



## CURRICULUM VITAE

<b>Name:</b>	Dr. Satarudra Prakash Singh	
<b>Designation:</b>	Associate Professor	
<b>School:</b>	Life Sciences	
<b>Department:</b>	Biotechnology	
<b>Specialisation &amp; Research Interests:</b>	Bioinformatics and Computer aided vaccine design, Nanobiotechnology	
<b>Email IDs (Official &amp; Personal)</b>	<a href="mailto:sprakshsingh@mgcub.ac.in">sprakshsingh@mgcub.ac.in</a> ; sprakashsingh@gmail.com	
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<b>Address:</b>	98, Sai Farms, Sikanderpur Khurd, Laulai, Chinhath, Lucknow-226028	

## 2. ACADEMIC QUALIFICATION (in reverse Chronological order):

Degree	Year	University / Board
Ph.D. (Biotechnology)	2011	Gautam Budhh Technical University, Lucknow, India
M.Tech. (Biotechnology)	2003	Uttar Pradesh Technical University, Lucknow, India

Degree	Year	University / Board
M.Sc. (Physics)	1999	Banaras Hindu University, Varanasi, India
B.Sc. (Math and Physics)	1997	VBS Purvanchal University, Jaunpur, India
Intermediate (Mathematics group)	1994	U.P. Board, Allahabad, India
High School (Science group)	1992	U.P. Board, Allahabad, India

**3. ANY OTHER QUALIFICATION:**

GATE-1999

**4. PROFESSIONAL EXPERIENCE:**

Organisation/Institute/University	Position Held	Duration
Amity Institute of Biotechnology, Amity University Uttar Pradesh Lucknow Campus	Lecturer	13 <sup>th</sup> Sept. 2007-June 2011
Amity Institute of Biotechnology, Amity University Uttar Pradesh Lucknow Campus	Senior Lecturer	July 2011- Sept. 2014
Amity Institute of Biotechnology, Amity University Uttar Pradesh Lucknow Campus	Assistant Professor-II	Oct. 2014-23 <sup>rd</sup> Aug. 2019
Department of Biotech and Genome, Mahatma Gandhi central University, Bihar, Motihari	Associate Professor	26 <sup>th</sup> Aug. 2019- till date

**5. ADMINISTRATIVE ASSIGNMENTS:**

Position Held	Duration	Nature of Work
Program Leader	2012-2018	Academic
Deputy Dean student welfare	2014-2018	Academic
Member of Research Publication Committee	2015-2018	Academic
Member of Hostel allocation committee	2012-2018	Academic

## 6. COURSES TAUGHT:

B.Sc., B.Tech, M.Sc., M.Tech and Ph.D. in Biotechnology

## 7. RESEARCH SUPERVISION:

### A. Ph.D.:

i. Awarded : 00  
 ii. Submitted : 00  
 iii. Ongoing : 02

### B. M.Phil.:

i. Awarded :00  
 ii. Submitted :00  
 iii. Ongoing : 00

### C. Non-Degree Oriented (Master's Level Dissertation):

i. Awarded : 07  
 ii. Submitted :00  
 iii. Ongoing :00

**8. CONTRIBUTION TO CORPORATE LIFE OF THE UNIVERSITY:**

Programme Leader, Deputy Dean Student Welfare, Hostel Allocation

**9. MEMBERSHIP OF SOCIETIES / PROFESSIONAL BODIES:**

1. Electron Microscopy Society, India
2. Indian JSPS

**10. PUBLICATIONS:****A. BOOKS/MONOGRAPHS: NO****1. Authored:**

- i. ....
- ii. ....
- iii. ....

**2. Edited:**

- i. ....
- ii. ....
- iii. ....

**B. PAPERS IN REFEREED/PEER REVIEWED JOURNALS:****International**

- i. Rani H, **Singh, SP**, Yadav TP, Khan MS, Ansari MI, Singh AK. (2019) *In-vitro* catalytic, antimicrobial and antioxidant activities of bioengineered copper quantum dots using *Mangifera indica* (L.) leaf extract. *Materials Chemistry and Physics* Materials Chemistry and Physics, 239, 122052, SCOPUS indexed, Elsevier, **Impact factor: 2.78**

- ii. Singh G, Pritam M, Benerjee M, Singh AK, **Singh SP. (2020)** Design of precise vaccine construct against visceral leishmaniasis through predicted ensemble epitope: a contemporary approach. *Computational Biology and Chemistry* (Potentially accepted for publication). SCOPUS indexed, Elsevier, **Impact factor: 1.58**
- iii. Singh G, Pritam M, Benerjee M, Singh AK, **Singh SP. (2019)** Genome based screening of vaccine candidates against dreadful Visceral Leishmaniasis: a comparative study using immunoinformatics approach. *Microbial Pathogenesis* **Microbial Pathogenesis, 136, 103704.** SCOPUS indexed, Elsevier, **Impact factor: 2.58**
- iv. Singh AK, J K Srivastava, A K Chandel, L Sharma, N Mallick, **SP Singh (2019)** Biomedical Applications of Microbially Engineered Polyhydroxyalkanoates: An Insight into Recent Advances, Bottlenecks and Solutions. *Applied Microbiology and Biotechnology*, 103(5):2007-2032. (SCOPUS indexed, Springer Nature) **Impact factor: 3.67**
- v. Pritam M, Singh G, Swaroop S, Singh AK, **Singh SP (2019)** Exploitation of reverse vaccinology and immunoinformatics as promising platform for genome-wide screening of new effective vaccine candidates against *Plasmodium falciparum*. *BMC Bioinformatics*, BMC Bioinformatics 2019 (Suppl 13):468. (SCOPUS indexed, Springer Nature). **Impact factor: 2.51**
- vi. Singh AK, Pal P, Gupta V, Yadav TP, V Gupta, **Singh, SP (2018)** Green synthesis, characterization and antimicrobial activity of zinc oxide quantum dots using *Eclipta alba*. *Materials Chemistry and Physics*, 203, 40-48. (SCOPUS indexed, Elsevier Press). **Impact factor: 2.78**
- vii. **SP Singh**, D Srivastava, BN Mishra **(2017)** Genome-wide identification of novel vaccine candidates for Plasmodium falciparum malaria using integrative bioinformatics approaches. *3 Biotech* 7 (5), 318. (SCOPUS indexed, Springer Press). **Impact factor: 1.79**

- viii. **Singh SP**, Mishra BN. (2016) Major histocompatibility complex linked databases and prediction tools for designing vaccines. *Human Immunology*, Vol. 77(3), 295-306. (SCOPUS indexed, Elsevier Press). **5 year Impact factor: 2.20**
- ix. **Singh SP**, Roopendra K, Mishra BN. (2015) Genome-Wide Prediction of Vaccine Candidates for *Leishmania major*: An Integrated Approach. *Journal of Tropical Medicine*. Article ID 709216, 14. (Acceptance rate 24%; SCOPUS indexed, Hindawi Press).
- x. **Singh SP**, Verma V, Mishra BN. (2015) Characterization of *Plasmodium falciparum* Proteome at Asexual Blood Stages for Screening of Effective Vaccine Candidates: An Immunoinformatics Approach. *Immunology and Immunogenetics Insights*, 7, 21-30. (SCOPUS indexed, SAGE Press). Ranking: 2017 SJR (SCImago Journal Rank) Score: 0.310 | 142/190 in Immunology and Allergy | 169/209 in Immunology.
- xi. **Singh SP**, Khan F, Mishra BN (2010) Computational characterization of *Plasmodium falciparum* proteomic data for screening of potential vaccine candidates. *Human Immunology*, 71(2):136-143. (0198-8859; SCOPUS indexed, Elsevier Press). **5 year Impact factor: 2.20**
- xii. **Singh SP**, Mishra BN (2009) Computational characterization and epitope identification of merozoite surface protein 1, *Bioinformatics*, 4(1):1-5, (0973-2063; Biomedical Informatics Publishing Group, Singapore, PUBMED indexed).
- xiii. **Singh SP**, Mishra BN (2008) Evaluation of knowledge based threading method for the prediction of peptides binding to MHC class I alleles. *International Journal of Integrative Biology*, 4(1): 16-20. (0973-8363; SCOPUS indexed).
- xiv. Khan F, **Singh SP**, Mishra BN (2008) Conservation of the LexA repressor binding site in *Deinococcus radiodurans*. *Journal of Integrative Bioinformatics*, 5(1):86, (1613-4516; De Gruyter press, SCOPUS and PUBMED indexed).

- xv. **Singh SP**, Mishra BN (2008) Ranking of binding and nonbinding peptides to MHC class-I molecules using inverse folding approach: Implications for vaccine design. *Bioinformatics*, 3(2):72-82, (0973-2063; Biomedical Informatics Publishing Group, Singapore; **PUBMED indexed**).
- xvi. **Singh SP**, Mishra BN (2008) Prediction of MHC binding peptide using Gibbs motif sampler, weight matrix and artificial neural network. *Bioinformatics*, 3(4):150-155, (0973-2063; Biomedical Informatics Publishing Group, Singapore, **PUBMED indexed**).
- xvii. **Singh SP**, Tyagi S, Khan F, Mishra BN (2008). Benchmarking the propensity scales for the prediction of Linear B-Cell epitopes. *Journal of Computational Intelligence in Bioinformatics*, 1(1): 45-53. 0973-385X.

### **BOOK CHAPTERS**

- xviii. Singh AK, Yadav TP, Pandey B, Gupta V, **Singh SP (2019)** Engineering Nanomaterials for Smart Drug Release: Recent Advances and Challenges. In: Mishra RK, Thomas S, Mohapatra S, Dasgupta N, Ranjan S (eds.), Applications of Targeted Nano-Drugs and Delivery Systems, Chapter 15, pp. 411-449 (ISBN: 978-0-12-814029-1) (**Book Chapter Elsevier, SCOPUS indexed**).
- xix. Pandey B, Singh AK, **Singh SP (2019)** Nanoparticles Mediated Gene Knockout through miRNA Replacement: Recent Progress and Challenges. In: Mishra RK, Thomas S, Mohapatra S, Dasgupta N, Ranjan S (eds.), Applications of Targeted Nano-Drugs and Delivery Systems, Chapter 17, pp. 469-497 (ISBN: 978-0-12-814029-1) (**Book Chapter Elsevier, SCOPUS indexed**).

### **C. PAPERS IN CONFERENCES PROCEEDINGS:**

- i. **Singh SP**, Mishra BN. Prediction Model of MHC Class-II Binding Peptide Motifs Using Sequence Weighting Method for Vaccine Design. In Proceedings of the International Conference Pages 234 - 237, 9-11 Aug. 2012, **IEEE (SCOPUS indexed)**
- ii. **Singh SP**, Mishra BN (2009) Gibbs motif sampler, weight matrix and artificial neural network for the prediction of MHC Class-II binding peptides. In “Contemporary Computing”, Ranka, S. et al. (eds.), *Communications in Computer and Information Science*, Vol 40 (Part 10), pp 503–509, ISBN: 978-3-642-03546-3, (**Springer, SCOPUS indexed**).

**11. Patents/Copyrights /IPR (If Any)**

NO

**12. INVITED TALKS:**

1. Delivered a talk on " T cell epitopes prediction and their potential uses in vaccine designing against infectious diseases: An immunoinformatics approach" in the IMUNOCON- 2017: 44th Annual Conference of the Indian Immunology Society (IIS) on Immune mechanisms of infectious Diseases and beyond, during 14th to 16th December 2017 at Nirma University, Ahmedabad, Gujarat, India.
2. Delivered a talk on “Green Synthesis, Characterization and Antimicrobial Activities of Zinc Oxide Nanoparticles" in three days "International Conference on Nanoscience & Nanotechnology (ICNN-2017)" during 22-24 September, 2017 at Babasaheb Bhimrao Ambedkar central University, Lucknow, U.P., India.
3. Delivered a talk on “Biomedical Applications of quantum dots” in three days "National Conference on nanomaterials and associated energy" during Feb. 1-3, 2019 at Babasaheb Bhimrao Ambedkar central University, Lucknow, U.P., India.
4. Delivered a talk on “In silico strategy for vaccine designing and biomarker discovery” in workshop “In-Silico Strategies for Disease Pathway Analysis & Biomarker Discovery” March 29 – 31, 2016, organized at Biotechnology Park, Lucknow and sponsored by Department of Biotechnology, Government of India.
5. Delivered a talk on "Molecular dynamics simulation and vaccine designing" during a bioinformatics workshop on “Molecular Dynamic Simulations & Drug Design” held on March 21-23, 2013.
6. Delivered a talk on “Prediction Model of MHC Class-II Binding Peptide Motifs Using Sequence Weighting Method for Vaccine Design” in International Conference on Advances in Computing and Communications (ICACC), on August 9-11, 2012 at Rajagiri School of Engineering & Technology, Cochin, Kerala, India.



7. Delivered a talk on “Gibbs motif sampler, weight matrix and artificial neural network for the prediction of MHC Class-II binding peptides” in International Conference on Contemporary Computing (IC3 2009), on August 17-19, 2009, jointly organized by the Jaypee Institute of Information Technology, NOIDA, India and the University of Florida, Gainesville, USA.
8. Delivered a talk on “Genome derived vaccine design: a bioinformatics approach” during a Professional Bioinformatics Training Programme held on November 19–24, 2012, organized at Biotechnology Park, Lucknow and sponsored by Department of Biotechnology, Government of India.

### 13. RESEARCH PROJECTS (COMPLETED / ONGOING):

### 14. PARTICIPATION & PRESENTATIONS IN SEMINARS/SYMPOSIA/WORKSHOPS/CONFERENCES:

#### Abstract presentation in International conferences

1. Pritam M, Singh G, Swaroop S, Singh AK, **Singh SP** (2018) Exploitation of reverse vaccinology and immunoinformatics as promising platform for genome-wide screening of new effective vaccine candidates against *Plasmodium falciparum* presented in the **17th International Conference on Bioinformatics (INCOB 2018)** held at Jawaharlal Nehru University, New Delhi, India on Sept. 26- 28, 2018 (**Oral presentation**).
2. Singh G, Pritam M, Monisha Banerjee, Singh AK, **Singh SP** (2018) Genome-based screening of MHC class I and II epitope ensemble vaccine candidates for world-wide effective prevention of Visceral Leishmaniasis using computational approaches presented in the **17th International Conference on Bioinformatics (INCOB 2018)** held at Jawaharlal Nehru University, New Delhi, India on Sept. 26- 28, 2018 (**Poster presentation**).
3. Manisha Pritam, Garima Singh, Suchit Swaroop and Satarudra Prakash Singh (2018) Genome-wide screening of putative vaccine candidates against *Plasmodium falciparum* using advanced bioinformatics tools presented in Young Scientists Conference (YSC) of 4th India International Science Festival (IISF 2018) Lucknow held at Indira Gandhi Pratishthan Lucknow, Oct. 5-8, 2018 (**Poster presentation**).

4. Garima Singh, Manisha Pritam, Monisha Banerjee and Satarudra Prakash Singh (2018) Prediction of B cell epitopes against Visceral Leishmaniasis using Immunoinformatics tools presented in Young Scientists Conference (YSC) of 4th India International Science Festival (IISF 2018) Lucknow held at Indira Gandhi Pratisthan Lucknow, Oct. 5-8, 2018 **(Poster presentation)**.
5. Pritam M, Singh G, Swaroop S, Singh AK, Singh SP (2018) Prediction of Plasmodium falciparum vaccine candidates using reverse vaccinology approach presented in International Conference on Impact of Environment on Women's Health (IEWH 2017) organized by Amity University Lucknow held on Nov. 29- Dec. 1, 2017 **(Poster presentation)**.
6. Garima Singh, Manisha Pritam, Monisha Banerjee and Satarudra Prakash Singh (2018) Selection of Leishmania donovani antigens using bioinformatics tools: causal pathogen of visceral leishmaniasis presented in International Conference on Impact of Environment on Women's Health (IEWH 2017) organized by Amity University Lucknow held on Nov. 29- Dec. 1, 2017 **(Poster presentation)**.
7. Delivered an invited talk entitled "Green Synthesis, Characterization and Antimicrobial Activities of Zinc Oxide Nanoparticles" in three days "International Conference on Nanoscience & Nanotechnology (ICNN-2017)" during 22-24 September, 2017 at Babasaheb Bhimrao Ambedkar central University, Lucknow, U.P., India.
8. Pankaj, V, **Singh, S. P** and Singh, A. K. (2017) "Exploitation of Tagetes Flower Extract as Potential Platform for the Synthesis of Nickel Nanoparticles" Second International Conference on Biotechnological Advancements in Free Radical Biology and Medicine, held at Department of Biosciences, Integral University, Lucknow, January 23-25, 2018 **(Poster presentation)**.
9. Chauhan, S. S., Rani, H., Satarudra Prakash Singh, **S. P., Singh, A. K.** (2017) "Studies on Combined Effect of Biogenically Synthesized Nickel and Zinc Nanoparticles on Mung Plant (Vignaradiata)" Second International Conference on Biotechnological Advancements in Free Radical Biology and Medicine, held at Department of Biosciences, Integral University, Lucknow, January, 23-25 **(Poster presentation)**.
10. Verma, A., Singh, A. K and **Singh, S. P.** (2017) "Green Synthesis of Copper Oxide Nanoparticles Using Anethumgraveolens (sowa) Leaf Extract as Reducing and Capping agents" Second International Conference on Biotechnological Advancements in Free Radical Biology and Medicine, held at Department of Biosciences, Integral University, Lucknow, January, 23-25 **(Poster presentation)**.
11. Asif, S., Singh, S. P., Yadav, T.P. and Singh, A. K. (2016) Green Synthesis and

- Characterization of Multi-Applicative Nickel Nanoparticles. International Conference on Electron Microscopy jointly organized by Department of Metallurgical Engineering, IIT-BHU Varanasi and EMSI, India June 2-4, p. 150 (**Poster presentation**).
12. Rastogi, S., Singh, A. K., Yadav, T.P. and Singh, S. P. (2016) Characterization of Biogenically Engineered Copper Nanoparticles Using Transmission Electron Microscopy. International Conference on Electron Microscopy jointly organized by Department of Metallurgical Engineering, IIT-BHU Varanasi and EMSI, India June 2-4, p. 151 (**Poster presentation**).
  13. Singh, A. K., Pal, P., Yadav, T.P. and Singh, S. P. (2016) Transmission Electron Microscopy based characterization of biogenically engineered zinc oxide quantum dots. International Conference on Electron Microscopy jointly organized by Department of Metallurgical Engineering, IIT-BHU Varanasi and EMSI, India June 2-4, p. 152 (**Poster presentation**).
  14. Pal, P., Singh, S. P. and Singh, A. K. (2015) *Eclipta alba* leaf extract as a source for the green synthesis of zinc nanoparticles. National Conference on Recent Trends in Applied Microbiology, Human Health & Environment Bundelkhand University Jhansi, Uttar Pradesh (India), March 27-28, p. 30 (**Poster presentation**).
  15. Asif, S., Singh, A. K. and Singh, S. P. (2015) *Mentha arvensis* leaf extract: Mediator for green synthesis of nickel nanoparticles. National Conference on Recent Trends in Applied Microbiology, Human Health & Environment Bundelkhand University Jhansi, Uttar Pradesh (India), March 27-28, p. 32 (**Poster presentation**).
  16. Rastogi, S., Singh, S. P. and Singh, A. K. (2015) Eco-friendly synthesis of copper nanoparticles by exploiting leaf extract of *Anethum sowa*. National Conference on Recent Trends in Applied Microbiology, Human Health & Environment Bundelkhand University Jhansi, Uttar Pradesh (India), March 27-28, p. 40 (**Poster presentation**).
  17. Rastogi, S., Singh, A. K. and Singh, S. P. (2015) Anethum sowa leaf cell factories: A viable and sustainable approach for copper nanoparticles production. International Conference on Contemporary Advances of Science & Technology, Banaras Hindu University (BHU), Varanasi (India), August 7-9, p. 199 (**Poster presentation**).
  18. Pal, P., Singh, S. P. and Singh, A. K. (2015) *Eclipta alba* biofactories: A promising and sustainable transformation platform for the synthesis of Zn nanoparticles. International Conference on Contemporary Advances of Science & Technology, Banaras Hindu University (BHU), Varanasi (India), August 7-9, p. 198 (**Poster presentation**).
  19. Asif, S., Singh, A. K. and Singh, S. P. (2015) Sunlight driven *Mentha arvensis*

Biofactories: Meaditor for the producer of Nickel Nanoparticles. International Conference on Contemporary Advances of Science & Technology, Banaras Hindu University (BHU), Varanasi (India), August 7-9, p. 176 **(Poster presentation)**.

#### **National Conferences**

1. Manisha Pritam, Garima Singh, Suchit Swaroop and Satarudra Prakash Singh (2018) Prediction of effective vaccine candidates against Plasmodium falciparum using in silico approaches presented in one day symposium on Medical and Health Sciences organized by Amity Institute of Biotechnology, Lucknow on Oct. 10, 2018 **(Poster presentation)**.
2. Singh G, Pritam M, Monisha Banerjee, Singh AK, Singh SP (2018) Potent vaccine candidates prediction against Leishmania donovani using immunoinformatics tools” presented in one day symposium on Medical and Health Sciences organized by Amity Institute of Biotechnology, Lucknow on Oct. 10, 2018 **(Poster presentation)**.
3. Singh G, Pritam M, Monisha Banerjee, Suchit Swaroop, Singh AK, Singh SP (2018) Development of artificial intelligence based model for prediction of vaccine candidates presented in one day symposium on Medical and Health Sciences organized by Amity Institute of Biotechnology, Lucknow on Oct. 10, 2018 **(Poster presentation)**.
4. Parveen, A., Rani. H. and Singh, A. K. (2018) Green Synthesis, Characterization and Antimicrobial Activities of Nickel Nanoparticles. National Conference on “Biological applications of Nanomaterials” organised by Amity Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow campus, January 9, p. 38 **(Poster presentation)**.
5. Verma, A., Chauhan, S. S., Pankaj, V., Singh, S. P. and Singh, A. K. (2018) Studies on the Effect of Biogenically Synthesized Copper oxide Nanoparticle on Mung Plant (Vigna radiata). National Conference on “Biological applications of Nanomaterials” organised by Amity Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow campus, January 9, 2018, p. 27 **(Poster presentation)**.
6. Manisha Pritam, Garima Singh, Suchit Swaroop and Satarudra Prakash Singh (2018) Nanoparticles based vaccine designing for malaria presented in National Conference on “Biological applications of Nanomaterials” organised by Amity Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow campus, January 9, 2018 **(Poster presentation)**.

7. Singh G, Pritam M, Monisha Banerjee, Singh AK, Singh SP (2018) Role of nanocarriers in vaccine designing presented in National Conference on “Biological applications of Nanomaterials” organised by Amity Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow campus, January 9, 2018 (**Poster presentation**).
8. Singh SP, Srivastava D, and Mishra BN (2017) Genome-based prediction of vaccine candidates for Plasmodium falciparum. IMTechCon 2017: The industry-academia organized by CSIR-Institute of Microbial Technology (CSIR-IMTECH) held at Chandigarh October 4-6, 2017 (**Poster presentation**).
9. Manisha Pritam, Garima Singh, Suchit Swaroop and Satarudra Prakash Singh (2017) Analysis of population coverage of known Plasmodium falciparum epitopes using immunoinformatics tool presented in 44th annual conference of Indian Immunology Society (IMMUNOCON 2017) organized by Institute of Science Nirma University Ahmadabad held on Dec. 14-16, 2017 (**Poster presentation**).
10. Singh G, Pritam M, Monisha Banerjee, Singh AK, Singh SP (2017) Population coverage analysis of experimentally reported epitopes of Leishmania donovani antigens presented in 44th annual conference of Indian Immunology Society (IMMUNOCON 2017) organized by Institute of Science Nirma University Ahmadabad held on Dec. 14-16, 2017 (**Poster presentation**).
11. Singh, A. K., Khan, S.A. and Singh, S. P. (2017) Studies on the Effect of Biogenically Synthesized Zinc Nanoparticles on Germination and Growth of Gram Seedlings. National Conference on “Energy, Environment and its Impact on Society” organized by K. N. Govt. P.G. College, Gyanpur, Bhadohi (UP), January 19-20, p. 57 (**Poster presentation**).
12. Singh, S. P., Verma, A. and Singh, A. K. (2017) Eco-friendly Synthesis of Copper Oxide Nanoparticles using Marigold Flower Extract. National Conference on “Energy, Environment and its Impact on Society” organized by K. N. Govt. P.G. College, Gyanpur, Bhadohi (UP), January 19-20, p. 58.
13. Singh, A. K. Khan, S. A. and Singh, S. P. (2016) Exploitation of Tagetes flower as potential platform for biogenic synthesis of Zinc nanoparticles. National seminar on Advances in Plant Science Frontier: Development and Environment, Gandhi Faiz-e-Aam College, Shahjahanpur, Bareilly, U.P. (India), November 26-27, p. 85 (**Poster presentation**).
14. Shukla Prateek and Singh S.P (2015) A review on tregitopes prediction and its application as active pharmaceutical ingredients. National Symposium on “Interfacing

- Chemical Biology and Drug Design" 2015 organized by Amity Institute of Pharmacy, Amity University Uttar Pradesh Lucknow Campus, during 24 & 25 Feb. 2015 (**Poster presentation**).
15. Verma Bishal and Singh S.P. (2015) Deimmunization of biotherapeutics: current status and future prospects. National Symposium on "Interfacing Chemical Biology and Drug Design" 2015 organized by Amity Institute of Pharmacy, Amity University Uttar Pradesh Lucknow Campus, during 24 & 25 Feb. 2015.
  16. Singh SP, Awasthi G (2014) Applications of bioinformatics in alge based biofuel based production. Symposium on biotechnology and stress biology of alge and cynobacteria, centre of advanced study in botany, BHU, Varanasi, February 24-26, 2014 (**Poster presentation**).
  17. Singh, S.P and Singh Rajkumar (2014) Applications of biochemical engineering in biotechnology industries. National seminar on "Current trends in biological sciences: Advances and challenges" organized by Department of Zoology, Janta college Bakewar, Etawaha, during 13-14, Dec. 2014. pg no. 88.
  18. Singh, S.P and Singh Rajkumar (2014) Challenges of Translational Medicine: An Interdisciplinary Approach. National seminar on "Current trends in biological sciences: Advances and challenges" organized by Department of Zoology, Janta college Bakewar, Etawaha, during 13-14, Dec. 2014. pg no. 86 (**Poster presentation**).
  19. Singh, S.P and Singh Rajkumar (2014) Characterization of Plasmodium falciparum antigens as vaccine candidates using immunoinformatics approach. National seminar on "Current trends in biological sciences: Advances and challenges" organized by Department of Zoology, Janta college Bakewar, Etawaha, during 13-14, Dec. 2014. pg no. 87 (**Poster presentation**).
  20. Prof. K.S. Korgaonkar Award-2006 at National Symposium on Molecules, Interactions and Design: A Biophysical Prospective and Annual meeting of the Indian Biophysical Society (IBS2006) organized by West Bengal University of Technology at SINP Kolkata from January 7-9, 2006.

## 15. AWARDS, FELLOWSHIPS & OTHER DISTINCTIONS:

1. National Conference on "Big Data in Life Sciences and Healthcare (BDLSH-2019)" organized at Amity University Uttar Pradesh, Lucknow Campus on Feb. 12-13, 2019.

- Title of presentation:** Application of big data technology in vaccine design and development.
2. National Conference on Artificial Intelligence: Research, Innovation & its Applications (CAIRIA-2019) organized at Amity Institute of Information Technology (AIIT), Amity University-Lucknow Campus on January 30-31, 2019. **Title of presentation:** Machine learning based prediction of binding peptides to HLA class I and II molecules for vaccine design
  3. International Conference on Contemporary Advances of Science & Technology held on August 7-9, 2015 organized by IJAA-JSPS, Japan and Banaras Hindu University, Varanasi, India. **Title of presentation:** Sunlight driven Mentha arvensis Biofactories: Meaditor for the producer of Nickel Nanoparticles.
  4. National Symposium on Molecules, Interactions and Design: A Biophysical Prospective and Annual meeting of the Indian Biophysical Society (IBS2006) organized by West Bengal University of Technology at SINP Kolkata, India from January 7-9. **Title of presentation:** Malaria vaccine development: An application of bioinformatics tools to derive genome-wide peptide vaccine candidates

**5. ANY OTHER SIGNIFICANT INFORMATION:**

Satarudra Prakash Singh

***(Name of Faculty)***