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PROFESSIONAL OVERVIEW

Cumulative research and teaching experience of over **nine** years.

Worked as a **Postdoctoral Research fellow** at the **Johns Hopkins University** for over **two years** did research in Microbiology, Parasitology, Infectious diseases and Public Health and **taught** research based lab section of **Biology of Parasitism (Graduate level)**. Also working as an **Adjunct faculty** with over **two years** of **teaching** experience of **undergraduate level Introductory Biology (Cell and Molecular Biology - lecture and lab)** in **community college**.

Worked as a **Graduate Research Assistant (GRA)** and **Graduate Teaching Assistant (GTA)** at the **University of Vermont** and had more than **six years** of **teaching** experience of **graduate and undergraduate level Population Genetics, Genetics Ecology and Evolution, Principles of Biology and Exploring Biology**. Also qualified to teach **Microbiology, Parasitology, Public Health and Biostatistics**. Research areas include **Population Genetics, Microbiology, Genetics, Ecology, Molecular Ecology, Evolution, Statistics and Computation**.

Worked as a **Part-time Lecturer** in **India** and had **one year** of **teaching** experience of both lecture and lab of **undergraduate level Microbiology, Invertebrate zoology, Anatomy & Physiology** and other **Zoology** courses.

EDUCATION

The University of Vermont, Burlington, USA	Ph.D.	2006 – 2012	Microbiology, Population Genetics
Calcutta University, Kolkata, India	M.Sc./ M.S.	2002-2004	Zoology
Calcutta University, Kolkata, India	B.Sc./B.S.	1999-2002	Zoology, Botany, Chemistry

APPOINTMENTS

Marquette University, Milwaukee, WI, USA	Assistant Professor	2015 - present	Department of Clinical Laboratory Science
The Johns Hopkins University, Baltimore, MD, USA	Postdoctoral Fellow	2012 - 2015	Dr. Clive Shiff
Community College of Baltimore County, Dundalk, MD, USA	Adjunct Faculty	2012 - 2014	Biology Department
The University of Vermont, Burlington, VT, USA	Graduate Teaching Assistant	2006 - 2012	Dr. Lori Stevens
Indian Statistical Institute, Kolkata, West Bengal, India	Research Associate	2005 - 2006	Dr. Joydev Chattopadhyay
Vidyasagar College, Kolkata, West Bengal, India	Part-time Lecturer	2005	Zoology department

PUBLICATIONS

- ✚ **Lodh, N.**, Rizzo, D., Kerans, B., McGinnis, S., Fytilis, N., and Stevens, L., 2015. If you've seen one worm, have you seen them all? Spatial, community and genetic structure of tubificid communities in Montana. *Freshwater Sciences* 34(3), 909-917.
- ✚ **Lodh, N.**, Naples, J.M., Bosompem, K.M., and Shiff, C. 2014. Detection of parasite-specific DNA in urine sediment obtained by filtration differentiates between single and mixed infections of *Schistosoma mansoni* and *S. haematobium* from endemic areas in Ghana. *PLoS ONE* 9 (3), e91144. [PMID: 24632992]

- ✚ **Lodh, N.**, Mwansa, J., Mutengo, M., and Shiff, C., 2013. Diagnosis of *Schistosoma mansoni* without the stool: comparison of three diagnostic tests to detect *Schistosoma mansoni* infection from filtered urine in Zambia. *American Journal of Tropical Medicine and Hygiene* 89 (1), 46-50. [PMID: 23716406]
- ✚ **Lodh, N.**, Kerans, B., and Stevens, L., 2012. The parasite that causes whirling disease, *Myxobolus cerebralis*, is genetically variable within and across spatial scales. *Journal of Eukaryotic Microbiology* 59 (1), 80-87. [PMID: 22151695]
- ✚ **Lodh, N.**, Stevens, L., and Kerans, B., 2011. Prevalence of *Myxobolus cerebralis* Infections Among Genetic Lineages of *Tubifex tubifex* at Three Locations in the Madison River, Montana. *Journal of Parasitology* 97, 531-534. [PMID: 21506853]

SOCIETY MEMBERSHIP

- ✚ North American Benthological Society: 2009 - Present
- ✚ American Society of Tropical Medicine and Hygiene: 2013 – Present
- ✚ American Society of Cell Biology: 2014 – Present
- ✚ American Society of Parasitologists: 2014 - Present

DISSERTATION

The **ecology, population genetic structure and spatial genetic variability** of the definitive **host**, stream dwelling worm *Tubifex tubifex* and *Myxobolus cerebralis*, the causative **parasite** of **Whirling Disease** in **salmonid fishes**. Department of Biology, University of Vermont, VT, USA, 17th February, 2012.

LEADERSHIP ACTIVITIES

- ✚ **Public Relations Director**, Graduate Student Senate, The University of Vermont, August 2010 - May 2011.
~ Elected by graduate student votes and maintained communication with 1300 graduate students of the University of Vermont and act as a public liaison for Graduate Student Senate.
- ✚ **Departmental Senator**, Graduate Student Senate, The University of Vermont, September 2009 to July 2010.
~ Represented Biology department graduate students as a student liaison to Graduate Student Senate.
- ✚ **Graduate Student Representative**, Advisory Committee, Department of Biology, The University of Vermont, September 2009 - May 2011.
~ Represented Biology department graduate students as a student liaison to the department advisory committee and advocated for student wellbeing.
- ✚ **Student Member**, International Student Task Force, The University of Vermont, September 2010 - August 2011.
~ Represented international students as a student liaison to the University of Vermont task force.
- ✚ **President**, Indian Student Association, The University of Vermont, May 2010 - October 2010.
~ Elected, raised money, managed and organized several cultural and recreational gathering including “Diwali Night” for 700 people.
- ✚ **Vice President**, Indian Student Association, The University of Vermont, September 2009 - April 2010.
~ Elected, raised money, managed accounts, actively participated in organizing several cultural programs.
- ✚ **Executive Member**, Indian Student Association, The University of Vermont, September 2007 - September 2009.
~ Elected, actively participated in organizing several cultural programs.
- ✚ **Moderator** for Student research Conference, The University of Vermont, 2010, 2011.
~ Moderated specific scientific session of graduate student conference.
- ✚ **Student member** of interview committee of International Student Coordinator, Office of International Education, The University of Vermont, June 2009.
~ Performed as a graduate student representative of search committee to hire the University of Vermont F1 coordinator.
- ✚ **Student Panel Member** for the VOICE panel, The Office of Student Life, The University of Vermont, March 2009.
~ Participated as a panel member and discussed and answered about international student issues.
- ✚ **General Secretary** of Zoology Department reunion committee, Ballygaunge Science College campus, Calcutta University, Kolkata, India, 2003 - 2004.
~ Organized, raised money, managed and oversee two consecutive reunions of the Zoology department.

CURRENT TEACHING RESPONSIBILITY

- ✚ **CLLS 3160:** Molecular Diagnostics
- ✚ **CLLS 3127:** Medical Microbiology
- ✚ **CLLS 2060:** Public Health

PREVIOUS TEACHING EXPERIENCE

Adjunct Faculty Part-time 2012 - Present	Department of Biology	Community College of Baltimore County	BIOL 110 - Cell and Molecular Biology (40 students) – Large Introductory Biology course	Lecture and Lab <i>Undergraduate level</i>
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A. Responsibility: Developed **Cell and Molecule Biology** course curriculum, guidelines and student policies, lectures and laboratory materials for **professional, culturally and ethnically diverse** undergraduate students for over **two years**. Responsibilities include **lecture and lab** through **PowerPoint presentation, Blackboard** maintenance, lecture and lab **exam design** and **grading, advising students**, holding **office hours** and attending **professional development** seminars and workshops.

Postdoctoral Fellow Full-time 2012 - 2014	Department of Molecular Microbiology and Immunology	Johns Hopkins School of Public Health	Biology of Parasitism (20 students)	Lab <i>Graduate level</i>
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A. Responsibility: Taught live experiment of laboratory section for **Biology of Parasitism** course to graduate students for **two years** that dealing with the outcome of *Plasmodium berghei* ANKA exposure and drug treatment on **two different mouse hosts**. Responsibilities included **train and advice graduate students** on mouse handling and other procedures related to the experiment, **mouse handling** at the **animal care facility**, grading **laboratory exams** and maintaining **CoursePlus**.

Graduate Teaching Assistant Full-time 2006 - 2011	Department of Biology	The University of Vermont	BIOL 254 – Population genetics (25 students)	Lab <i>Graduate level</i>
			BCOR 102 – Ecology and Evolution (25 students part of 150 students)	<i>Undergraduate level</i>
			BCOR 012 – Exploring Biology (50 students out of 400 students)	<i>Undergraduate level</i>
			BCOR 011 – Exploring Biology (50 students out of 300 students)	<i>Undergraduate level</i>
			BIOL 2A – Principles of Biology (40 students out of 600 students)	<i>Undergraduate level</i>

A. Responsibility: Taught **laboratory** sections and provide **lectures** through **PowerPoint presentation** for **Population Genetics, Ecology and Evolution, Exploring Biology and Principles of Biology** courses for graduate and undergraduate students throughout Ph.D. for **over five years**. Responsibilities included **presentation, Blackboard maintenance, exam design, grading** of both lecture and lab, **advising students**, and conducting **office hours**.

Lecturer Part-Time 2004 - 2005	Zoology Department	Vidyasagar College, Calcutta University	Anatomy & Physiology Vertebrate and invertebrate Zoology Microbiology	Lecture and Lab <i>Undergraduate level</i> <i>Undergraduate level</i> <i>Undergraduate level</i>
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A. Responsibility: Taught lecture and laboratory of **Zoology major courses** (30 students) **Non-zoology major courses** (50 students) and **dissection** for undergraduate zoology **major and non –major students** for **one year**. Responsibilities include **presentation, exam design, grading** of both lecture and lab, **advising students**, and conducting **office hours**.

RESEARCH and WORK EXPERIENCE

Postdoctoral Fellow 2012 – 2014	Department of Molecular Microbiology and Immunology	Johns Hopkins School of Public Health	Dr. Clive Shiff
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A. Project: Developed efficient diagnosis of three major human parasites, two Schistosomes and Strongyloides by amplifying species-specific DNA from urine sediment obtained by filtration from endemic African and South American countries and implement that diagnostic approach in the field condition of endemic areas. Along with that I am also working on polyparasitism, prevalence, drug test, epidemiology and genetics of these parasites. Other responsibilities include **IRB approval** for studies, **consent form and protocol** preparation for human sample collection and getting certification (HIPPA, Ethical, Animal handling) for research.

B. Techniques:

- Trained in performing **DNA extraction** from **urine sediment obtained by filtration on filter paper**; **Loop Mediated Isothermal Amplification (LAMP)**; **PCR** (repeat fragments); **Gel electrophoresis**; **PCR product purification**; **DNA sequencing** and **Sequence editing**.
- **Mouse behavioral assay** to determine the outcome of *Plasmodium berghei* ANKA exposure and drug treatment on **two different mouse hosts**.

C. Analytical software:

- Well versed in using **JMP**, **Estimate S**, and **MedCalc**.

D. Achievements: Published two peer review articles in two years.

E. Contribution: Established international collaboration with highly acclaimed researchers from Ghana, Zambia and Argentina.

Graduate Research Assistant 2006 – 2012	Department of Biology	The University of Vermont	Dr. Lori Stevens
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A. Responsibility: Examined the distribution, abundance and genetic population structure of parasite (*Myxobolus cerebralis*) and annelid host (*Tubifex tubifex*) of Whirling Disease (fish disease) to increase understanding of the spread, severity and potential control of myxozoan diseases among wild fish populations.

B. Techniques:

- Trained in performing **DNA extraction** from **whole worm**; **PCR** (generic, nested); **Gel electrophoresis**; **PCR product purification**; **Gel purification**; **Molecular Cloning**; **DNA sequencing** and **Sequence editing**.
- Learned to perform probe-based **qPCR**, high-resolution mastermix based **qPCR** and **melt curve analysis**.

C. Analytical software:

- Well versed in using **JMP**, **Sequencher**, **Clustal**, **GenAEx**, **Arlequin**, **DnaSp**, **GENEPOP**, **STRUCTURE**, **SAMOVA**, **HP-RARE**, **MEGA**, and **Phylix**.

D. Computational skill:

- Well versed in Microsoft **Word**, **PowerPoint**, and **Excel**.
- Comfortable using **Keynote**, **Numbers**, **Pages**, **Adobe**, **File maker**, **EndNote (Referencing)**.
- Knowledgeable about **Webpage designing**.

F. Achievements: Published three peer review articles and two more manuscripts are in preparation.

G. Contribution: Established U.S.A. collaboration with highly acclaimed researchers and won Graduate Student Assistantship from NSF EPSCoR.

All Night Study Monitor 2012	Bailey Howe Library	The University of Vermont	
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A. Responsibility: Monitor undergraduate students all night.

Project Assistant 2005 – 2006	Agricultural and Ecological Research Unit	Indian Statistical Institute	Dr. Joydev Chattopadhyay
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A. Responsibility: Assessed ecological and distribution pattern of local marine invertebrates collected from Bay of Bengal, India and predicted the probable distributional pattern for a larger area based on the collected data by mathematical modeling.

Research trainee 2004 – 2005	Behavioral Research Unit	S. N. Pradhan Center for Neurosciences	Dr. Debjani Guha
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A. Responsibility: Assessed behavioral of neurologically impaired mice.

MENTORING and ADVISING ACTIVITIES

- + **Taught molecular techniques** to a graduate student, Shterna Soiefer on Strongyloides project, May 2015 - August 2015.
- + **Taught molecular techniques** to a graduate student, Nicole Assumpcao on Schistosomiasis project, February 2015 - April 2015.
- + **Mentored, advised, and taught molecular techniques** an undergraduate student, Jia Xin Yu on Whirling disease project, January 2008 - December 2009.
- + **Mentored, advised and taught molecular techniques** to several graduate and undergraduate throughout Ph.D..
- + Performed several tours of Biology Department and addressed question of several prospective undergraduate students and their parents, The University of Vermont, 2010 - 2011.
- + **Mentored, oversee and guide** undergraduate students, SACNAS conference, Dallas, Texas, October 2009.
- + **Mentored, advised, and taught molecular techniques** to 12 high school students as a part of High School Outreach program, The University of Vermont April 2009.
- + **Taught** Bengali language to a high school teacher, Burlington Community School, Burlington, Vermont, February 2012.

FELLOWSHIPS and AWARDS

- + **Faculty Development Award**, \$600, Marquette University, USA, 2015.
- + **Graduate Research Assistantship grant** – “Geomorphology and Biodiversity”, \$15,000, VT EPSCoR, NSF EPS-0701410, January 2008 – June 2008.
- + **Best Poster Award** - “Distribution and Severity of Whirling Disease in Natural Streams of United States”, \$50.00, Lodh N., Stevens L., Graduate Research Day, The University of Vermont, USA, February 2007.
- + **National Award** on the basis of marks achieved in Masters Level (M.Sc.), \$50.00, India, 2004.
- + **National award** on the basis of marks achieved in Graduate Level (B.Sc.), India, 2002.
- + **National award** on the basis of marks achieved in 10th standard, India, 1997.

COLLABORATIVE WORK EXPERIENCE

- + Collaborating with colleagues at the University of Zambia, Zambia on Schistosomiasis project, 2012 – present.
- + Collaborating with colleagues at the Noguchi Memorial Institute for Medical Research, Ghana on Schistosomiasis project, 2012 – present.
- + Working with colleagues at the University of Salta, Argentina on Strongyloidiasis project, 2013 - present.
- + Collaborated with colleagues from University of Montana on Whirling disease project.

MANUSCRIPT REVIEW EXPERIENCE

- + Review manuscripts for PLoS ONE.

GRANT WRITING EXPERIENCE

- + Wrote several grant as a Postdoctoral Research Fellow and as a Ph.D. candidate.

- ~ R21 (2014) – Score 30.
- ~ NSF grant
- ~ Internal Johns Hopkins University grant – Score 2.65 out of 5 (2013) and 2.75 out of 5 (2013)
- ~ Bill and Melinda Gates Foundation grant

MEDIA COVERAGE of SCIENTIFIC WORK

- + **Interview** about **Schistosomiasis diagnostic research**, Bloomberg School of Public Health Magazine, Fall 2013 issue, The Johns Hopkins University, October 2013.
- + **Interview** about **Whirling Disease research**, University Communication, Student Research Conference 2011, The University of Vermont, April 2011.

SPECIAL SKILLS

- + Fluent in **English, Hindi** and **Bengali** languages.
- + Experienced with respect to **ordering lab supplies and office supplies**.
- + Performed several stage shows.
- + Well versed in painting skills.
- + Well versed in poetry reading.

SCIENTIFIC PRESENTATIONS

• **Extramural Presentations – Oral:**

- + “LAMP: Point of care diagnosis for multiple Schistosome parasites”, **Lodh N.**, Mikita K., Shiff C. J., American Society for Parasitologists, Nebraska, USA, June 2015.
- + “Detection of mixed Schistosome infections by amplifying species-specific DNA from urine sediment obtained by filtration”, **Lodh N.**, Naples J. M., Bosompem K., Quartey J., Shiff C. J., American Society of Tropical Medicine and hygiene, Louisiana, USA, November 2014.
- + “Point of care diagnosis for Schistosomiasis: multi parasite DNA detection in single urine sample”, **Lodh N.**, Naples J. M., Bosompem K., Shiff C. J., American Society for Parasitologists, Louisiana, USA, July 2014.
- + “Assessment of spatial, community and genetic structure of stream dwelling tubificid worms in Montana, USA”, **Lodh N.**, Rizzo, D. M., Kerans, B. L., McGinnis S, Fytilis, N., Stevens L., American Society for Parasitologists, Louisiana, USA, July 2014.
- + “Biotic and Abiotic Correlates to Whirling Disease Risk”, McGinnis S, Kerans, B. L., **Lodh N.**, McMahon T. E., Stevens L., Montana Section – American Water Resources Association conference, Montana, USA, October 2013.
- + “New gold standard of Schistosome diagnosis without using stool”, **Lodh N.**, Naples J. M., Bosompem K., Shiff C. J., American Society of Tropical Medicine and hygiene, Washington DC, USA, November 2013.
- + “A DNA based method to identify tubificid taxa in stream communities in the Madison River, USA”, Stevens L., **Lodh N.**, Rizzo D., Mathon B., Kerans B. L., Worm Summit, Turkey, October, 2009.
- + “Genetic Variability of *Tubifex tubifex*, the Intermediate Host of Whirling Disease”, **Lodh N.**, Stevens L., Kerans, B. L., Rizzo, D. M. North American Benthological Society, Wisconsin, USA, May 2009.
- + “Factors related to spatial patterns in whirling disease risk”, Kerans B. L., McGinnis S., McMahon T. E., **Lodh N.**, and Stevens L., North American Benthological Society, Wisconsin, USA, May 2009.
- + “Effect of Prostaglandin on reproduction of Indian Major Carps”, **Lodh N.**, Department of Zoology, Calcutta University, Kolkata, India, May 2004.

• **Extramural Presentations – Poster:**

- + “LAMP: Point of care diagnosis for *Schistosoma mansoni* and *S. haematobium*”, **Lodh N.**, Mikita K., Shiff C. J., American Society for Parasitologists, Pennsylvania, USA, October 2015.
- + “Detecting multi Schistosome species DNA in single urine sample by LAMP: a novel diagnostic test for Schistosomiasis”, **Lodh N.**, Mikita K., Naples J. M., Bosompem K., Quartey J., Shiff C. J., American Society of Tropical Medicine and hygiene, Louisiana, USA, November 2014.
- + “The 18S rRNA and ITS-1 variability of *Myxobolus cerebralis*, the causative parasite of Whirling Disease”, **Lodh N.**, Stevens L., Kerans, B. L., Rizzo, D. M., New England Association of Parasitologists, Massachusetts, USA, November 2010.
- + “Investigating the Genetic Variability and Spatial Distribution of *Tubifex tubifex*”, Yu J., Stevens L., **Lodh N.**,

Droppman M., Rizzo, D. M. Society for Mathematical Biology, Toronto, Canada, August 2008.

• **Presentations at the Johns Hopkins University:**

- ✚ Talk - "Schistosomiasis: diagnosis and Beyond", **Lodh N.**, Department of Molecular Microbiology and Immunology, School of Public Health, Johns Hopkins University, Maryland, USA, July 2013.
- ✚ Poster - "Good Things are Worth Waiting for": Approach for Accurate Diagnosis of Schistosomiasis Infected People in Zambia", **Lodh N.**, Mwansa J. C., Mutengo, M. M., Shiff, C. J., Postdoctoral Symposium, School of Public Health, Johns Hopkins University, Maryland, USA, June 2013.
- ✚ Talk - "Whirling disease and Schistosomiasis", **Lodh N.**, Department of Molecular Microbiology and Immunology, School of Public Health, Johns Hopkins University, Maryland, USA, June 2012.

• **Presentations at the University of Vermont:**

- ✚ Poster - "Genetic Variability Across Spatial Scales of the Causative Parasite of Whirling Disease *Myxobolus cerebralis*", **Lodh N.**, Stevens L., Kerans, B. L., Rizzo, D. M. VT EPSCoR, NSF Annual Research Day, University of Vermont, USA, June 2011.
- ✚ Talk - "Comparison of 18S and ITS-1 rRNA of *Myxobolus cerebralis*, the causative parasite of the Whirling Disease", **Lodh N.**, Student research Conference, University of Vermont, USA, April 2011.
- ✚ Talk - "Genetic variability of the Whirling Disease Host and Parasite", **Lodh N.**, Department of Biology, The University of Vermont, USA, April 2011.
- ✚ Talk - "The Genetic Variability of *Myxobolus cerebralis*, the causative parasite of Whirling Disease", **Lodh N.**, Student Research Conference, University of Vermont, USA, April 2010.
- ✚ Talk - "Investigating the Spatial Distribution of Stream Sediment Dwelling Worms", Yu J., Stevens L., Rizzo D., Morrissey L., **Lodh N.**, Kerans B. L., Student Research Conference, University of Vermont, USA, April 2010.
- ✚ Talk - "A multiplex qPCR assay to identify tubificid taxa in stream communities", **Lodh N.**, Stevens L., Rizzo D., Mathon B., Kerans B. L., VT EPSCoR annual meeting, Vermont, USA, March 2010.
- ✚ Talk - "Is *Myxobolus cerebralis* Variable: Whirling Disease Perspective", **Lodh N.**, EcoLunch Group, Department of Biology, The University of Vermont, USA, November 2009.
- ✚ Talk - "Impact of Genetic Variability of *Tubifex tubifex*, the Intermediate Host of Whirling Disease", **Lodh N.**, Graduate Research Day, University of Vermont, USA, April 2009.
- ✚ Talk - "Genetic Variability of the Parasite and the Intermediate Host of Whirling Disease", **Lodh N.**, EcoLunch Group, Department of Biology, The University of Vermont, USA, March 2009.
- ✚ Talk - "Investigating the Spatial Distribution of the Host of *Myxobolus cerebralis*, *Tubifex tubifex* and Other Stream Macro Invertebrates", Yu J, Stevens L., Rizzo D., Pearce A., Morrissey L., **Lodh N.**, Kerans B. L., McNair, The University of Vermont, USA, August 2008.
- ✚ Talk - "Spatial and Temporal Variation in the Incidence of the Whirling Disease in the Intermountain West", **Lodh N.**, Graduate Research Day, University of Vermont, USA, March 2008.
- ✚ Talk - "Spatial and Temporal Variation in the Incidence of the Whirling Disease in its Intermediate host", **Lodh N.**, EcoLunch Group, Department of Biology, The University of Vermont, USA, March 2008.
- ✚ Poster - "Counter Propagation Artificial Neural Networks to Predict Disease Risk", Stevens L., Kerans, B. L., **Lodh N.**, Rizzo D.M., VT EPSCoR, NSF Annual Research Day, University of Vermont, USA, June 2008.
- ✚ Talk - "Genetic Variability in the Parasite and Intermediate Host of Whirling Disease", **Lodh N.**, EcoLunch Group, Department of Biology, The University of Vermont, USA, September 2007.
- ✚ Poster - "Distribution and Severity of Whirling Disease in Natural Streams of United States", **Lodh N.**, Stevens L., Graduate Research Day, University of Vermont, USA, February 2007.

CONFERENCES, SYMPOSIUM and WORKSHOPS ATTENDED

• **Conferences and Symposiums:**

- ✚ 7th Annual NIH career Symposium, National Institute of Health, Bethesda, Maryland, USA, May 2014.
- ✚ 2nd Annual Symposium on "Mass Spectrometry Applications in the Biomedical Sciences", Baltimore, Maryland, USA, May 2014.
- ✚ 62nd Annual Meeting of American Society of Tropical Medicine and hygiene, Washington DC, USA, November 2013.
- ✚ 18th Annual Meeting of New England Association of Parasitologists, Amherst, Massachusetts, USA, November 2010.
- ✚ 6th Annual NIH career Symposium, National Institute of Health, Bethesda, Maryland, USA, May 2013.
- ✚ Symposium on "Clinical and Transitional Research: Inflammation and Cancer", The University of Vermont,

- Burlington, Vermont, USA, 2010.
- ✚ Conference on “Improving the Human Condition: Challenges for Interdisciplinary Science”, SACNAS, Dallas, Texas, USA, October 2009.
 - ✚ 57th Annual Meeting of North American Benthological Society, Michigan, Wisconsin, USA, May 2009.
 - ✚ Symposium on “Environmental Cancers: Risk Factors, Mechanisms, and Therapies”, The University of Vermont, Burlington, Vermont, USA, 2009.
 - ✚ NSF Research Day, The University of Maine, Orono, Maine, USA, 2008.
 - ✚ Conference on “Clinical and Translational Research: Treating Breast and GI Cancers”, The University of Vermont, Burlington, Vermont, USA, 2007.
 - ✚ Conference on “Biosafety”, Department of Zoology, Vidyasagar College, Calcutta University, Kolkata, West Bengal, India, February 2006.
 - ✚ Conference on “Biological Research Now and Beyond”, Department of Zoology, Calcutta University, Kolkata, West Bengal, India, March 2005.
 - ✚ National Symposium on "Zoology A Neorealistic Approach", Department of Zoology, Calcutta University, Kolkata, West Bengal, India, March 2004.
 - ✚ Conference on “Integrated Pest Management”, Science for Society, Rahara, West Bengal, India, February 2000.
- **Workshops:**
- ✚ Preparing for Industry Careers, SciPhD, Johns Hopkins School of Public Health, Baltimore, Maryland, USA, April 2014.
 - ✚ Grantcraft, Johns Hopkins Medicine, The Johns Hopkins University, Baltimore, Maryland, USA, August 2013.
 - ✚ Shistosomiasis Training Course, Biomedical Research Institute, Rockville, Maryland, USA, September 2012.
 - ✚ Aquaculture training program, WBCADC Ajodhya Hills, Department of Zoology, Calcutta University, Purulia, West Bengal, India, February – March 2004.
 - ✚ Wastewater-fed aquaculture, Central Institute of Freshwater Aquaculture (C.I.F.A.), Rahara, West Bengal, India, November 2003.