

## Curriculum Vitae

### **Dr. Ajay Kumar Singh, Ph.D**

Professor

Department of Biochemical Engineering

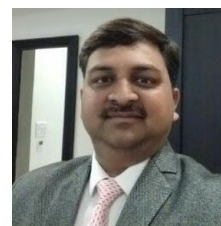
School of Chemical Technology

Harcourt Butler Technical University

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### EDUCATION

**Ph.D** Uttar Pradesh Technical University, Lucknow, India (2015)  
Advisor: **Late Prof. (Mrs.) Krishna Misra, Ph.D**  
Ph.D Thesis Title: “**Design and development of antitumor and anti-angiogenic drugs specially enzyme inhibitors for oral and cervical cancers**”

### **Post-Graduation**

M. Sc. -Biotechnology	C.S.J.M. University, Kanpur	61.75%	(2003)
M.Tech. -IT (Speci. In Bioinformatics)	Indian Institute of Information Technology, Allahabad	7.45/10	(2006)

### **Graduation**

B.Sc. (Zoology, Botany, Chemistry)	Lucknow University	61.16%	(2001)
Intermediate	U.P. Board	60.1%	(1997)
High School	U.P. Board	64%	(1995)

### EMPLOYEMENT EXPERIENCE:

Professor	Harcourt Butler Technical University, Kanpur	11/07/2024-Continue
Professor	Central University of South Bihar, Gaya	12/09/2023-10/07/2024
Associate Professor	Central University of South Bihar, Gaya	08/02/2016-11/09/2023
Assistant Professor	Amity University Uttar Pradesh, Lucknow Campus	2015-2016
Senior Lecturer	Amity University Uttar Pradesh, Lucknow Campus	2009-2014
Lecturer	Amity University Uttar Pradesh, Lucknow Campus	2006-2009

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### TEACHING EXPERIENCE

#### **@HARCOURT BUTLER TECHNICAL UNIVERSITY, KANPUR**

#### **Masters Level**

M.Tech-Biochemical Engineering	Advance protein engineering	(2024-2025) (2025-2026)
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#### **Graduation**

B.Tech-Biochemical Engineering	Bioinformatics	(2024-2025)
	Fundamental of Life process	(2024-2025)
	Biochemistry	(2024-2025)
		(2025-2026)

#### @ CENTRAL UNIVERSITY SOUTH BIHAR, GAYA

<b>Masters Level</b>	Cell and Molecular Biology	(2016-2023)
M.Sc- Bioinformatics	Algorithms in Bioinformatics	(2016-2023)
	Systems Biology	(2016-2022)
<b>Teaching Interest</b>	Bioinformatics	
	Computational Biology	
	Computer aided drug design	
	Genomics and Proteomics	

#### @ AMITY UNIVERSITY LUCKNOW

<b>Ph.D</b>	Amity University, Lucknow	(2012-2013)
(Biotechnology)	Bioinformatics and computational Biology	(2013-2014)
	Bioinformatics and computational Biology	(2014-2015)
<b>Masters Level</b>	Teaching assistant	(2004-2006)
M.Tech – Biotechnology	Bioinformatics (M.Tech, M.Sc.)	(2008-2015)
	Genomics and Proteomics	(2011-2012)
<b>Graduation Level</b>	Artificial neural network	(2009-2010)
B.Tech –Biotechnology	Computational Biology	(2009-2010)
B.Tech –Bioinformatics	Genomics and Proteomics	(2012-2013)
	Approaches in Integrative Bioinformatics	(2014-2015)

#### **HONORS AND AWARDS**

- Participated as volunteer in All India V.C. Conference held at I.I.I-T, Allahabad during 22-27 Nov, 2005.
- External Examiner of Master courses in Bioinformatics in Chhatrapati Shahu Ji Maharaj University, Kanpur, INDIA.
- External Examiner of Master courses in Bioinformatics in Allahabad Agricultural Institute-Deemed University, Allahabad, INDIA
- External Examiner of Master courses in Bioinformatics in Integral University, Allahabad, INDIA
- External Examiner of IFTM University, Moradabad.
- External Examiner of Shri Ram Swaroop Memorial University, Lucknow.
- Awarded as Best Support & Coordination in National conference on ecofriendly approaches in sustainable agriculture and horticulture production held on 28-30 Nov, 2008.
- Invited as Judge in WEBTEK event, An International computer fair and seminal event COFAS-2010, held at city Montessori inter college, Station road at Lucknow on 14th September 2010.
- Beta testing workshop for the 'MANAV-HUMAN ATLAS INITIATIVE' as Team owner of Biocurator (Student –Contributors) during 28 August, 2020 organized by NCCS Pune, IISER Pune and Persistent LABS, Pune.

## **PUBLICATIONS**

### **International**

#### **2009**

1. **Singh A.K.**, Misra K\*, Paper titled "In silico study of interactions of curcumin and its naturally occurring analogs with Human papilloma virus 16 E6 protein: designing of a herbal drug for oral and cervical cancer" accepted for Oral and Poster Presentation in" 1<sup>st</sup> International Conference in Bioinformatics and Computational Biology (BICoB 2009) held in holiday Inn Downtown- Superdome, New Orleans, Louisiana, USA, from April 8-10, 2009.

#### **2011**

2. **Singh A.K.**<sup>a</sup>, Rath S.K.<sup>b</sup> Misra K<sup>a</sup>, "Identification of epitopes in Indian human papilloma virus 16 E6: a bioinformatics approach". J. Virol. Methods. **2011**, 177(1):26-30 (**Impact factor: 2.623**). DOI: 10.1016/j.jviromet.2011.06.006.

#### **2012**

3. **Singh A.K.**, Misra K\*, "*In silico* approach for designing potent inhibitors against polymerase PB2 (Influenza A virus: H1N1)", Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci., (July–September **2012**) 82(3):365–373.(**Impact factor 0.96**) <https://doi.org/10.1007/s40011-012-0019-z>.

#### **2013**

4. **Singh A.K.**, Misra K\*, "Human papilloma virus 16 E6 protein as a target for curcuminoids, curcumin conjugates and congeners for chemoprevention of oral and cervical cancers", International journal "Interdisciplinary Sciences: Computational Life Sciences". **2013**, 5(2)112-118. (**Impact factor : 3.492**). <https://doi.org/10.1007/s12539-013-0159-8>.

#### **2017**

5. Kumar A., Singh A. K., Ouabain as a potential biofilm inhibitor against staphylococcus, aureus. **2017**, Antimicrobial Resistance and Infection Control, 6(Suppl-3):52. (**Impact factor: 6.454**). DOI 10.1186/s13756-017-0201-4.

#### **2018**

6. **Singh A.K.**<sup>a</sup> Misra K.<sup>b</sup>, "2D-QSAR (Quantitative Structure Activity Relationship) Study of Probable Inhibitors for Oral and Cervical Cancers, Generation of Model for Pharmacophore Prediction". Research & Reviews: A Journal of Drug Design & Discovery, **2018**, 5(1)1-13.

#### **2020**

7. Kamboj M<sup>a</sup>, Singh D.P.<sup>c</sup>, **Singh A.K.**<sup>d</sup> Chaturvedi D<sup>e,\*</sup> Molecular modeling, in-silico docking and antibacterial studies of novel template wangled macrocyclic complexes involving isatin moiety. Journal of Molecular Structure, Elsevier, **2020(1207)127602 (Impact Factor 3.841)**. <https://doi.org/10.1016/j.molstruc.2019.127602>.

8. Rani, S., **Singh, A.K.**, Paswan, R.R. et al. Preparation, Characterization and Antibacterial Evaluation of Soy Protein Isolate Biopolymeric Films Loaded with Nalidixic Acid. *J Polym Environ* (2020). Volume 28, pages 1841–1850. **[Impact Factor 5.3]**. <https://doi.org/10.1007/s10924-020-01729-4>
9. Tiwari S.K., **Singh A.K.**, Singh A, In-silico primer designing and PCR for detection of novel coronavirus-19, *Journal of Infection and Public Health*, (2020) 13(12),1885-1886, ISSN 1876-0341, ( **Impact factor : 7.537**) doi: 10.1016/j.jiph.2020.10.010.
10. Singh S., **Singh A.K\***. Mutated USP9X-Associated TRIM33 Inhibition in the Metastasis of Gingivobuccal Oral Squamous Cell Carcinoma *EJMO*. (2020); 4(4): 309-318. DOI: 10.14744/ejmo.2020.70327.

## **2022**

11. Agnik Haldar, **Singh AK\***. The association of long non-coding RNA in the prognosis of oral squamous cell carcinoma (2022). *Gene and Genomics*, volume 44, pages 327–342 (**Impact factor: 2.164**). DOI: 10.1007/s13258-021-01194-w.
12. Singh S. **Singh A.K\***, *Porphyromonas gingivalis* in oral squamous cell carcinoma: A review. (2022). *Microbes and Infection*. 24(3):104925 (**Impact factor: 9.57**) DOI: 10.1016/j.micinf.2021.104925.
13. Haldar A, Yadav K.K., Singh S., Yadav P.K., **Singh A.K\*** In silico analysis highlighting the prevalence of BCL2L1 gene and its correlation to miRNA in human coronavirus (HCoV) genetic makeup.(2022). *Infection, Genetics and Evolution*. (**Impact factor: 4.3**) 99, 105260. DOI:<https://doi.org/10.1016/j.meegid.2022.105260>.
14. Yadav P.K., **Singh A.K\***, A Review of Iron Overload in Beta-Thalassemia Major, and a Discussion on Alternative Potent Iron Chelation Targets. (2022). *Plasmatology*, Volume 16: 1–9. DOI: 10.1177/26348535221103560. (**Impact factor : 1.2**).
15. Yadav K. K, Anil Kumar A, **Singh A.K\***.A systems biology approach towards oral cancer using computational tools and techniques. *Chemometrics and Intelligent Laboratory Systems*. 231 (2022) 104709. (2022) **Impact Factor (4.175)** Doi.org/10.1016/j.chemolab.2022.104709.
16. Yadav K.K., **Singh A.K.\*** Topology based Protein-protein interaction analysis of Oral cancer proteins. *Current Science*. (2022), VOL. 123, NO. 10, 25 NOVEMBER 2022. 1216-1224. (**Impact Factor: 1.169**). Doi: 10.18520/cs/v123/i10/1216-1224.

## **2023**

17. Barik K.<sup>1</sup> Praffulla A K.<sup>1</sup> **Singh A.K.**<sup>1</sup>, Kumar A<sup>1</sup>, Potential therapeutic targets for combating *Mycoplasma genitalium*, 3 *Biotech* (2023) 13: 9. **Impact Factor (2.893)**. <https://doi.org/10.1007/s13205-022-03423-9>.

18. Singh S., Yadav P.K., **Singh A.K.\***, In-silico structural characterization and phylogenetic analysis of Nucleoside diphosphate kinase: A novel antiapoptotic protein of *Porphyromonas gingivalis*. *J Cell Biochem.* (2023) Volume124, Issue4, April 2023, 545-556, **Impact Factor (4.48)**. DOI: 10.1002/jcb.30389.
19. Arya P.K., Barik K., **Singh A.K.**, Kumar A., Databases and web resources for neglected tropical disease research, *J Appl Pharm Sci*, 2023; 13(08):043-054. <http://doi.org/10.7324/JAPS.2023.137884>, ISSN 2231-3354.
20. Singh S., Yadav P.K., **Singh .A.K\*.**, Structure based High-Throughput Virtual Screening, Molecular Docking and Molecular Dynamics Study of anticancer natural compounds against fimbriae (FimA) protein of *Porphyromonas gingivalis* in oral squamous cell carcinoma. *Molecular Diversity* (2023) Vol 28(1), 1141-1152. **Impact Factor (3.8)** DOI <https://doi.org/10.1007/s11030-023-10643-5>.
21. Haldar A., **Singh A.K\*.**, A Transcriptomic Analysis to Identify Prevalent lncRNAs in Gingivobuccal Oral Cancer. *Indian Journal of Science and Technology* 16(14): 1082-1089. <https://doi.org/10.17485/IJST/v16i14.2163>.
22. Barik, K., Arya, P.K., **Singh, A.K.**, Kumar A., Identification of phytochemical inhibitors targeting phosphate acetyltransferase of *Mycoplasma genitalium*: insights from virtual screening and molecular dynamics studies. *Mol Diversity* (2023). **Impact Factor (3.8)**. <https://doi.org/10.1007/s11030-023-10681-z>.
23. Yadav P.K. Singh S., **Singh .A.K\*.**, 3D-QSAR-based, pharmacophore modelling, virtual screening, and molecular docking studies for identification of hypoxia-inducible factor-1 inhibitor with potential bioactivity, *Computers in Biology and Medicine*, Volume 166, November 2023, 107557. **Impact Factor (7.7)**. <https://doi.org/10.1016/j.combiomed.2023.107557>.
24. Rani P., Yadav P.K., **Singh A.K.**, Nayak S, Kumar K.D, Kumar R., Structural, Material and Antibacterial Properties of Quercetin Incorporated Soy Protein Isolate Films and its Binding Behaviour through Molecular Docking, *Biopolymers*, 2023. e23569. **Impact Factor (2.2)**. <https://doi.org/10.1002/bip.23569>.
25. Rani S, Haldar A, **Singh A.K.**, K. Kumar K. D, Kumar R., Exploring 2, 2'- Bipyridine as an Additive for Soy Protein Isolate Biopolymeric Films. *Journal of Scientific Research of The Banaras Hindu University*. Volume 67, Issue 4, 2023, 21-25. DOI: 10.37398/JSR.2023.670404.
26. Arya, P.K., Barik, K., **Singh, A.K.**, Kumar A, Molecular docking and simulation studies of medicinal plant phytochemicals with *Leishmania donovani* adenosylmethionine decarboxylase. *Journal of Applied Biology & Biotechnology* Vol. 12(1), pp. 219-228, Jan-Feb, 2023. DOI: 10.7324/JABB.2024.151432.

## 2024

27. Yadav P.K. Singh S., **Singh .A.K\***.Pharmacophore-based computational study on inhibitor of TMPRSS6 as hepcidin modulator in an iron overload of beta-thalassemia. 2024, MOLECULAR SIMULATION. 50(4) 287-297. <https://doi.org/10.1080/08927022.2024.2302022>. **(Impact factor : 2.3)**
28. Singh J., Teotia S., **Singh A.K.**, Arya M.\*, Rout A.K., Behera B.K., Majumder S.\*. Whole genome sequence analysis of shallot virus X from India reveals it to be a natural recombinant with positive selection pressure. 2024, BMC Genomic Data, 25:42, <https://doi.org/10.1186/s12863-024-01196-z>. **(Impact Factor : 2.9)**.
29. Singh N., Yadav P.K., Singh A.K., Gupta D.\* and Gupta G.1\*, Molecular Docking and Dynamics Simulation study for Anticancer Phytoconstituents inhibiting breast cancer. 2024, Research Journal of Biotechnology, Vol. 19 (7) July (2024), 40-56. <https://doi.org/10.25303/1907rjbt040056>. **(Impact Factor : 0.2)**.

## 2025

30. Yadav P.K.<sup>a</sup>, Ojha K.K.<sup>b</sup>, Kumar A<sup>b</sup>, **Singh A.K\***.<sup>b,c</sup>, 3D-QSAR based computational screening of potent ligands against L-type calcium channel (LTCC) protein structure for iron overload in  $\beta$ -thalassemia, Computers in Biology and Medicine, Volume 194, August 2025, 110551, <https://doi.org/10.1016/j.compbio.2025.110551>. Elsevier. **IF (7.0)**.
31. Sharma S., Niranjana V., Singh A.K.\*, Pollutants as Hidden Triggers: A Computational View on Oral and Lung Cancer Development, Archives of Computational Methods in Engineering. **2025**, <https://doi.org/10.1007/s11831-025-10402-9>. Springer Nature, **IF (12.1)**.

## 2026

32. Mukherjee, K., Sengupta, S., **Singh, A.K.**, Tonk R.,Azizov S., Rajwade R.P., Kumar D., Therapeutic potential of *Bergenia ciliata* against lung cancer: an integrative molecular docking, ADMET, and molecular dynamics approach. In Silico Pharmacol. 14, 38 (2026). <https://doi.org/10.1007/s40203-025-00520-4>. **(IF =2.4)**.

## Book Chapters:

### 2012

1. **Singh A.K**<sup>1</sup>. Bhargava A<sup>1</sup>, Gaur R<sup>2</sup>, "Role of Bioinformatics in Microbial study "by in book titled "**Microbial Application**" (Eds. Gaur R., Malhotra S. and Pandey R.R.) I.K. International Publication, New Delhi. **2012**. ISBN: 9789381141014
2. Bhargava A<sup>1</sup>, **Singh A.K**<sup>1</sup>, Gupta V.K. and Gaur R., "Microbes for Heavy Metal Remediation", in book titled **Biotechnology of Microbial Enzymes** (Eds. Gaur R., Malhotra S. and Pandey R.R.) I.K. International Publication, New Delhi. **2012**. ISBN: 9789381141014
3. **Singh A.K**. Gupta V.K., "Biological Databases for Microbial Pathways and Enzymes for pathogenesis" in Book titled **Biotechnology of Microbial Enzymes** (Eds. Vijai Kumar Gupta

and Manimaran Ayyachamy (National University of Ireland, Galway, Ireland), **2012** Nova International Publ, New Delhi. ISBN: 978-1-62100-197-3.

4. **Singh A.K.**, Bhargava A., Kaur G., Sharma A., Misra K., Bioinformatics tools and resources for cancer diagnosis and drug development. In book titled "**Horizons in cancer research**" **2012**, vol 51 Ed . Hiroto S Watanabe, Publishers **Nova International USA**. ISBN -13: 978-1624173288

## **2015**

5. **Singh A.K.**, Misra K. "Next Generation Sequencing developments in cancer research by Bioinformatics approaches" in book **Horizons in cancer research**" Vol 58, Ed. **Hiroto S. Watanabe** Publishers **Nova International USA**. **2015**, ISBN: 978-1-63482-627-3.

## **2017**

6. **Singh A.K.** "Advances in Computer Aided drug designing" in book "**Biotechnology Recent trends and emerging dimension**", Ed. Atul Bhargava and S. Srivastava Publisher **Taylor and Francis**, **2017**CRC press. ISBN: 9781138561083.

## **2020**

7. Halder A., Yadav K, Katara P. , **Singh A.K.** \* "**Bioinformatics resources for the prediction of cancer prognosis and its recurrence**, in book "Recent Trends in computational Omics Concept and Methodology, Ed. Pramod Katara, July **2020** (pg. 347-370). Nova Science Publisher, USA. ISBN: 978-1-53617-941-5.

## **2021**

8. Haldar A., **Singh A.K.\*** "**Next-Generation Sequence Analysis for Clinical Applications**, in Book Titled "1st Edition Translational Bioinformatics Applications in Healthcare Edited By Khalid Raza, Nilanjan Dey. 2021. ISBN 9780367705701, 23-40. CRC press. Taylor and Francis group.

## **2023**

9. Singh S., Yadav P.K., **Singh A.K.\***, "**Role of bacterial infection in cancer genomics**" in Book Titled "**Integrative Approaches to Biotechnology**" Edited by Editors: Atul Bhargava and Shilpi Srivastava. **2023**, ISBN 9781003324706, CRC Press (Taylor and Francis).

## **2024**

10. Yadav K., Singh A.K.\*,"**Integrative Omics Approach for Identification of Genes Associated with Disease**" in book Titled: **Integrative Omics: Concepts, Methodology and Application** Editors/Authors: Manish Kumar Gupta, Pramod Katara, Ram Singh, Sukanta Mondal, **2023**, (Elsevier). ISBN: **978-0-443-16092-9**.

## PROJECTS COMPLETED

Sr. No	Title of Project	Funding Agency	Amount	Duration	Current Status
1.	Evaluation of Human Papilloma Virus in Breast Cancer and its Clinico- pathological Significance (As Co-PI)	RMLIMS, Lucknow	2,00,000 /-	2 Years	Completed
2.	Networking programme for enrichment and update of plant chromosome database for spermatophytes and Archegoniate. (As Co-PI)	DBT, New Delhi	1,93,29000 /-	3 Years	Completed
3.	Insilico study on potent inhibitors against iron overload and Cardiac arrhythmia in beta thalassemia(As PI)	ICMR, New Delhi	3243848 /-	3 Years	Completed

## POST GRADUATE THESIS SUPERVISED (CUSB, Gaya)

Sr. No	Title	Name	Programme	Year of completion	Affiliation
1.	Comparative study of natural inhibitors for oral cancer using Insilico docking tools	Mr. Nabeel Ahmad	M.Tech – Biotechnology	2009	Integral University, Lucknow
2.	A study on BRCA2 Gene through microarray analysis	Ms. Preeti Rai	M.Tech	2013	AUUP, Lucknow
3.	NFkB In Cervical cancer: A potential polyphenolic inhibitors for metastasis by HPV 16 E6 protein	Ms.Nijeta Kumari	M.Sc – Bioinformatics	2017	CUSB, Gaya
4.	Insilico study of target associated in metastasis of Gingivobuccal Oral Squamous Cell Carcinoma”	Ms. Suchitra Singh,	M.Sc Bioinformatics	2018	CUSB, Gaya
5.	In-silco Analysis of potential Inhibitor against target of Dengue and Chikungunya Virus	Mr. Ravi Ranjan Paswan	M.Sc Bioinformatics	2019	CUSB, Gaya
6.	Comparative analyses of SAR-CoV2 genomes from different geographical locations reveal unique features of host-virus interaction and pathogenesis (Minor Project)	Mr. Prabir Saha	M.Sc Bioinformatics	2020	CUSB, Gaya
7.	Designing and predicting the specificity of primers for the strains of Severe acute respiratory syndrome coronavirus (SARS)- CoV 2 detected in India (Minor Project)	Mr. Rishav Sahil	M.Sc Bioinformatics	2020	CUSB, Gaya
8.	NIOCSalivaBdb: A Tool for Non-invasive methods based on saliva’s biomarkers for oral cancer detection	Ms. Afsa Naaz	M.Sc Bioinformatics	2023	CUSB, Gaya
9.	Comparative Analysis of Non-Small Cell Lung Cancer Targets through drug repurposing approach	Ms. Shreya Bhardvaj	M.Sc Bioinformatics	2023	CUSB, Gaya

<b>Department of Biochemical Engineering HBTU, Kanpur</b>					
<b>10.</b>	Impact of Environmental Pollutants on Oral and Lung Cancer Development: A computational approach	Ms. Surbhi Sharma	M.Tech Biochemical Engineering	2025	HBTU, Kanpur
<b>11.</b>	Identification of potential targets against amyloid-beta in Alzheimer's disease by in-silico approach	Ms. Vaishnavi Niranjan	M.Tech Biochemical Engineering	2025	HBTU, Kanpur

**Ph.D Thesis Evaluated** : **15** (Integral University, Lucknow -02  
(CIMAP, Lucknow -02  
(CDRI, Lucknow -03  
(NIMS, Jaipur -01  
(Rama University -01  
(SHUATS, Allahabad -05  
(Shobhit University, Meerut -01

**Ph.D. supervision (Department of Bioinformatics, CUSB, GAYA) –completed**

- Dr. Agnik Haldar** (CUSB1803375001-2019 Batch )  
Title of thesis “**An epigenetic and transcriptomic study on ncRNA role in oral cancer inhibition**”
- Dr. Keerti Kr. Yadav** (CUSB1803375003 -2019 Batch)  
Title of thesis “**Identification of inhibitors against oral cancer targets through systems biology approach**”
- Dr. Suchitra Singh** (CUSB1903375006 -2020 Batch)  
Title of thesis “**Insilico Inhibitors screening against virulence factors of Porphyromonas gingivalis in oral squamous cell carcinoma (OSCC)**”
- Dr. Piyush Kr. Yadav** (CUSB2003375005 -2021 Batch)  
Title of thesis “**Virtual screening and selection of leads against the iron overload and Cardiac Arrhythmia in Beta Thalassemia major**”

**Junior Research Fellow : 01 (Under ICMR, New Delhi Grant)**

**RESEARCH EXPERIENCE**

Research Experience      Ph.D scholar      (2008-2015)  
Academic Research      (2006-2015)

Research Interest

- 1) Cancer developments and pathogenesis
- 2) Drug designing
- 3) Biological databases
- 4) Protein-ligands docking
- 5) Immunoinformatics
- 6) Database development

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### **ADMINISTRATIVE EXPERIENCE**

Programm coordinator:	B.Tech Biotechnology	(2007-2008)
	B.Tech Bioinformatics	(2009-2013)
Dy. Dean Student Welfare	Amity Institute of Biotechnology	(2007-2010)
Nodal Officer, BSACS	CUSB, Gaya	(2016-2019)
Head, Department of Biochemical Engineering		(11Feb,2026-11Feb, 2029)

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### **MEMBERSHIP**

1. Member of Bioinformatics Society of India.
2. Life Member of UPASTA (Uttar Pradesh Association for science and Technology Advancement)
3. Life Member of IACSIT [International Association of Computer Science and Information Technology], Singapore, December 2012.
4. Member of International association of Engineers, Hong Kong, Since October 2014.
5. Life Member of World Academy of Science, Engineering and Technology
6. Member (2018-19) Institute Innovation Council under MHRD.
7. Life Membership of Bioinformatics and Drug Discovery Society (BIDDS) (**Membership number - BIDDS17-290**) (Date of Membership: 09/02/2021)
8. **Senior Member** of Hong Kong Chemical, Biological & Environment Engineering Society (HKCBES). (Date of Membership:07/02/2023)

### **PROFESSIONAL INVOLEMENT**

1. Member of faculty Corporate Resource Center Amity University, Lucknow
2. Member of Departmental Course advisory committee (Amity University August 2006-2016)
3. External Examiner of State Level Universities.
4. Member of committee of Professional Bioinformatics Training Programme at Biotech Park under the sponsorship of DBT on August 29, 2013.
5. External Subject Expert of University Research Degree Committee (URDC) of Shobhit University, Meerut 2025.

### **REVIEWER OF JOURNALS:**

1. Engineering in Life Sciences (Wiley, IF =3.4)
2. Computers in Biology and Medicine(Elsevier, IF= 6.6)
3. Interdisciplinary Sciences: Computational Life Sciences(Springer, IF =3.4 )
4. Biochemical Genetics (Springer , IF 2.2)
5. Gene Reports (Elsevier, IF 0.176)
6. Engineering of Life Sciences (IF 3.4)
7. Archives of Oral Biology (Elsevier, IF 2.6)

8. International Journal of Cancer (Wiley, IF 7.3)
9. Journal of Chemical Information and Modeling (ACS, IF 5.3)
10. PLOS One (IF 2.6)

#### **EDITORIAL BOARD MEMBER:**

1. Journal of immunology and vaccination ELYNS Publishing Group, USA. (<https://www.elynsgroup.com/journal/editorial-board/journal-of-immunology-and-vaccination>).
  2. Appointed as Editor of Indira Gandhi Open University (IGNOU, New Delhi) Course : Genetics and Animal Biotechnology (MZO).
  3. Guest Editor of BIOCELL (**Impact Factor: 1.11**).(SCI, SCOPUS indexed), Tech Science Press (TSP).
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#### **ADMINISTRATIVE RESPONSIBILITIES AS COMMITTEES MEMBER/ CHAIRPERSON CUSB, GAYA**

##### **S. No. Committees**

1. Member of Academic Council of CUSB, Gaya
2. Cognate Member of CRDC/DRDC of Environmental Science
3. Member of Faculty Council (Bioinformatics Programme)
4. Chairperson of Discipline Committee (Bioinformatics Programme)
5. Chairperson of Internal Placement (Bioinformatics Programme)
6. Chairperson of Alumni committee (Bioinformatics Programme)
7. Member of seminar (Bioinformatics Programme)
8. Member of Moderation Committee Member in CUSBET 2016
9. Chairmen of Anti-ragging squad Patna Campus
10. Nodal Officer for the proposal of MOU with Bihar AIDS Society (BSACS)
11. Cognate member of M.Phil. Viva of Mr. Sunny Kumar
12. Member of Compilation of list of Journals
13. Cognate member of M.Phil. Viva of Mr. Diwakar Prakash
14. Member of modality of Undergraduate Programme (B.Sc Life Science)
15. HVC nominee for the selection of Project staff SERB project of Dr. D.V. Singh, Bioinformatics Programme.
16. Member of Bioinformatics Purchase Committee
17. Member of Board of studies of Bioinformatics Programme
18. HVC nominee for the selection of Project staff SERB, DST project of Dr. N.L. Devi Environmental Sciences Programme.
19. Member of University Institution Innovation Council
20. Member of University Academic Council
21. Member of Academic Council of CUSB, Gaya

**Events Organised  
(As Head, Department of Biochemical Engineering, HBTU, KANPUR)**

<b>Name of Events</b>	<b>Date</b>	<b>Organised by</b>
National Science Day 2025	28/02/2025	Department of Biochemical Engineering & Department of Pharmacy
Invited Talk by Dr. Konda Aravind Kumar, Sr. Scientist Division of Plant Biotechnology ICAR-Indian Institute of Pulses Research Kalyanpur, Kanpur	21/02/2025	“Genome editing of pulse crops for addressing the food and nutritional security of the nation” Organised by Department of Biochemical Engineering
Invited Talks by <b>Dr. Vikash Kumar Dubey ,Professor (HAG) School of Biochemical Engineering , IIT (BHU)</b>	05/04/2025	“Unveiling the secrets of Leishmania infection: A deep dive into its mysterious realm” Organised by Department of Biochemical Engineering
Faculty Entrepreneurship Development Programme (FEDP) <b>as –Convenor</b>	24 OCT- 04 NOV, 2025	“Entrepreneurship in Herbs & Medicinal Plants Processing” Organised by Department of Biochemical Engineering, Department of chemistry and Incubation HUB, HBTU, Kanpur
National science Day 2026 <b>(As chairperson)</b>	28/02/2026	Organised by Department of Biochemical Engineering
National Conference: GENESIS–2026 Diverse Bioprocesses: Inevitable for Interdisciplinary Technological Advancement <b>(As chairperson)</b>	9-10 March , 2026	Organised by Department of Biochemical Engineering
Invited talk <b>Dr. Vinayak Singh, PhD, MRSC</b> Head   Singh Research Group (SinRG), Div. Of Medical Microbiology   Dept. of Pathology Institute of Infectious Disease and Molecular Medicine University of Cape Town, South Africa	18/03/2026	Organised by Department of Biochemical Engineering

**Research Advisory Committee member of Ph.D Students (CUSB, GAYA)**

Sr. No	Name of Student	Enrolment No.	Name of Supervisor	Department	Member
1.	Ms. Shikha Rani	CUSB1703175007	Dr. Rakesh Kumar	Biotechnology	Dean Nominee (Prof. Rizwanul Haque) Head Nominee (Dr. Ajay Kumar Singh)
2.	Mr. Ashutosh Kumar Sinha	CUSB1703275003	Dr. Prashant Parth Sarthi	Environmental Sciences	Dean Nominee (Ajay Kumar Singh) Head Nominee (Dr. Prabhat Ranjan)
3.	Mr. Agnik Haldar	CUSB1803375001	Dr. Ajay Kumar Singh	Bioinformatics	Dean Nominee (Dr. Krishna Kumar Ojha ) Head Nominee (Dr. Anil Kumar)
4.	Mr. Keerti Kumar Yadav	CUSB1803375003	Dr. Ajay Kumar Singh	Bioinformatics	Dean Nominee (Dr. Anil Kumar) Head Nominee (Dr. Asheesh Shanker)
5.	Ms Suchitra Singh	CUSB1803375005	Dr. Ajay Kumar Singh	Bioinformatics	Dean Nominee (Dr. Krishna Kumar Ojha) Head Nominee (Dr. Krishna Kumar Ojha)
6.	Mr. S M Shayez Karim	CUSB1803375005	Prof. R.S. Rathore	Bioinformatics	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Krishna Kumar Ojha)
7.	Mr. Shubham Gudadhe	CUSB 1903175008	Dr. Jawaid Ahsan	Biotechnology	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Nitish Kumar)
8.	Ms Shweta Sinha	CUSB 1903175008	Prof. Durg Vijai Kumar Singh	Biotechnology	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Rakesh Kumar)
9.	Mr. Priyabrata Meher	CUSB 1903475004	Dr. Tara Kashav	Life Sciences	Dean Nominee (Dr. Krishna Prakash) Head Nominee (Dr. Ajay Kumar Singh)
10.	Mr. Prafull Kumar Arya	CUSB1803375005	Dr. Anil Kumar	Bioinformatics	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Vijay Kumar Singh)
11.	Ms. Priya Rani	CUSB1903175005	Dr. Rakesh Kumar	Biotechnology	Dean Nominee (Prof. Rizwanul Haque) Head Nominee (Dr. Ajay Kumar Singh)
12.	Ms Ekta Singh	CUSB2003175002	Dr. Krishna Prakash	Biotechnology	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Tara Kashav)
13.	Mr. Vikram Raj	CUSB2003275012	Prof. Pradhan Parth Sarthi	Environmental Sciences	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Rajesh Kumar Ranjan)
14.	Mr. Amrendra Kumar	CUSB1703275002	Dr. N.L Devi	Environmental Sciences	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Prof. Pradhan Parth Sarthi)
15.	Mr. Gyan Prakash Rai	CUSB2003375001	Dr. Asheesh Shanker	Bioinformatics	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Krishna Kumar Ojha)
16.	Mr. Krishnendu Barik	CUSB2003375002	Dr. Anil Kumar	Bioinformatics	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Durg Vijay Singh)
17.	Mr. Piyush Kumar Yadav	CUSB2003375005	Dr. Ajay Kumar Singh	Bioinformatics	Dean Nominee (Dr. Anil Kumar ) Head Nominee (Dr. Krishna Kumar Ojha )
18.	Mr. Vikram Raj	CUSB2003275012	Prof. Pradhan Parth Sarthi	Environmental Sciences	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Dr. Rajesh Kumar Ranjan)
19.	Mr. Prabhat Kumar	CUSB2103275002	Prof. Pradhan Parth Sarthi	Environmental Sciences	Dean Nominee (Prof. Umesh Kumar Singh) Head Nominee (Dr. Ajay Kumar Singh )
20.	Mr. Aniket Kumar Rishu	CUSB2103475002	Dr. Gautam Kumar	Life Sciences	Dean Nominee (Dr. Ajay Kumar Singh) Head Nominee (Prof. Pradhan Parth Sarthi)

**PRESENTATIONS/ INVITED TALKS (International, National & State level)**

**2006**

1. Invited lecture on "Introduction biological database and their advantages" in training Programm on Tools and languages for Database Development during 9-10 November, 2006 at Biotech Park, Lucknow.

**2007**

1. Invited lecture in training Programm on "Bioinformatics tools and their application in Biological research" during 15-17 February 2007 at Biotech Park, Lucknow.
2. Invited lecture in workshop on "Structural Bioinformatics" during 08-09 June 2007 at Biotech Park, Lucknow.

3. Invited lecture in workshop on "Bioinformatics applications in genomics and proteomics" during September 13- 15 2007 at Biotech Park, Lucknow.
4. Invited lecture in workshop on "Principles and applications of Bioinformatics in Biotechnology" during 10-11 December 2007 at Biotech Park, Lucknow.

#### **2008**

5. Invited lecture in workshop on "Bioinformatics: Insilico study of DNA and protein structure and function" during 07-08 March 2008 at Biotech Park, Lucknow.
6. Invited lecture in workshop on "Computational tools and database for genomics and proteomics" during 27-29 May 2008 at Biotech Park, Lucknow.
7. Invited lecture in workshop on "Bioinformatics in Molecular Modelling, Data Analysis and Systems Biology" during 08-09 August 2008 at Biotech Park, Lucknow.
8. Invited lecture in workshop on "In-Silico Analysis of Bio Molecules and Drug Designing" during 6-8 November 2008 at Biotech Park, Lucknow.

#### **2009**

9. In silico study of interactions of curcumin and it's naturally occurring analogs with Human papilloma virus 16 E6 protein: designing of a herbal drug for oral and cervical cancer Ajay Kumar Singh+ and Krishna Misra\* accepted for Oral and Poster Presentation in" 1st International Conference in Bioinformatics and Computational Biology (BICoB 2009) held in holiday Inn Downtown- Superdome, New Orleans, Louisiana, USA, from April 8-10, 2009.
10. Invited lecture on "Introduction to Bioinformatics with Hands on Internet Browsing and Data Searching" 9-10 January, 2009 at ND University of Technology, Kumarganj, Faizabad.
11. Invited lecture in workshop on "Bioinformatics and its application in RNAi" during 17-19 February, 2009 at Biotech Park, Lucknow.
12. Invited lecture in workshop on "Bioinformatics Application and Current Approaches" during 10- 12 June, 2009 at Biotech Park, Lucknow.
13. Invited lecture in workshop on "Role of Chemoinformatics, Pharmacoinformatics & Bioinformatics in Rational Drug Designing" during 08- 10 October 2009 at Biotech Park, Lucknow.

#### **2012**

14. Human papilloma virus 16 E6 protein as a target for curcuminoids, curcumin conjugates and congeners for chemoprevention of oral and cervical cancers" in "International Conference and Exhibition on Computer Aided Drug Design & QSAR" during October 29-31, 2012 at Double Tree by Hilton Chicago-North Shore, USA.
15. Invited lecture in workshop on "Drug Discovery, Design methods and Applications" during 11-13 September 2012 at Biotech Park, Lucknow.

#### **2013**

16. Invited Lecture on " Bioinformatics : An Application to Biological Research" in National Conference on "BioLife: The Evolving Multidisciplinary Life Sciences"(NCBL 2013), held at Shruti Auditorium, SGPGIMS (Sanjay Gandhi Postgraduate Institute of Medical Sciences), Lucknow, on 9th-10th March 2013.
17. Invited lecture in workshop on "Role of Bioinformatics in Agriculture and Health care" during 20-22 June, 2013 at Biotech Park, Lucknow.

## 2017

18. **Invited as speaker** in National Conference on “Development and advancement in conservation, propagation and sustainable utilization of medicinal plants (DSUMP 2017)” on “Bioinformatics Resources for Medicinal Plants in Biological Research” during 20-21 January, **2017** held at Gautam Buddha University, Greater Noida.
19. **Participated as panelist** in 6<sup>th</sup> International conference on Human Value in Higher Education held at IIT –Kanpur during 10-12 February, **2017**.

## 2018

20. Invited as resource person in national workshop on bioinformatics held on 24-25 January, 2018 at St. Xavier’s college, Mapusa, GOA.
21. Invited Lecture on “Time Line Approaches for Insilico Drug Designing” in National workshop on protein purification and its sustainable application in drug designing and agro waste management at SHUATS, Allahabad during 3-9 October, 2018.

## 2019

22. Invited lecture on “Role of Bioinformatics in medicinal plants research” in National Workshop DBT, Ministry of Sc. & Tech., Govt. of India sponsored “Horizon of Bioinformatics in Environmental Management and Biodiversity Conservation” at Tilak Manjhi Bhagalpur Univeristy , Bhagalpur during 7-9 January , 2019.

## 2020

23. Invited Lecture on “Bioinformatics resources for structure and sequence alignment tools.” In Faculty Development Program on “Bioinformatics and computational biology: Introduction and Approaches” under the auspices of the “DBT Star College Scheme” on 11 Dec, 2020 organized during 9th December, 2020-15th December 2020; organized by Departments of Botany and Zoology, and Chemistry. Chaudhary Mahadeo Prasad College, University of Allahabad.

## 2022

24. Invited Lecture on “Oncoinformatics Approaches for oral cancer : A demand for oral cancer” organized by Society of Bioinformatics and Biological Sciences (SBBS) in collaboration with Applied research and Development Organization (ARDO) in National E-Conference on “**Emerging Trends in Agricultural & Biological Sciences (ETABS-2021)**” organizing during January 14-15,2022.
25. Invited Lecture on “**Phylogenetic resources for exploring the connectivity and variation analysis: An Bioinformatics Approach**” organized by National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad and sponsored by DBT and Telangana state council of science and technology (TSCOST) in Faculty Development Programme, workshop on “**Molecular Docking, Virtual Screening & Computational Biology**” held from March 28 to April 08, 2022.
26. Invited talk on “**Transforming Drug Discovery Through Bioinformatics Innovations and Implications in Health Research**” "Emerging Trends in Translational Bioinformatics (ET2B) 2024" held on December 5th to 7th, 2024, at Birla Institute of Technology, Mesra, Ranchi.

## **NATIONAL CONFERENCE ORGANISED (As Organizing member)**

### **2016**

1. 1<sup>ST</sup> International conferences in Human Implications of Biotechnology (ICHIB -2016) during February 12-14, 2016 held at CBS, CUSB and organize by CBS, CUSB and CUJ.
2. National workshop on “Protein structure prediction and drug design” during 18th-19th November, 2016 organized by Bioinformatics Programme, CUSB.

### **2017**

3. 2<sup>nd</sup> National seminar on Current Trends in Life Sciences, Life science programme, CUSB during 20-21, 2017.

### **2025**

4. Convenor of Faculty Entrepreneurship Development Programme (FEDP) on “Entrepreneurship in Herbs & Medicinal Plants Processing” Sponsored by: Department of Science and Technology (DST), New Delhi during 24 OCT- 04 NOV, 2025 at HBTU, Kanpur.

## **NATIONAL CONFERENCE PARTICIPATION / ABSTRACT:**

### **2009**

1. Abstract titled “Phylogenic study of fruit ripening proteins in *Mangifera indica*: A novel study to explore the new ripening strategy in fruits” by *Ajay kr. Singh*, Nudra R. kidwai published in National conference 30th Annual Meeting of Plant Tissue Culture Association (India) & National Symposium on " Plant Propagation, Conservation, Modification and Characterization" (April 3-4, 2009)IHBT, Palampur.

### **2015**

2. Participated in National Symposium On “Interfacial Chemical Biology and drug Design 2015 titled “Biosensors in cancer Diagnosis, held at Amity University Lucknow Campus on 24-25 February, **2015**.
3. Participated in Fifth International Conference on Plants & Environmental Pollution (ICPEP-5) at NBRI, Lucknow on 24-27 February, **2015**.

### **2017**

4. Kumar A\*, **Singh A.K.**, Abstract titled “Ouabain as potential biofilm inhibitor against *Staphylococcus aureus*” in 4<sup>th</sup> International conference on preventive and infection Control (ICPIC2017) durign20-23 June held at Geneva, Switzerland.

### **2021**

5. Singh S., **Singh A.K.\*** *Porphyromonas gingivalis* virulence factors Inhibitors screening in oral squamous cell carcinoma (OSCC) in National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology January 29-30, **2021**, organized by Department of Biotechnology, National Institute of Technology Warangal, India.
6. Haldar A., **Singh A.K.\*** *A transcriptomic analysis on long non-coding RNA role in oral cancer inhibition* in National Conference on Biological, Biochemical, Biomedical,

Bioenergy, and Environmental Biotechnology January 29-30, **2021**, organized by Department of Biotechnology, National Institute of Technology Warangal, India.

7. Yadav P.K., **Singh A.K.\*** *Hepcidin as iron chelation target in Beta Thalassemia Major: An in-silico approach* in National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology January 29-30, **2021**, organized by Department of Biotechnology, National Institute of Technology Warangal, India.

## 2022

8. Yadav K.K., **Singh A.K.\*** *Oral cancer identification candidate genes by integrated Protein-Protein interaction and Systems biology approach* in National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology January 29-30, **2021**, organized by Department of Biotechnology, National Institute of Technology Warangal, India.
9. Yadav P.K., **Singh A.K.\***, *Inhibitor design for TMPRSS6 as hepcidin up-regulator for chelation iron in beta-thalassemia major* in 8<sup>th</sup> International Symposium on Current Trends in Drug Discovery Research Aging Associated Metabolic and CNS Disorder 12-14 March, **2022**.
10. Yadav K.K., **Singh A.K.\***, *In-silico Identification of Natural Inhibitors of GSK3 $\beta$  Protein against Oral Cancer* in 8<sup>th</sup> International Symposium on Current Trends in Drug Discovery Research Aging Associated Metabolic and CNS Disorder 12-14 March, **2022**.
11. Suchitra Singh, **Ajay K Singh\*** "In-silico Docking Studies of Anticancer Natural Compounds against FimA Protein of Porphyromonas gingivalis in oral squamous cell carcinoma (OSCC)" First International Conference of Association of Clinical Biochemists of India [ACBI] 24-25 September 2022.
12. Piyush Kumar Yadav a , Suchitra Singh a , Ajay Kumar Singh a\* 3D-QSAR based, pharmacophore modelling, virtual screening, and molecular docking studies for L-type calcium (LTCC) in iron overload in  $\beta$ -thalassemia, 2ND INTERNATIONAL SYMPOSIUM ON EMERGING TRENDS IN SYNTHESIS AND CATALYSIS, Amity University, Sector-125, Noida (Delhi/NCR), INDIA, Organized By Amity Institute of Applied Sciences during 12th-13th April 2023.
13. Participated as Judge for poster, oral and member of national advisory committee in National Conference on Bioinformatics and Biological Research (NCBBR) at Central University of South Bihar, Gaya during Nov 21-23, 2024.
14. Chair the session in National Conference on Bioinformatics and Biological Research (NCBBR) at Central University of South Bihar, Gaya during Nov 21-23, 2024.
15. Online Workshop on "Use of Artificial Intelligence (AI) in Teaching by SNS Innovation Labs Private Limited (MAXPRO AI) by Satyen Srivastava Director, SNS Innovation Labs Private Limited organised by the Human Resource Development Cell (HRDC), Harcourt Butler Technical University, Kanpur (HBTUK) during to 25.11..2024 and 26.11.2024.

16. Chair the session IV in National Conference on “Frontier in functional material for sustainable development of energy and environment” organised by department of chemistry. Harcourt Butler Technical University during May 19-20, 2025.

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## **WORKSHOP, CONFERENCE, SEMINARS PARTICIPATION**

### **2005**

1. Attended International workshop on recent advances in biometric systems on 15&16 April 2005 at I.I.T, Kanpur.

### **2006**

2. Volunteered and Attended in the Indo-Russian seminar on recent trends in applied bioinformatics and medi-informatics at I.I.I.-T, Allahabad.
3. Participated in Biohorizon 2006, the 8th National symposium on biochemical engineering and Biotechnology organized by IIT Delhi.

### **2009**

4. Workshop on Intellectual Property Rights: At VKC Auditorium Amity University Uttar Pradesh, Lucknow, October 28, 2009.

### **2010**

5. Attended seminar on “An Introduction to the role of bioinformatics in Translational Medicine” held at Charhatrapati shahuji Maharaj Medical University, UP during 22-23 July 2010.
6. Nano biotechnology: key for Nano medicine and treatments of tomorrow: By Rajiv R. Mohan, Ph.D. Associate Professor of Ophthalmology, Univ. of Missouri Columbia, USA and Harry S. Truman Veteran Memorial Hospital, Columbia, MO, USA, March 25, 2010.
7. Application of NMR in Biomedical Researches: by Professor (Dr.) Raja Roy: Professor, Center For Biomedical Magnetic Resonance (SGPGI Campus, Lucknow) Sept. 22, 2010.
8. Workshop on “In-silico Strategies for the Drug Discovery” Organized by Amity Institute of Biotechnology, Lucknow. March 31, 2010.

### **2011**

9. Workshop on “Contribution of Animal Cell Culture in Human Health Research”, Amity University Uttar Pradesh, Lucknow March 4-5, 2011.
10. Workshop on “Managing Biohazards- Recognizing & Treating the Biggest Threat to Humankind” Organized by Amity Institute of Biotechnology, Lucknow. February 02, 2011.

### **2013**

11. Attended workshop at Dr. Ram Manohar Lohia institute of medical sciences, luck now "Update on screening of breast and cervical cancer" on 4 February, 2013.
12. National Conference on Women Power in Cutting Edge Biotechnology' held at Amity University Uttar Pradesh (Lucknow Campus) on Oct 17-18, 2013.
13. Recent Advances and Applications of Plant Cells, A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on Sep 10, 2013 by Dr. Archana Mathur.
14. Bioprocess Technology, A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on Sep 2, 2013 by Dr. Vineeta Singh
15. Taxonomic Diversity in Plants and Animals, A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on Aug 26, 2013 by Dr. B.L. Choudhary.
16. Interactive Session on 'Applied Microbiology and Biotechnology' by Dr. R.D. Tripathi on Sep 20, 2013.

## 2014

17. DNA replication and repair mechanism, A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on Feb 10, 2014 by Dr. Tasleem Raza.
18. Synthesis of Blue, Red and Yellow Sugar as New Anticancer Agent' A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on 20th March, 2014 by Prof. Peter Langer.
19. Introduction to Molecular Markers, A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on Jan 31, 2014 by Dr. A.B. Pant.
20. Microbiology: Research and Innovation, A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on Feb 14, 2014 by Dr. D.N. Dhol.
21. Structural Biology: Research Aspects in Drug Discovery, A Guest Lecture delivered at Amity University Uttar Pradesh (Lucknow Campus) on Feb 21, 2014 by Dr. Ravi Shankar
22. Role of proteomics in Clinical Sciences by Dr. Pradhun Singh on August 08, 2014 (Friday) at AIB, Lucknow.
23. National Conference on "Bioengineering and Biotechnology: An Industrial Perspective" (NCBBIP, 2014) on 16-17 October at AIB, Lucknow.
24. Microbiology by Dr. Vinita Mittal on September 03, 2014 (Wednesday) at AIB, Lucknow.
25. Structural Biology tools by Dr. P. K. Singh on September 08, 2014 (Monday) at AIB, Lucknow.
26. Molecular Biology: Molecular Process by Dr. Arshad September 09, 2014 (Tuesday) at AIB, Lucknow.

## 2015

27. Environmental Toxicology and Health by Dr. V.K. Khanna on February 10, 2015(Tuesday) at AIB, Lucknow.
28. Regulation of Gene Expression by Dr. Deepak Chandra on February 23, 2015 (Monday) at AIB, Lucknow.
29. Genetically Modified plants and their applications by Dr. Rakhi Chaturvedi on March 03, 2015 (Tuesday) at AIB, Lucknow.
30. National Symposium on "Interfacing Chemical Biology and Drug Design (ICBDD), 24-25th Feb. 2015 at Amity Lucknow.
31. A Guest Lecture on "Advantages of Plant Biotechnology" BY Dr. Archana Mathur on 30/09/2015.
32. Guest Lecture on "Advances in Neuro Toxicity" by Dr. A B Pant , HEAD, In Vitro Toxicology Division IITR, Lucknow on 29.09.2015.
33. Guest Lecture on "DNA Replication and Repair Mechanism" by Dr. Tasneem Raza ,Associate Professor , Department of Biotechnology, Era Medical College, Lucknow during October 15th 2015
34. Workshop on "BIO-ENTREPRENEURSHIP (a sensitization programme)" in association with Biotech Park Lucknow organized by Amity Institute of Biotechnology and Amity Business School Lucknow during (October 13 - 14, 2015).

## 2017

35. Participated in 6<sup>th</sup> International Conference on Human Values in Higher Education held at IIT Kanpur from 10-12 February, 2017.

## 2018

36. Participated in the Annual BSBE winter meeting held at IIT - Kanpur from 7-9 December, 2018.

2022

37. Participated in online mode in International Symposium on "INDO-US Symposium on Molecular Virology" organized by MHRD-SPARC and BIDDs society organizing on 15th-17th Feb, 2022.

38. Participated in "INDO -US Symposium on Molecular Virology -2022" held online from 15-17 February 2022 organized by Ministry of Education , SPARC, IIT-Mandi and BIDDs.

2024

39. Participated as Judge for poster and oral presentation in National Conference on Bioinformatics and Biological Research (NCBBR) at Central University of South Bihar, Gaya during Nov 21-23, 2024.

40. Participated in online workshop on "Use of Artificial Intelligence (AI) in teaching held from Nov 25 -26 , 2024 by Department of Human Resource Development Cell , Harcourt Butler Technical University, Kanpur.

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### PERSONAL INFORMATION

<b>NAME</b>	DR. AJAY KUMAR SINGH
<b>FATHER'S NAME</b>	Late SHRI RISHI PAL SINGH
<b>MOTHER'S NAME</b>	SMT. NIRMALA SINGH
<b>DATE OF BIRTH</b>	11/06/1981
<b>NATIONALITY</b>	INDIAN
<b>MARITAL STATUS</b>	MARRIED
<b>SPOUSE</b>	MRS. URVASHI SINGH
<b>DAUGHTER</b>	MS. AYUSHI SINGH
<b>SON</b>	MR. AVYAAN SINGH
<b>CURRENT ADDRESS &amp; PERMANENT ADDRESS:</b>	S/O Late SHRI RISHI PAL SINGH PLOT NO. 51, KAMLA NEHRU NAGAR, KAMTA, CHINHAT, LUCKNOW, UTTAR PRADESH INDIA 226028
<b>CONTACT NO</b>	+91-9935686230, +91-9472657005
<b>EMAIL</b>	ajjay2@gmail.com, ajaysing

I hereby certify that all the information provided above is true to the best of my knowledge.



**(Prof. Ajay Kumar Singh)**