

## Curriculum Vitae

**Arvind Sharma, Ph.D.**

Post-Doctoral Associate,

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### *Academic Qualification:*

- **Ph.D. in Biotechnology** in 2015 from **Maharshi Dayanand University, Rohtak, Haryana, India** on topic “**Population Genomics of Malaria vector *An. stephensi* (Diptera: culicidae) in central India.**”
- **Masters in Science (Biochemistry)** in 2008 from **Kurukshetra University, Kurukshetra (K.U.K), Haryana, India-**.
- **Bachelors in Science (Medical)** in 2006 from **Kurukshetra University, Kurukshetra (K.U.K), Haryana, India-**.

### *Research Experience:*

- Worked as **Research Associate**, Molecular Ecology Lab, Centre for Ecological Sciences, Indian Institute of Science, Bangalore-560012, India on Malaria vector genetics  
**(01/01/2016- 13/10/2016)**
- Worked as **Junior Research Fellow** in a Bioinformatics Infrastructure Facility (BIF) programme in **Centre for Bioinformatics, M.D. University, Rohtak, Haryana, India-124001.**  
**(01/08/2014-30/01/2015)**
- Worked as **Junior Research Fellow** in a research project on **Population Genomics of Indian urban Malaria vector”** in **Centre for Biotechnology, M.D. University, Rohtak, Haryana, India-124001.**  
**(01/01/2011-17/06/2014)**

### *Research Publications:*

1. **Arvind Sharma**, Richa Sharma, Ashwani Kumar, Madhulika Dube and SK Gakhar **(2016).** **Population genetic structure of urban malaria vector *Anopheles stephensi* in India.** *Infection, Genetics and Evolution*, Vol. 39, 35-44. **(I.F. 3.1)**

2. **Arvind Sharma**, Richa Sharma, Ashwani Kumar, Madhulika Dube and SK Gakhar, (2015). **Gene flow and Population genetic structure of *An. stephensi* Liston in the areas under Enhanced Malaria Control Project (EMCP) and Non- EMCP of Madhya Pradesh (Central India) using microsatellite marker.** *Acta Entomologica Sinica*, Vol. 58, 74-81.  
(I.F. 0.896 )
3. **Arvind Sharma**, Arunaditya Deshmukh, Richa Sharma, Ashwani Kumar, Sayantan Mukherjee, G C Chandra, S.K. Gakhar, (2014). **Population genetic structure of malaria vector *Anopheles stephensi* using mitochondrial Cytochrome oxidase II gene in Indian populations.** *Indian Journal of Experimental Biology*, Vol. 52, pp. 996-1002.  
(I.F. 0.753)
4. Ashwani Kumar, **Arvind Sharma**, Richa Sharma, S.K. Gakhar, (2014). **Identification, characterization and analysis of expression of gene encoding carboxypeptidase A in *Anopheles culicifacies* A (Diptera: Culicidae).** *Acta Tropica*, 139, 123–130.  
(I.F. 2.710)
5. S.K. Gakhar, Richa Sharma and **Arvind Sharma**, (2013). **Population Genetic structure of Malaria Vector *An. stephensi* Liston (Diptera:Culicidae).** *Indian Journal of Experimental Biology*, Vol. 51, pp. 273-279.  
(I.F. 0.753)

***Seminars, Symposiums and Workshops attended /International and National:***

- **National Seminar** on “**Stem cell and Human Medicine**” organized by Centre for Medical Biotechnology, M.D. University, Rohtak, Haryana, India-124001. (1 March, 2014)
- **National Symposium** on “**Fight against malaria: Prospectus and Perspectives**” held at Centre for Medical Biotechnology, M.D. University, Rohtak, Haryana, India-12 at Centre for Medical Biotechnology, M.D. University, Rohtak, Haryana, India-124001 (9 March, 2013)
- **National Seminar** on “**Challenges in Combating Diseases: cause to cure**” organized by Department of Zoology, M.D. University, Rohtak, Haryana, India-124001. (23 March, 2012)
- **National Workshop** on “**Molecular Evolution and Phylogenetics**” organized by Centre for Bioinformatics, M.D. University, Rohtak, Haryana, India-124001. (21-22 October, 2011)
- **National Seminar** on “**Internet: Applications in research**” organized by Department of Zoology, M.D. University, Rohtak, Haryana, India-124001. (26 March, 2011)
- **National workshop** on “**Bioinformatics**” organized by Centre for Biotechnology, M.D. University, Rohtak, Haryana, India- 124001. (14-16 September, 2010)
- **National Workshop** on “**Environmental Problems & its mitigations**” organized by Department of Environmental Sciences, M.D. University, Rohtak, Haryana, India- 124001. (26 March, 2010)
- **National Seminar** on “**Environmental Challenges: Sustainable Development**” organized by Department of Environmental Sciences, M.D. University, Rohtak, Haryana, India-124001. (29-30 March, 2010)

- **National Seminar** on “**Biodiversity: Concerns and Solutions**” organized by Department of Botany, M.D. University, Rohtak, Haryana, India- 124001. (20 November, 2009)
- **National Seminar** on “**Emerging Trends in Biotechnology**” organized by University Institute of Engineering and Technology, M.D. University, Rohtak, Haryana, India- 124001. (24 November, 2009)
- **National Symposia** on “**Molecular Medicine and Translational Crossroad**” organized by Department of Biotechnology and Molecular Medicine, PGIMS, Rohtak, Haryana, India- 124001. (15 December, 2009)
- **National Seminar** on “**Water conservation**” held at G.M.N College, Ambala Cantt, Haryana, India- 133004. (28-29 September, 2007)

#### *Expertise:*

- Handling of *Anopheles* cyclic colonies.
- DNA and RNA extractions, Plasmid purification, Gel purification.
- Electrophoresis: Native and SDS-PAGE.
- Samples preparation for sequencing (cycle sequencing, cleanup *etc.*).
- Field collection and morphological identification of malaria vectors.
- *Anopheles* dissections (midgut, ovaries, salivary gland, haemolymph and fat bodies).
- Microsatellite Genotyping, DNA barcoding.
- Phylogenetic and population genetic studies.
- Multiplex PCR and Real time PCR for parasite detection and blood-meal analysis.
- Native and SDS-PAGE, 2D-electrophoresis.
- Clinical: Determination of Sugar, proteins, ketone bodies and bile in urine. Estimation of blood hemoglobin, TLC, DLC, estimation of ESR and clotting time. Estimation of urea, uric acid, creatinine and bilirubin, cholesterol, calcium, sodium, potassium and phosphorus in serum.
- Enzyme Assays: Activity of LDH, MDH, SGOT, SGPT and Acid and Alkaline Phosphatase.
- Chromatography: TLC and Paper chromatography.

#### *Personal Details:*

Date of Birth : 18 August 1987  
 Sex : Male  
 Marital status : Single  
 Postal address : House no 59-A, Krishna Colony, Yamuna Nagar, Haryana, India-135001

*Reference:*

1. **Prof S.K. Gakhar**  
Vice-Chancellor,  
Ch. Bansi Lal University, Bhiwani, Haryana, India.  
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