

# Curriculum Vitae

**Name: Dr. Smaranika Sahu**

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## CAREER OBJECTIVE:

To pursue career in Biological Science (Zoology) and to obtain a position in a professional environment where my education, interdisciplinary skills can be utilized. Motivated and talented Assistant Professor driven to inspire students to pursue academic and personal excellence with above 5 years of teaching in Biotechnology both graduate and post graduate students. Published four research articles in peer reviewed journals. Strong technical knowledge in Biochemistry, Molecular biology, Zoology. Good knowledge on basic computer (MS word, Excel, Power point). Flexible, Responsible, Hard working and a team player.

## ACADEMIC QUALIFICATION:

<b>Ph. D. (Zoology)</b> Department of Biotechnology, Utkal University, Odisha <i>Supervisor: Prof. Jagneshwar Dandapat</i>	Awarded (2016)
<b>M. Phil. (Zoology) (77% with 1<sup>st</sup> division)</b> North Orissa University, Baripada, Odisha	2008-2009
<b>M. Sc. (Zoology) (75.8% with 1<sup>st</sup> division)</b> North Orissa University, Baripada, Odisha	2006-2008
<b>B. Sc. (Zoology) (68.9% with 1<sup>st</sup> division)</b> North Orissa University, Odisha	2003-2006
<b>I. Sc. (50% with 2<sup>nd</sup> division)</b> CHSE, Odisha	2001-2003
<b>10<sup>th</sup> (72.3% with 1<sup>st</sup> division)</b> BSE, Odisha	2001

## RESEARCH EXPERIENCE

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**Doctoral Research:** Department of Biotechnology, Utkal University, Odisha (Research Advisor: Prof. Jagneshwar Dandapat)

**Thesis:** Cellular redox status during development of *Antheraea mylitta* under different physiological conditions

## TEACHING EXPERIENCE

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**Guest Faculty,** Department of Biotechnology, AMIT College, Utkal University (November 2015-April 2016)

**Lecturer,** Department of Biotechnology, AMIT College, Utkal University (July 2016 to December 2016)

**Assistant Professor,** Department of Biotechnology, MITS, Utkal University (December 2016-Continuing)

## CURRENT EDUCATIONAL ACTIVITIES

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Animal Diversity

Animal Diversity and Physiology

Animal Biotechnology

Animal Physiology and developmental Biology

Evolution and Environmental Biotechnology

## RESEARCH PUBLICATIONS

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1. B Patra, **Smaranika Sahu** and J. Dandapat (2014). Effect of aminotriazole on antioxidant defense system of tasar silkworm *Antheraea mylitta*. *Entomological science*. 17: 316-323.
2. **Smaranika Sahu**, J. Dandapat, N. Mohanty (2015). Foliar supplementation of zinc modulates growth and antioxidant defense system of tasar silkworm *Antheraea mylitta*. *Journal of Entomology and Zoolgy Studies*. 3:25-35.
3. A. Sahoo, **Smaranika Sahu**, J. Dandapat, L. Samanta (2016). Pro-oxidative challenges and antioxidant protection during larval development of non-mulberry silkworm, *Antheraea mylitta* (Lepidoptera:Saturniidae). *Italian Journal of Zoology*. 83(1): 3-14.

4. **Smaranika Sahu**, A. Dutta, D.K.Ray, J. Pradhan, J. Dandapat (2018). Host plant derived allelochemicals and metal componenets are associated with oxidative predominance and antioxidant plasticity in the tissue of silkworm, *Antheraea mylitta* : Further evidence of joint effects hypothesis. *Comparative Biochemistry Physiology B*. 223: 39-49.

## ABSTRACT PUBLICATIONS

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1. **SmaranikaSahu**, A sahuo and J Dandapat (2009) A comparative study on prooxidative challenges, antioxidant protection and sericin content in three ecoraces of wild tasar silkworm *Antheraea mylitta* 12<sup>th</sup> Orissa Bigyan Congress.
2. B patra, **Smaranika Sahu**, J. Dandapat and P.sen (2010) Effect of 3-amino- 1,2,4-Triazole on antioxidant defences ystem of tasar silkworm, *Antheraea mylitta* 13<sup>th</sup> Orissa Bigyan Congress.
3. A. Sahoo, **Smaranika Sahu**, J. Dandapat and L. Samanta (2013) Oxidative damaged products, Level of Hydrogen Peroxide and Antioxidant protection in Diapausing pupa of tasar silkworm, *Antheraeamylitta*: A comparative study in two voltine groups. National Symposium on recent advances in beneficial insects.
4. A. Dutta, **Smaranika Sahu**, J. Dandapat and N. Mohanty (2013) Foliar supplementation of ascorbic acid and Glycine modulate antioxidant defence components in the larvae of tasar silkworm, *Antheraea mylitta*: A comparative study in two voltine groups. National Symposium on recent advances in beneficial insects.
5. **Smaranika Sahu**, A. Dutta, J. Dandapat and N. Mohanty (2014) Effect of micronutrients on growth response and antioxidant defense system of Silkworm, *Antheraeamylitta*. National conference on Current trends in Life Sciences research and challenges ahead.
6. **Smaranika Sahu**, A. Dutta, J. Dandapat and N. Mohanty (2014) Selenium modulates antioxidant defense response in the midgut tissues of Vth instar larvae of *Antheraeamylitta*. Book of abstracts UGC sponsored National Seminar Current Trends or Animal Research in India.

## INSTRUMENT EXPERTISE

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- Operating and maintenance of Fluorescence Spectrophotometer, Ultra-Violet Visible Spectrophotometer, Column-Chromatography, HPLC, PCR.

## AWARDS AND FELLOWSHIPS

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**Project Fellow:** DST- Govt. of Odisha project, 28<sup>th</sup> May 2011 to 31<sup>st</sup> May 2014

**Research Assistant:** PURSE-Govt. of India, 6<sup>th</sup> February 2015 to 30<sup>th</sup> September 2015

## CONFERENCE ATTENDED AND POSTER PRESENTATION

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- 99<sup>th</sup> Indian Science Congress held at KIIT University, Bhubaneswar from January 3 to 7, 2012.
- Conference conducted by Immunological Society of India, Odisha Chapter, held at NISER, Bhubaneswar, Date: 11-08-2012.
- National conference on “Science for shaping the future on India” on the occasion of the 15<sup>th</sup> Odisha Bigyan Congress, October 18-19<sup>th</sup>, 2012 in the Department of Geology, Utkal University, Bhubaneswar.
- National Symposium on recent advances in beneficial insects (Apiculture, Lac-Culture and Sericulture), November 27-29<sup>th</sup>, 2013 in Indian Institute of Natural Resin and Gums (IINRG), Namkum, Ranchi, Jharkhand. (Oral Presentation)
- National Symposium on Emerging trends in Biotechnology: Present Scenario and future dimensions, 29<sup>th</sup>-30<sup>th</sup> March, 2014. P.G. Department of Biotechnology, Utkal University. (Poster Presentation)
- 85<sup>th</sup> Annual session of the The National Academy of Sciences India, 6-8<sup>th</sup>, 2015 in KIIT University, Bhubaneswar.
- National conference on Conservation of Eastern Ghats, 16<sup>th</sup>-17<sup>th</sup> April, 2016, in Utkal University, Bhubaneswar.
- National seminar on Biotechnology for sustainable utilization of bioresources, 17<sup>th</sup>-19<sup>th</sup> February, 2017 North Orissa University.
- Entrepreneurship Educators Program, 29<sup>th</sup> May-2<sup>nd</sup> June 2017, Biju Patanaik Institute of Information Technology, Bhubaneswar.

- National seminar on recent trends in microbiology and biotechnology, 16<sup>th</sup>-17<sup>th</sup> March, 2018, Department of Biotechnology, MITS school of Biotechnology and Society of Biotechnology and Bioinformatics Bhubaneswar. (Oral Presentation)
- National workshop on Emerging Trends in Life sciences for sustainable Development, 8<sup>th</sup>-9<sup>th</sup> February, 2019, P.G. Department of Life Sciences, Rama Devi University, Bhubaneswar.
- World Bank-Odisha Higher education program for excellence and equality sponsored National seminar cum Workshop on Proteomics in Public Health 15<sup>th</sup>-16<sup>th</sup> March, 2019, organized by P.G. Department of Biotechnology, Utkal University.
- National Seminar on Green Technology for Environment Management and 44<sup>th</sup> Annual conference of Orissa Botanical University, 22<sup>nd</sup>-23<sup>rd</sup> January 2020 organized by Department of Botany, North Orissa University.
- 17<sup>th</sup> Annual meeting of the society for free radical research-India and Conference on Role and Management of Oxidative stress in Human Disease (SFFR-INDIA), 12-15<sup>th</sup> February, 2020, organized by Bioscience Group, Bhabha Atomic Research Center, Mumbai. (Poster Presentation)

## PERSONAL DETAILS

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Name: Dr. Smaranika Sahu  
 Father's name: Mr. Prasanta Kumar Sahu  
 Mother's Name: Mrs Subasini Pal  
 Date of Birth: 01-05-1986  
 Sex: Female  
 Marital Status: Unmarried  
 Nationality: Indian  
 Permanent Address: AT. Raghunathpur, W.No. 19, P.O. Baripada,  
 Dist. Mayurbhanj, Pin. 757001  
 Present Address: VIM: 443, Sailashree Vihar, Bhubaneswar. Pin. 751024

## REFERENCES

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Prof. Jagneshwar Dandapat  
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Utkal University, 751004 India  
Email: jdandapat.nou@gmail.com  
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Prof. G.B.N. Chainy  
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