of edible	Springer				

	Kumar, B.	pseudo bulbs of Malaxis					
		acuminata D. Don by HPLC-ESI-					
		QTOF-MS					
15.	Kumar, S., Singh, A.,	Development of a	Journal of Separation	40	17	3422-	2017
	Bajpai, V., Singh, B.	UHPLC-MS/MS method for the	Science (IF: 3.645),			3429	
	and Kumar, B.	quantitation of bioactive	Wiley Online Library				
		compounds in Phyllanthus species					
		and its herbal formulations.					
16.	Bajpai, V., Kumar, S.,	Metabolic fingerprinting of	Industrial Crops	101	-	46-53	2017
	Singh, A., Bano, N.,	dioecious Tinospora cordifolia	Products (IF: 5.645),				
	Pathak, M., Kumar, N.,	(Thunb) Miers stem using DART	Elsevier				
	Misra-Bhattacharya, S.,	TOF MS and differential					
	Kumar, B.	pharmacological efficacy of its					
		male and female plants.					
17.	Singh, P., Bajpai, V.,	Metabolic profiling and	Journal of Medicinal	4	3	384-	2017
	Kumar, S., Srivastava,	discrimination of Cymbopogon	Plants			391	
	M. and Kumar, B.	species using direct analysis real					
		time mass spectrometry and					
		principal component analysis.					
18.	Bajpai, V., Kumar, S.,	Chemometric based identification	Phytochemical	28	4	277-	2017
	Singh, A., Singh, J.,	and validation of specific chemical	Analysis (IF: 3.373),			288	
	Negi, M.P.S., Bag,	markers for geographical, seasonal	Wiley Online Library				
	S.K., Kumar, N.,	and gender variations in Tinospora					
	Konwar, R. and	cordifolia stem using					
	Kumar, B.	HPLC-ESI-QTOF-MS Analysis.					
19.	Kumar, S., Singh, A.	Identification and characterization	Journal of	7	7	214-	2017
	and Kumar, B.	of phenolics and terpenoids from	Pharmaceutical			222	
		ethanolic extracts of Phyllanthus	Analysis (IF: 4.769),				
		species by HPLC-ESI-QTOF-	Elsevier				
		MS/MS.					
20.	Bajpai, V., Singh, A.,	Determination of bioactive	Journal of Medicinal	5	3	234-	2017
	Kumar, S., Sharma K.	isoquinoline alkaloids in	Plants Studies			240	
	R. and Kumar, B.,	Thalictrum reniforme Wallich and					
		Thalictrum neurocarpum Royale					

		using ultra performance liquid					
		chromatography with hybrid triple					
		quadrupole linear ion trap mass					
		spectrometer					
21.	Singh, A., Bajpai, V.,	Analysis of isoquinoline alkaloids	Journal of	7	2	77-86	2017
	Kumar, S., Rawat,	from Mahonia leschenaultia and	Pharmaceutical				
	A.K.S. and Kumar, B.,	Mahonia napaulensis roots using	Analysis (IF: 4.769),				
		UHPLC-Orbitrap-MSn and	Elsevier				
		UHPLC-QqQLIT-MS/MS.					
22.	Singh, A., Bajpai, V.,	Distribution and discrimination	Natural Product	12	11	1807-	2016
	Kumar, S., Kumar, B.,	study of bioactive compounds	Communications			1812	
	Srivastava, M., Arya,	from Berberis species using	(IF: 0.986), SAGE				
	K.R. and Sharma, K.R.	HPLC-ESI-QTOF-MS/MS with	Publications				
		principle component analysis					
23.	Singh, A., Bajpai, V.,	Comparative profiling of phenolic	Industrial Crops and	87	-	236-	2016
	Kumar, S., Kumar, B.,	compounds from different plant	Products (IF: 5.645),			246	
	Srivastava, M. and	parts of six Terminalia species by	Elsevier				
	Rameshkumar, K.B.	liquid chromatography-tandem					
		mass spectrometry with					
		chemometric analysis.					
24.	Singh, A., Kumar, S.,	Simultaneous determination of	Biomedical	31	3	e384	2017
	Bajpai, V. and Kumar,	pyrroquinazoline alkaloids and	Chromatography (IF:			7 (1-	
	В.,	flavonoids in Adhatoda beddomei	1.902), Wiley Online			10)	
		and Adhatoda vasica and their	Library				
		marketed herbal formulations					
		using ultra-high-performance					
		liquid chromatography coupled					
		with triple quadrupole linear ion					
		trap mass spectrometry.					
25.	Kumar, S., Singh, A.,	Simultaneous determination of	Phytochemical	27	5	296-	2016
	Bajpai, V., Srivastava,	bioactive monoterpene indole	Analysis (IF: 3.373),			303	
	M., Singh, B.P., Ojha,	alkaloids in ethanolic extract of	Wiley Online Library				
	S. and Kumar, B.	seven Rauvolfia species using					
		UHPLC with hybrid triple					
							<u> </u>

		quadrupole linear ion trap mass					
		spectrometry.					
26.	Kumar, S., Singh, A.,	Structural characterization of	Journal of	6	6	363-	201
	Bajpai, V., Srivastava,	monoterpene indole alkaloids in	Pharmaceutical			373	
]	M., Singh, B.P. and	ethanolic extracts of Rauwolfia	Analysis (IF: 4.769),				
	Kumar, B	species by liquid chromatography	Elsevier				
		with quadrupole time-of-flight					
		mass spectrometry.					
27.	Singh, A., Bajpai, V.,	Simultaneous quantification of	Journal of Medicinal	4	3	144-	201
]	Kumar, S.;	protoberberine and aporphine	Plants			148	
]	Rameshkumar , KB.,	alkaloids in different plant parts of					
	Kumar, B.	Coscinium fenestratum (Gaertner)					
		Colebr. By liquid chromatography-					
		hybrid triple quadrupole/linear ion					
		trap mass spectrometer.					
28.	Singh, G., Passsari,	Evaluation of phenolic content	Frontiers in plant	7	-	407	201
	A.K., Leo, V.V.,	variability along with antioxidant,	science (IF: 5.753)				
]	Mishra, V.K.,	antimicrobial, and cytotoxic					
5	Subbarayan, S., Singh,	potential of selected traditional					
	B.P., Kumar, B.,	medicinal plants from India.					
	Kumar, S., Gupta,						
ŀ	V.K., Lalhlenmawia,						
	H. and Nachimuthu,						
,	S.K.						
29.	Singh, A., Bajpai, V.,	Profiling of gallic and ellagic acid	Natural Product	11	2	239-	201
	Kumar, S., Sharma,	derivatives in different plant parts	Communications			244	
	K.R. and Kumara, B.	of Terminalia arjuna by HPLC-	(IF: 0.986), SAGE				
		ESI-QTOF-MS/MS.	Publications				
30.	Kumar, S., Singh, A.,	Identification, characterization and	Journal of	118	-	183-	201
	Bajpai, V. and Kumar,	distribution of monoterpene indole	Pharmaceutical and			194	
	В.	alkaloids in <i>Rauwolfia</i> species by	Biomedical Analysis				
		Orbitrap Velos Pro mass	(IF: 3.935), Elsevier				
		1					
		spectrometer					

	P., Bajpai, V., Singh,	analysis of bioactive compounds	Products (IF: 5.645),			152	
	A., Srivastava, M.,	from Phyllanthus amarus using	Elsevier				
	Mishra, D.K. and	LC/MS/MS techniques					
	Kumar, B.						
32.	Kumar, S., Bajpai, V.,	Rapid fingerprinting of Rauwolfia	Analytical Methods	7	14	6021	2015
	Singh, A., Bindu, S.,	species using direct analysis in real	(IF: 2.896)			-602	
	Srivastava, M.,	time mass spectrometry combined				6	
	Rameshkumar, K.B.	with principal component analysis					
	and Kumar, B.	for their discrimination					
33.	Singh, A., Kumar, S.,	Structural characterization of	Rapid	29	12	1095	2015
	Bajpai, V., Reddy, T.J.,	flavonoid <i>C</i> -and <i>O</i> -glycosides in	Communications in			-110	
	Rameshkumar, K.B.	an extract of Adhatoda vasica	Mass Spectrometry,			6	
	and Kumar, B.	leaves by liquid chromatography	(IF: 2.419) Wiley				
		with quadrupole time-of-flight	Online Library				
		mass spectrometry					
34.	Singh, A., Bajpai, V.,	Quantitative determination of	Journal of Separation	38	2007-		2015
	Kumar, S., Arya,	isoquinoline alkaloids and	Science (IF: 3.645),		2013		
		dchlorogenic acid in Berberis	Wiley Online Library				
	Kumar, B.	species using ultra high					
		performance liquid					
		chromatography with hybrid triple					
		quadrupole linear ion trap mass					
		spectrometry					
35.	Singh, A., Kumar, S.,	Screening of tricyclic quinazoline	Rapid	29	485-		2015
	Reddy, T.J.,	alkaloids in the alkaloidal fraction	Communications in		496		
	Rameshkumar, K.B.	of <i>Adhatoda beddomei</i> and	Mass Spectrometry				
	and Kumar, B.	Adhatoda vasica leaves by	(IF: 2.419), Wiley				
		high-performance liquid	Online Library				
		chromatography/electrospray					
		ionization quadrupole					
		time-of-flight tandem mass					
		spectrometry					
36.	Singh, A., Bajpai, V.,	Identification and quantification of	Bio analysis and	7	5	75	2015
- ••	Kumar, S., and	flavonoids and their glycosides for					
	1 , , ,		1				Q 11

	Kumar, B.	quality assessment of Terminalia					
		species applying liquid					
		chromatography hyphenated with					
		mass spectrometric techniques					
37.	Kumar, B, Singh, A.,	Evidence based research for	Bio analysis and	7	5	85	2015
	Pandey, R., Bajpai, V.,	quality control of Indian medicinal	Biomedicine				
	Chandra, P., and	plants using HRMS and					
	Kumar, S.	hyphenated LC/MS instruments					
38.	Bajpai, V., Singh, A.,	Ultra performance liquid	Bio analysis and	7	5	79	2015
	Kumar, S. and Kumar,	chromatography mass	Biomedicine				
	В.,	spectrometric analysis for rapid					
	Singh, B., Kumar S.	quantitation of isoquinoline					
		alkaloids in <i>Thalictrum reniforme</i>					
		Book chapters	<u> </u> 				
1.	Sunil Kumar	The Overview of Potential	Springer-	ISBN	331-	336	2024
		Antiviral Bioactive Compounds	in Advances in	978-3-			
		Poxviruses	Experimental	031-			
			Medicine and	57165-7			
			Biology				
2.	Sunil Kumar and	Phytochemistry and pharmacolo	ogySpringer Nature-	ISBN	511-	527	2023
	Bikarma Singh	of Catharanthus roseus (L.)	G.Bioprospecting of	978-3-			
		Don and Rauvolfia serpentina ((L.) <i>Tropical</i>	031-			
		Benth. ex Kurz	Medicinal Plants	28779-4			
3.	Sunil Kumar and	Traditional uses, phytochemi	icalElsevier-	ISBN-978-	203-2	219	2023
	Bikarma Singh	and pharmacological properties	ofHimalayan Fruits	0-323-			
		Grewia sps (Grewia asiatica a	andand Berries	85591-4			
		Grewia serrulata)					
4.	Bikarma Singh and	Biological and Chemical Aspects	s Apple Academic	ISBN-	1-27		2023
	Sunil Kumar	of the Genus Ajuga L.	Press & CRC	97810033			
			Press- Bioactives	46142			
			and Pharmacology				
			and Pharmacology of Lamiaceae				

	Bikarma Singh	Pharmacological Profile of	Press & CRC	17749102		
		Rauvolfia verticillata (Lour.) Baill.	Press- Bioactives	83		
			and Pharmacology	,		
			of Medicinal			
			Plants			
6.	Sunil Kumar and	An Overview on Bioactives and	Apple Academic	ISBN:978	303-31	2022
	Bikarma Singh	Pharmacology of Rauvolfia	Press & CRC	17749102		
		vomitoria Afzel.	Press- Bioactives	83		
			and Pharmacology	,		
			of Medicinal			
			Plants			
7.	Sunil Kumar	Phyllanthus amarus Schum. and	Springer	ISBN 978-	179-199	2020
		Thonn. as Herbal Medicine:	Singapore-	981-15-		
		Ethnobotany, Phytochemistry, and	Botanical Leads	5916-7		
		Pharmacology Aspects.	for Drug			
			Discovery			
Books			1			
1.	Brijesh Kumar, Sunil	Phytochemistry of Plants from	Routledge & CRC	Book	ISBN	2020
	Kumar, KP	Genus Phyllanthus.	Press Logo -		978036785	
	Madhusudana		Taylor & Francis		7554	
			Group.			
2.	Brijesh Kumar, Sunil	Phytochemistry of Plants from	Routledge & CRC	Book	ISBN	2020
	Kumar, Vikas Bajpai	Genus Rauvolfia.	Press Logo -		978036785	
	KP Madhusudana		Taylor & Francis		7523	
			Group.			

Conference/Seminar/workshop/ Faculty Development Programme (FDP)

S. No.	Paper Title	Title of Conference/ Seminar etc.	Organized by	International/ National
	Chemical fingerprinting of <i>Phyllanthus</i>	Chemistry and Medicinal	Department of	International
	amarus by liquid chromatography	Plants in Translational	Chemistry University of	
	quadrupole time of flight mass	Medicine for Healthcare (1-	Delhi	
	spectrometry.	4 march 2014)		
1.	Rapid screening of indole alkaloids in	National seminar on	Sophisticated Analytical	National

	Rauwolfia species by HPLC/ESI-	application of mass and	Instrument Facility,	
	QTOF MS/MS.	NMR techniques in drug	CSIR – Central Drug	
		research (24 September	Research Institute,	
		2014)	Lucknow	
2.	Determination of bioactive components and its geographical variation in	National seminar on application of mass and	SAIF-CDRI, Lucknow	National
	Phyllanthus amarus using UPLC	NMR techniques in drug		
	QTRAP-MS/MS.	research (24 September		
		2014)		
3.	Rapid profiling and structural	Drug discovery in India:	CDRI, Lucknow	National
	characterization of Berberis aristata	past, present and future (01		
	applying hyphenated mass	January 2015)		
	spectrometric technique.			
4.	Characterization of diterpeniods and	Current Trends in Drug	India Society of	International
	flavonoids in herbal medicinal	Discovery and Development	Chemists and Biologists	
	Andrographis paniculata by HPLC-	(25-28 February 2015)	and CDRI Lucknow	
	ESI-QTOF-MSMS			
5.	Study of geographical variation I	Fifth Uro-India International	Institute of Holistic	International
	Phyllanthus amarus using Direct	Conference on Holistic	Medicine Science	
	Analysis in Real Time Mass	Medicine (11-13 September	Kerala, India &	
	spectrometry.	2015)	Ayurveda and the	
			Ayurveda-Und Venen-	
			Klink, St. Primus Weg	
			68, A-9020, Klagenfurt,	
			Austria	
6.	Identification and quantification of	⁴ Th International Conference	Baltimore, USA	International
	flavonoids and their glycosides for	and Exhibition on Biologics		
	quality assessment of Terminalia	and Biosimilars (26-28		
	species applying liquid	October, 2015)		
	chromatography hyphenated with mass			
	spectrometric techniques.			
7.	Evidence based research for quality	⁴ Th International Conference	Baltimore, USA	International

	control of Indian medicinal plants using HRMS and hyphenated LC/MS instruments.	gand Exhibition on Biologics and Biosimilars (26-28 October, 2015)		
8.	Ultra performance liquid chromatography mass spectrometric analysis for rapid quantitation of isoquinoline alkaloids in <i>Thalictrum reniforme</i> .	⁴ Th International Conference and Exhibition on Biologics and Biosimilars (26-28 October, 2015)	Baltimore, USA	International
9.	Identification, characterization and distribution of monoterpene indole alkaloids in <i>Rauwolfia</i> species by Orbitrap Velos Pro mass spectrometer	Current Trends in Drug Discovery and Research (25-28 February 2016)	CSIR-CDRI Lucknow	International
10.	Faculty Development Programme		Department of Applied Economics, University of Lucknow	National
11.	Participation	National Seminar-Cum- Exhibition on Kisan Mela, Entrepreneurship program and Flower show (05 March 2017	CSIR–Indian Institute of Integrative Medicine (CSIR–IIIM), Jammu	National
12.	Workshop	Workshop on The applications of HRMS and LC-HRMS/MS instruments for the analysis of natural products (small molecules) (27-29 March, 2017)	SAIF-CDRI, Lucknow	National
13.	Improvement socio and economy of Uttar Pradesh By DART-MS	Growth and Social Sector Development Uttar Pradesh (6-7 April, 2017)	Department of Economics, University of Lucknow	National
14.	Identification, characterization and	International conference -	CSJM University	International

	distribution of anticancer terpene indole	Fight Against Cancer -2017	Kanpur	
	alkaloids in ethanolic extracts of	(Fac Con -2017) (05-07		
	Catharanthus roseus using HPLC-ESI-	October 2017)		
	QTOF-MS/MS and their geographical			
	variation study.			
15.	Workshop on data analysis on SPSS	Workshop on data analysis	Department of Statistics,	National
		on SPSS (October 10-16,	University of Lucknow	
		2017)		
16.	Analysis of herbal drugs by DART-MS	Science and Technology for	Shri Jai Naran P.G.	National
		New India (20 Nov, 2017)	College Lucknow &	
			CSIR-National	
			Botanical Research	
			Institute (CSIR–NBRI)	
17.	Social conflicts and environment	Recent Advances in Socio-	Shri Jai Naran P.G.	National
		Economic development of	College Lucknow	
		India: Issus and Challenges		
		(25-25 Feb, 2018)		
18.	Soil health in agriculture, organic	Sustainable development :	Netaji Subhash Chandra	International
	farming, bio-fertilizers and	Strategies and emerging	Bose Govt. Girls P.G.	
	micronutrients	trends (16-17 Nov, 2018	College Aliganj,	
			Lucknow	
19.	Effect of the menstrual cycle on	International conference-	Hanaraj Bijli Pasi Govt.	International
	medical disorders	Toward sustainable women	P.G. College Aasiana,	
		health: Decoding the	Lucknow	
		menstruation taboo (1-2,		
		Feb, 2019)		
20.	Benefits of green technology	Green Technology: A	Hemwati Nandan	National
		roadmap for sustainable	Bahuguna Govt. P.G.	
		Development (23-24 Feb	College Naini, Prayagraj	
		2020)		
21.	Smog and human health	भारतीय संस्कृति और पर्यावरण	Dr. Bheemrao	National
		सरक्षण (27-28 Feb, 2020)	Ambedkar Govt. Degree	
	•	•	•	

			College, Odndia Padariya, Mainpuri	
22.	Introduction to Information and Communications Technology		E & ICT Academy, IIT Kanpur	National
23.	Advanced Excel With Data Visualization		E & ICT Academy, IIT Kanpur	National
24.	Data Science		E & ICT Academy, IIT Kanpur	National
25.	,	Faculty Development Program (13-24 September, 21)		National
26.		Current Trends in Drug Discovery Research, Ageing associated Metabolic and CNS disorders (12-14 March, 2022)		International

Training & Program

- Orientation Program, ASC-Lucknow University 128, 1-29 Jan, 2018.
- Short Term Course on Research Methodology, AS-+C-Lucknow University, 19-25 Jan, 2019.
- Refresher Course in Chemistry and Biochemistry, ASC-Lucknow University, 17 31 Aug, 2019.
- Advanced Excel With Data Visualization, Faculty Development Program E & ICT Academy, IIT Kanpur, 5-16 June, 21.
- Data Science Faculty Development Program, E & ICT Academy, IIT Kanpur, 5-16 July. 21
- Advanced Excel With Data analysis Faculty Development Program, E & ICT Academy, IIT Kanpur, 13-24 September, 21