

BIOGRAPHICAL SKETCH

Name

SAIMA ASLAM

Designation & Address

Assistant Professor
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ACADEMIC PROFILE (POST-GRADUATION ONWARDS)

S. No.	Institution Place	Degree Awarded	Field of Study
1.	University of Kashmir	M. Sc	Biotechnology
2.	Jawaharlal Nehru University	Ph. D	Life Sciences

POSITION AND EMPLOYMENT

2014- Assistant Professor in the School of Biosciences & Biotechnology, BGSB University, Rajouri.
2013-2014 Post-Doctoral Fellow (PDF) in the School of Environmental Sciences, JNU, Delhi.
2012-2013 Senior Research Fellow (SRF) in the School of Life Sciences, JNU, Delhi.

TEACHING EXPERIENCE

2014- :Teaching Genetic Engineering, Cell Biology, Molecular Biology, Fundamentals of Biotechnology and Animal Biotechnology at the Postgraduate level.

RESEARCH EXPERIENCE

1. Worked as a **Postdoctoral Fellow** at School of Environmental Sciences, Jawaharlal Nehru University, New-Delhi, India in a project entitled “**Nuclear calcium Signaling in *Entamoeba histolytica***” under the supervision of Prof. Sudha Bhattacharya.
2. Worked as a **Ph.D** student in a project entitled “**Expression and Functional characterization of EhCaBP3, a novel Calcium binding protein of *Entamoeba***

histolytica” at School of Life Sciences, Jawaharlal Nehru University, New-Delhi, India from 2006 to 2012 under the supervision of Prof. Alok Bhattacharya.

3. Worked as a Junior Research Fellow in Ranbaxy laboratories project entitled “**Expression of amoebic and human proteins in *Dictyostelium discoideum***” at School of Life Sciences, Jawaharlal Nehru University New Delhi, India, under the supervision of Dr. Ranjana Arya (Ranbaxy) and Prof. Alok Bhattacharya (JNU) from 2005-2006.

M. Sc Dissertation and training

One year dissertation work entitled “**Antimicrobial activity of *Calendula officianalis***” carried out at University of Kashmir, India under the supervision of Dr. Afzal Zargar.

FELLOWSHIPS/AWARDS

- Awarded **DST Start-up Grant** in 2015.
- Awarded Dr. D. S. Kothari **Post-Doctoral Fellowship** in 2013.
- Awarded **Indo-Australia Career Boosting Fellowship** in 2014.
- Second prize winner in visual sparks, in 10th annual Biosparks, JNU, 2013
- First prize winner in poster presentation in 7th annual Biosparks held in school of Life Sciences, JNU, 2010.
- Awarded Council of Scientific and Industrial Research (**CSIR**)-**SRF** in 2009.
- Received **UGC- meritorious** fellowship in 2007-2008.
- Received fellowship from Ranbaxy laboratories, India (2005-2006).
- Qualified National level entrance examination and Interview for PhD programme-2006 at School of Life Sciences, Jawaharlal Nehru University New Delhi, India.
- Availed a monthly scholarship from DBT for pursuing M.Sc in Biotechnology.

RESEARCH INTERESTS

Cell signaling and molecular parasitology.

PATENTS (One)

- Ranjana Arya, Alok Bhattacharya, Kurvinder Singh Saini, **Saima Aslam**, Roop Singh Bora, Shivani Gupta. Production of purified recombinant human phosphodiesterase in *Dictyostelium Discoideum* **India 1779/DEL/2007 21-Aug-07**

PUBLICATIONS

A) BOOK CHAPTER

Aslam S, Mansuri S, Bhattacharya A (2015). Signaling Pathways in *E. histolytica*. Amebiasis book, **Springer**. DOI 10.1007/978-4-431-55200-0-13.

B) RESEARCH ARTICLES

1. Kumar S*, **Aslam S***, Mazumder M, Dahiya P, Murmu A, Manzasetty B, Zaidi R, Bhattacharya A and Gourinath S (2014). Crystal Structure of Calcium Binding Protein-5 from *Entamoeba histolytica* and its involvement in initiation of phagocytosis of human erythrocytes. PLoS Pathog. 10: e1004532. (***Contributed equally**)
2. Grover S, **Aslam S**, Sharma V, Arya R (2014). Expression and secretion of GNE and its mutants in *Dictyostelium discoideum*. CNS Neurol Disord Drug Targets. 13:1263-72.
3. Grewal JS, Padhan N, **Aslam S**, Bhattacharya A, Lohia A (2013). The calcium binding protein EhCaBP6 is a microtubular-end binding protein in *Entamoeba histolytica*. Cell Microbiol. 15:2020-33.
4. **Aslam S**, Bhattacharya S, Bhattacharya A (2012). The Calmodulin-like calcium binding protein EhCaBP3 of *Entamoeba histolytica* regulates phagocytosis and is involved in actin dynamics. PLoS Pathog. 8:e1003055.
5. Arya R, **Aslam S**, Gupta S, Bora RS, Vijayakrishnan L, Gulati P, Naithani S, Mukherjee S, Dastidar S, Saini KS (2008). Production and characterization of pharmacologically active recombinant human phosphodiesterase 4B2 in *Dictyostelium discoideum*. **Biotechnol.J.** 3:938-47
6. Arya R, Gupta S, **Aslam S**, Kaur N, Seth A, Mathew S. Eapen, Malik R, Vijayakrishnan L, Saini KS (2008). Purification of recombinant human phosphodiesterase 7A expressed in *Dictyostelium discoideum*. **Protein Expr. Purif.**61:149-54.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED

- Oral Presentation in the **10th JK Science Congress** held at University of Jammu, Jammu, March 14th to 16th, 2015.
- Oral Presentation in the **1st biannual PARAFRAP International Conference** held at Les Embiez Islands, France, September 29th to October 2nd 2014.
- Resource person in a workshop on, “**Confocal and Live Cell Imaging**” conducted at Jawaharlal Nehru University, New Delhi, India in January 2014.
- Presented a Poster in the **International Conference on Amoebiasis** held on March 4-7, 2012 at Khajuraho, India.
- Presented a poster in **17th International symposium on Ca²⁺ binding proteins and calcium function in Health and disease** held in 2011 Beijing, China.
- Poster presentation in **Biosparks 2011** held in school of Life Sciences, Jawaharlal Nehru University, New-Delhi, India
- Presented a poster in **Society of Biological Chemists** in December 2010 held at Indian Institute of Sciences, Bangalore, India.
- Attended the workshop on “**Advantages of Confocal Microscopy**” held at Jawaharlal Nehru University, New Delhi, India in January 2008.

TECHNIQUES FAMILIAR WITH:

Biochemistry: Spectroscopy, protein purification (affinity and ion-exchange chromatography), Gel electrophoresis etc.

Molecular Biology: DNA and RNA isolation, Blotting techniques (Southern, Northern and Western Blotting) and other gene manipulation techniques.

Tissue Culture: Maintenance of cell lines (*Entamoeba histolytica*, *Disctyostelium discoideum*, mammalian), transfection by electroporation.

Cell Biology: Immunostaining, FACS, Confocal microscopy and live cell imaging.

REFERENCES

Prof. Alok Bhattacharya

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Jawaharlal Nehru University
New Delhi-110067
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Prof. Sudha Bhattacharya

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Dr. Ranjana Arya

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Declaration

I do hereby declare that the particulars given above are true to the best of my knowledge and belief.



(SAIMA ASLAM)