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Postdoctoral Research Associate

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http://montoothlab.unl.edu/Matoo_Research.html
https://scholar.google.com/citations?user=l_RysLwAAAAJ&hl=en

EDUCATION

2009-2013 Ph.D. Biology, University of North Carolina at Charlotte (UNCC),
 Advisor: Dr. Inna M. Sokolova
 Dissertation: Interactive effects of ocean acidification and multiple stressors
 on the physiology of marine bivalves.

2005-2007 M.Sc. Microbiology, Bangalore University, India.
2002-2005 B.Sc. Microbiology, Bangalore University, India.

PROFESSIONAL EXPERIENCE

10/14- present Postdoctoral Research Associate, School of Biological Sciences,
 University of Nebraska-Lincoln, Advisor: Kristi L. Montooth.

02/14-10/14 Adjunct Research Fellow, Department of Biological Sciences,
 Department of Geography and Earth Sciences
 University of North Carolina at Charlotte.

01/09-11/10 Research Fellow, Mass Spectrometry and Proteomics Facility,
 Carolinas Medical Center, Charlotte.

10/07-01/09 Research Fellow, Institute of Genomics and Integrative Biology,
 New Delhi, India.

AWARDS AND FELLOWSHIPS

Indian Council of Medical Research Fellowship (ICMR)
Research Assistant Award - Carolinas Medical Center and University of North Carolina at Charlotte
Graduate Assistant Support Plan Award - University of North Carolina at Charlotte
(for 2010, 2011, 2012, 2013)
Student Travel Award - National Shellfish Association.
Student Travel Award to The Third International Symposium on the Ocean in a High CO₂ World .
Student Travel Award - Woods Hole Oceanographic Institute.
Student Travel Award - Society of Environmental Toxicology and Chemistry.

PROFESSIONAL ACTIVITIES

Scientific Advisor	eosMYCO Environmental Remediation, INC. (2013-2016)
Grant Review	NSF: Evolutionary Processes Doctoral Dissertation Improvement Grant program (DDIG). South Carolina Sea Grant Consortium: Ocean Acidification Proposal University of Nebraska-Lincoln: Undergraduate Creative Activities and Research Experiences (UCARE) program.
Memberships	National Shellfish Association (NSA). Society for Environmental Toxicology and Chemistry (SETAC). Genetics Society of America (GSA).
Manuscript Review	PLoS Genetics, International Journal for Tropical Biology and Conservation, Marine Environmental Research, Journal for Insect Physiology, Environmental Research, Marine Ecology Progress Series, Aquatic Toxicology
Services	Poster judge for Graduate Research Fair, University of Nebraska-Lincoln Poster judge for Graduate Research Fair in School of Biological Sciences, University of Nebraska-Lincoln. Poster judge for Graduate Research Fair, University of North Carolina at Charlotte. Session volunteer at 103rd Annual Meeting of National Shellfish Association. Session volunteer at 34th Annual Meeting of SETAC North America . Judge for student talk at Society for Integrative and Comparative Biology meeting, 2017.
Lab mentorship	Mentored 6 undergraduate students in Sokolova lab at UNC Charlotte (2009-2013) Mentoring 2 undergraduate students in Montooth lab (2015-present)

PUBLICATIONS

Manuscripts: * indicates equal authorship

Matoo OB, Ivanina AV, Ullstad C, Beniash E and Sokolova IM. (2013). Interactive effects of elevated temperature and CO₂ levels on metabolism and oxidative stress in two common marine bivalves *Crassostrea virginica* and *Mercenaria mercenaria*. Comparative Biochemistry and Physiology Part A Molecular & Integrative Physiology. 164: 545-553.

Matoo OB, *Dickinson GH, , Beniash E, Sokolova IM. (2013). Interactive effects of salinity and elevated CO₂ levels on juvenile hard shell clams *Mercenaria mercenaria* . The Journal of Experimental Biology. 216: 2607-2618.

Ivanina AV, Dickinson GH, **Matoo OB** , Bagwe R, Beniash E and Sokolova IM. (2013). Interactive effects of elevated temperature and CO₂ levels on energy metabolism and biomineralization of marine bivalves *Crassostrea virginica* and *Mercenaria mercenaria*. Comparative Biochemistry and Physiology Part A Molecular and Integrative Physiology. 166:101-111.

Götze S, **Matoo OB**, Saborowski R, Sokolova IM. (2014). Interactive effects of CO₂ and trace metals on the proteasome activity and cellular stress response of marine bivalves *Crassostrea virginica* and *Mercenaria mercenaria*. Aquatic Toxicology. 149: 65-82

Dickinson GH, Ivanina AV, **Matoo OB**, Pörtner HO, Lanning G, Bock C, Beniash E, Sokolova IM. (2012). Interactive effects of salinity and elevated CO₂ levels on juvenile eastern oysters *Crassostrea virginica*. The Journal of Experimental Biology 215:29-43.

Matoo OB, Lanning C, Brock C, Melzner F, Beniash E and Sokolova IM. Interactive effects of elevated temperature and CO₂ on the bioenergetics and biomineralization of blue mussel *Mytilus edulis* (in preparation).

Matoo OB, Julick C, Montooth KL. Role of genetic variation in the ontogeny of *Drosophila* (in preparation).

Invited Book Chapter

Sokolova IM, **Matoo OB**, Dickinson GH, and Beniash E. Physiological Effects of Ocean Acidification on Animal Calcifiers In. Stressors in the marine environment: physiological and ecological responses and societal implications (eds M. Solan and N. Whiteley). Oxford Publishing Group. 2016

PRESENTATIONS

Evolution, 2017 (poster)

Society for Integrative and Comparative Biology, 2017 (talk)

Evolution, 2016 (poster)

Drosophila Research Conference, 2015 (poster)

Society for Environmental Toxicology and Chemistry, 2013 (talk)

Ocean Carbon and Biogeochemistry Workshop, Woods Hole, 2013 (poster)

Carolinan SETAC, 2013 (poster)

International Symposium of Ocean Acidification, 2012 (poster)

National Shellfish Association, 2012 (poster)

University of North Carolina at Charlotte, 2012 (talk)

University of North Carolina at Charlotte, 2011 (poster)

University of North Carolina at Charlotte, 2010 (poster)

TEACHING and WORKSHOPS

1. Graduate Teaching Assistant at University of North Carolina, Charlotte
BIOL 1110, Biology for Non-majors.
BIOL 2120, Biology for Majors.
BIOL 3144, Ecology.
BIOL 2273, Human Anatomy and Physiology.
2. Project Instructor for GEAR UP NC Summer Residential Enrichment Program , UNC Charlotte
STEM/Biotechnology Program.
3. Content creator for science outreach 'Sunday with a Scientist' program with State Museum of
Nebraska- Lincoln.
4. Attended Spring Teaching Workshop Series, 2017 with University of Nebraska-Lincoln.
5. Completed an online six weeks course -An Introduction to Evidence-Based Undergraduate STEM
Teaching- offered through Center for Integrated Teaching, Research and Learning (CITRL).
6. ANGUS: Analyzing High Throughput Sequencing Data for two weeks at University of California, Davis ,
2017

Community Services and outreach:

1. Volunteer for Science Olympiad (Nebraska), 2016 for high school.
2. Volunteer for ' Investigate' – Saturday science lab, 2016 with State Museum of Nebraska.
3. Volunteer for 'Investigate-Saturday science lab', 2017 with State Museum of Nebraska.
4. Volunteer for Darwin's Day, 2017 with State Museum of Nebraska.
5. Volunteer for Science fair day with University of North Carolina at Charlotte (2011, 2012 and
2013).

REFERENCES

Dr. Kristi L. Montooth
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Dr. Sandra Clinton
Research Assistant Professor, Geography and Earth Sciences
Associate Director, Infrastructure, Design, Environment and Sustainability Center
Associate Director, I/UCRC Sustainably Integrated Buildings and Sites
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