

## CURRICULUM VITAE

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Andrei Tatarenkov

### CONTACT INFORMATION:

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**CITIZENSHIP:** USA

### EDUCATION:

1982-1987 B.Sc. in Biology, Far-Eastern State University, (Vladivostok, Russia).

February, 1995 Ph.D. in Genetics, St. Petersburg State University (St. Petersburg, Russia).

### PROFESSIONAL APPOINTMENTS:

1987 – 1995 Researcher at the Laboratory of Genetics, Institute of Marine Biology, Russian Academy of Sciences, Vladivostok, Russia. Advisor: Dr. A.I. Pudovkin.

1995 – 1996 Post-doctoral Researcher at Tjärnö Marine Biological Laboratory, Göteborgs Universitet, Sweden. Advisor: Dr. K. Johannesson.

1996 – 2002 Post-doctoral Researcher at Department of Ecology and Evolutionary Biology, University of California, Irvine, USA. Advisor: Dr. F.J. Ayala.

2002 – 2004 Principal Research Engineer at Tjärnö Marine Biological Laboratory, Göteborgs Universitet, Sweden.

2004 – 2005 Research Coordinator, Department of Genetics, University of Georgia, Athens, USA (Dr. John Avise Lab).

2005 – Present Associate Specialist, Department of Ecology and Evolutionary Biology, and Biological Sciences Minority Science Programs, University of California, Irvine, USA

**RESEARCH INTERESTS:** Population genetics, molecular ecology, molecular evolution, phylogeography, genetics of speciation, sibling species, conservation genetics, molecular phylogenetics, comparative genomics, mating systems, sexual selection, microbiology, evolution of antibiotic resistance, organization and evolution of plasmids and bacterial genomes, next generation sequencing (NGS), transcriptome, bioinformatics, fish, marine invertebrates.

### ACADEMIC SERVICES:

#### Peer reviewer for academic journals:

- *Molecular Ecology Resources*
- *Insect Molecular Biology*
- *Journal of Molluscan Studies*
- *Journal of Phycology*
- *BMC Research Notes*
- *Molecular Ecology*
- *Gene*
- *PlosOne*
- *Aquatic Botany*
- *BMC Genomics*
- *Biological Journal of the Linnean Society*
- *Behavioral Ecology and Sociobiology*
- *Journal of Ocean University of China*
- *Environmental Biology of Fishes*
- *Molecular Phylogenetics and Evolution*

- *Mitochondrial DNA*
- *Journal of Fish Biology*
- *CICIMAR Océánides*
- *Frontiers in Microbiology*
- *Journal of Zoology*
- *Royal Society Open Science*
- *Ecology and Evolution*
- *Biology Letters*
- *Naturwissenschaften*
- *Biochemical Genetics*
- *Frontiers in Genetics*
- *Zoology*
- *PeerJ*
- *South American Journal of Herpetology*
- *Canadian Journal of Zoology*
- *Molecular Biology and Evolution*
- *European Journal of Entomology*
- *Frontiers in Marine Science*
- *Molecular Biology Reports*

Grant reviewer (*ad hoc*):

- *National Science Foundation* (NSF, 2009, 2010, 2016)
- *Biotechnology and Biological Sciences Research Council* (BBSRC, 2014)
- *National Geographic Society* (2017)

Editorial Boards (Current):

- *Frontiers in Ecology & Evolution* (Associate Editor for *Phylogenetics, Phylogenomics, and Systematics* specialty)
- *Heliyon* (Editorial Board Member)
- *Turkish Journal of Fisheries and Aquatic Sciences* (Section Editor)
- *GenAqua* (Section Editor).

Graduate Committees:

- Graduate Faculty of the University of Alabama (2015-Present).

**SEMINARS, CONFERENCE AND SYMPOSIUM PRESENTATIONS:**

Note: Asterisks indicate special, invited or plenary lectures

- 1989 Third School-Seminarium on Genetics and Selection of Animals, Novosibirsk, Russia
- 1990 3rd International Symposium on Littorinid Biology, Dale-Fort, Wales, UK
- 1992 Conference of Young Scientists, Institute of Marine Biology, Russian Academy of Sciences, Vladivostok, Russia
- 1993 4th International Symposium on Littorinid Biology, Roscoff, France
- 1994 Department of Invertebrate Zoology, St. Petersburg State University, Russia
- 1994 Department of Genetics, St. Petersburg State University, Russia
- 1994 Vavilov's Society of Geneticists and Selectionists (Far-Eastern Branch), Vladivostok, Russia
- \*1995 School of Biology, University of Nottingham, U.K.
- \*1998 Bodega Marine Laboratory (UC Davis), California
- 2002 43rd Annual Drosophila Research Conference, San Diego, California
- 2003 Tjärnö Marine Biological Laboratory, Göteborg University, Sweden
- 2003 Marine Research Center (Stockholm University), Askö, Sweden
- 2004 Department of Marine Ecology, Göteborg University, Sweden
- 2004 Kristineberg Marine Research Station, Fiskebäckskil, Sweden
- 2004 Tjärnö Marine Biological Laboratory, Göteborg University, Sweden
- 2005 Southeastern Ecology and Evolution Conference (SEEC), Athens, Georgia
- 2006 Annual Meeting of the British Phycological Society, Plymouth, U.K.
- 2006 Conference on the Ecological and Evolutionary Ethology of Fishes, Soka University, Aliso Viejo, California

2010 Department of Ecology Evolutionary Biology, University of California, Irvine, California  
2010 Conference on the Ecological and Evolutionary Ethology of Fishes, Simon Frazer University, Canada  
\*6/2011 Modern Achievements in Population, Evolutionary and Ecological Genetics (MAPEEG), International Symposium, Vladivostok, Russia  
\*9/2011 Congresso Nacional de Genetica, Cholula, Mexico  
\*1/2012 Society for Integrative and Comparative Biology, Annual Meeting, Charleston, South Carolina  
11/2014 Southern California Evolutionary Genetics & Genomics Meeting, Los Angeles, CA  
10/2015 Southern California Evolutionary Genetics & Genomics Meeting, Los Angeles, CA  
1/2016 Ontario Comparative Physiology and Biochemistry Meeting, Rice Lake, Canada  
6/2017 Society for the Study of Evolution, Annual Meeting, Portland, Oregon

#### **PRESS COVERAGE:**

- Smaltång – nygammal art i Östersjön. *Biodiverse* **2**: 8-9 (2006)
- A Fishy Tale of diversity. Editors' Choice. *Science* **312**: 1281 (2 June 2006).
- Sex and the Single Killifish. NewsFocus. *Science* **313**: 1381 (8 September 2006).
- Evolution: Vertebrate Reproductive Strategies Get Mixed up. *Current Biology* **16**: R876-R879 (2006).
- A Powerhouse Conversion. Editors' Choice. *Science* **316**: 1255 (1 June 2007).
- Havets genetik viktig i hållbar förvaltning. *Havet* (2007).
- Jungfrufödsel – ett smart sätt att få egna ungar. *Dagens Nyheter* (18 December 2016).

#### **PROFESSIONAL AFFILIATIONS:**

- Society for Integrative and Comparative Biology
- The Systematics Association (UK)

#### **GRANTS & AWARDS:**

- 1987 Winner of the All-Union Student's Conference (Genetics Section), Novosibirsk.
- 1992 Recipient of research support from the Youth Foundation, Novosibirsk.
- 1992, 1993 Scholarships from the International Science Foundation, New York.
- 1992, 1993, 1995 Scholarships from the Royal Swedish Academy of Sciences.
- 1993 Scholarship from the Swedish Institute.
- 2004 "Origin and genetic structure of the dwarf morph populations of *Fucus vesiculosus* in the Gulf of Bothnian", Small research grant from University of Umeå, Umeå Marine Sciences Centre (SEK 50,000) – Awarded, but declined due to relocation.
- 2010 Faculty Career Development Award (\$1,000).
- 2017, 2019 ABRCMS conference judge travel award.

#### **MISCELLANEOUS SERVICES:**

- 1999 American Association for the Advancement of Science (AAAS) Annual Meeting, Anaheim, California: Committee for judging best student poster.
- 2000-2001 University of California Leadership Excellence through Advanced Degrees Program (UC LEADS). Mentor.
- 1997-2002 Minority Science Program (MSP), University of California at Irvine. Research Mentor.
- 2012-present Minority Science Program (MSP), University of California at Irvine. Instructor, Research Mentor.
- 2017, 2019 Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ & Anaheim, CA: Judge for student presentations.

#### EDUCATIONAL ACTIVITIES:

- Participated in various Outreach, Research Training and Minority Science Programs (MSP) at University of California, Irvine.
- Translator of the Russian edition of "Genetic Data Analysis" by B.C. Weir, Sinauer, Sunderland, MA, 1990, published by "Mir" Publisher, 1995.

#### STUDENT INVESTMENT & BROADENING PARTICIPATION:

- During last seven years trained over 160 undergraduate students through University of California Leadership Excellence through Advanced Degrees Program (UC LEADS); Minority Science Programs (MSP) of the University of California at Irvine, preparing them for careers in BioMedical research.
- During 2012-2020 mentored individual research projects of 51 UR undergraduate students. These research projects were presented at national conferences such as AAAS, ABRCMS, and SACNAS meetings. Many of these presentations won top awards in the student competitions. Specifically, 23 students got awards at the poster competitions in **Annual Biomedical Research Conferences for Minority Students** (ABRCMS) in 2012-2020 in *Developmental Biology and Genetics* (Arianna Gomez, Michael Emami, Josselyn Pena, Janerys Munoz, Emily Bryant, Megan Garcia), *Microbiology* (Ernesto Sosa, George Chavez, Cezar Borba), *Public Health* (Marisol Zuniga, Cynthia Rodriguez, Evelyn Zarate-Sanchez), *Molecular Biology* (Priscilla San Juan, Carlos Vasquez, Felix Argueta), *Physiology* (Ryan Pena, Christian Checkcinco), *Cell Biology* (Jack Oliver, JoAnne Villagrana), *Computational Biology* (Ambrocio Sanchez, Luis Escalante), *Systems Biology* (Karina Barragan), *Evolution and Developmental Biology* (Sarah Singh). Six students got awards at the **American Association for the Advancement of Science Annual Meetings** (Mariela Macias - Washington, DC, 2000; Rebeca Flores – Chicago, IL, 2014; Hector Sanchez – San Jose, CA, 2015; Cynthia Rodriguez – Washington, DC, 2016; Emily Bryant and Oluwaseun Adegbite – Austin, TX, 2017). Two students were awarded at **SACNAS** national conference (Michael Emami [2014/Microbiology], Priscilla San Juan [2015/Evolution & Ecology]). Alyza Roman got **Sigma XI** award [2020/Environmental Studies].
- Hosted international guest researchers from Russia (Evgenia Bondar', 2012 - 5 months), Poland (Magdalena Gonciarz, 2013 – 1.5 month), Brazil (Sergio Lima, 2015 – 8 months).
- Trained and supervised graduate students and postdocs in Prof. John C. Avise lab in University of Georgia and University of California (during 2004-2015).

### PEER-REVIEWED PUBLICATIONS:

- Berbel-Filho W.M., [Tatarenkov A.](#), Pacheco G., Espírito-Santo H.M.V., Lira M.G., Garcia de Leaniz C., Avise J.C., Lima S.M.Q., Rodríguez-López C.M., Consuegra S. 2021. Against the odds: hybrid zones between Mangrove Killifish species with different mating systems. *Genes* **12**: 1486.
- Lira M.G.S., Berbel-Filho W.M., Espírito-Santo H.M.V., [Tatarenkov A.](#), Avise J.C., Garcia de Leaniz C., Consuegra S., Lima S.M.Q. 2021. Filling the gaps: phylogeography of the self-fertilizing *Kryptolebias* species (Cyprinodontiformes: Rivulidae) along South American mangroves. *Journal of Fish Biology* **99**: 644-655.
- Lima S.M.Q., Berbel W.M., Vilasboa A., Lazoski C., Volpi T.D., Lazzarotto H., Russo C.A.M., [Tatarenkov A.](#), Avise J.C., Sole-Cava A.N.M. 2021. Rio de Janeiro and other palaeodrainages evidenced by the genetic structure of an Atlantic Forest catfish. *Journal of Biogeography* **48**: 1475-1488.
- [Tatarenkov A.](#), Earley R.L., Taylor D.S., Davis W.P., Avise J.C. 2021. Extensive hybridization and past introgression between divergent lineages in a quasi-clonal hermaphroditic fish: ramifications for species concepts and taxonomy. *Journal of Evolutionary Biology (Special Issue: Speciation in Marine Environments)* **34**: 49-59.
- Berbel-Filho W.M., [Tatarenkov A.](#), Espírito-Santo H.M.V., Lira M.G., Garcia de Leaniz C., Lima S.M.Q., Consuegra S. 2020. More than meets the eye: syntopic and morphologically similar mangrove killifish species show different mating systems and patterns of genetic structure along the Brazilian coast. *Heredity* **125**: 340-352.
- Gresham J.D., Marson K.M., [Tatarenkov A.](#), Earley R.L. 2020. Sex change as a survival strategy. *Evolutionary Ecology* **34**: 27-40.
- Wilson K.M., [Tatarenkov A.](#), Burley N.T. 2019. Early life and transgenerational stressors impact secondary sexual traits and fitness. *Behavioral Ecology* **30**: 830-842.
- [Tatarenkov A.](#), Earley R.L., Taylor D.S., Davis W.P., Avise J.C. 2018. Natural hybridization between divergent lineages in a selfing hermaphroditic fish. *Biology Letters* **14**: 20180118.
- Furness A.I., Reznick D.N., [Tatarenkov A.](#), Avise J.C. 2018. The evolution of diapause in *Rivulus (Laimosemion)*. *Zoological Journal of the Linnean Society* **184**: 773–790.
- Lins L.S.F., Trojahn S., Sockell A., Yee M.C., [Tatarenkov A.](#), Bustamante C.D., Earley R.L., Kelley J.L. 2018. Whole-genome sequencing reveals the extent of heterozygosity in a preferentially self-fertilizing hermaphroditic vertebrate. *Genome* **61**: 241-247.
- Turko A.J., [Tatarenkov A.](#), Currie S., Earley R.L., Platek A., Taylor D.S., Wright P.A. 2018. Emersion behaviour underlies variation in gill morphology and aquatic respiratory function in the amphibious fish *Kryptolebias marmoratus*. *Journal of Experimental Biology* **221**: jeb168039.
- Lima S.M.Q., Araújo T.F.P., Berbel-Filho W.M., Lazzarotto H., [Tatarenkov A.](#), Avise J.C. 2017. Headwaters capture evidenced by paleorivers reconstruction and genetic structure of the armored catfish *Pareiorhaphis garbei* in the Serra do Mar mountains, southeastern Brazil. *Frontiers in Genetics* **8**: 199.
- [Tatarenkov A.](#), Lima S.M.Q., Earley R.L., Berbel-Filho W.M., Vermeulen F.B.M., Taylor D.S., Marson K., Turner B.J., Avise J.C. 2017. Deep and concordant subdivisions in the self-fertilizing mangrove killifishes (*Kryptolebias*) revealed by nuclear and mtDNA markers. *Biological Journal of the Linnean Society* **122**: 558-578.
- [Tatarenkov A.](#), Mesak F., Avise J.C. 2017. Complete mitochondrial genome of a self-fertilizing fish *Kryptolebias marmoratus* (Cyprinodontiformes, Rivulidae) from Florida. *Mitochondrial DNA Part A* **28**: 244-245.
- Kelley J.L., Yee M.C., Brown A.P., Richardson R.R., [Tatarenkov A.](#) et al. 2016. The genome of the self-fertilizing mangrove rivulus fish, *Kryptolebias marmoratus*: a model for studying phenotypic plasticity and adaptations to extreme environments. *Genome Biology and Evolution* **8**: 2145-2154.

- Redelings B.D., Kumagai S., Tatarenkov A., Wang L., Sakai A.K., Weller S.G., Culley T.M., Avise J.C., Uyenoyama M.K. 2015. A Bayesian approach to inferring rates of selfing and locus-specific mutation. *Genetics* **201**: 1171-1188.
- Mesak F., Tatarenkov A., Avise J.C. 2015. Transcriptomics of diapause in an isogenic self-fertilizing vertebrate. *BMC Genomics* **16**: 989.
- Furness A., Tatarenkov A., Avise J.C. 2015. A genetic test for whether pairs of hermaphrodites can cross-fertilize in a selfing killifish. *Journal of Heredity* **106**: 749-752.
- Avise J.C., Tatarenkov A. 2015. Population genetics and evolution of the mangrove rivulus *Kryptolebias marmoratus*, the world's only self-fertilizing hermaphroditic vertebrate. *Journal of Fish Biology* **87**: 519-538.
- Tatarenkov A., Earley R.L., Perlman B.M., Taylor D.S., Turner B.J., Avise J.C. 2015. Genetic subdivision and variation in selfing rates among Central American populations of the mangrove rivulus, *Kryptolebias marmoratus*. *Journal of Heredity* **106**: 276-284.
- Mesak F., Tatarenkov A., Earley R.L., Avise J.C. 2014. Hundreds of SNPs vs. dozens of SSRs: which dataset better characterizes natural clonal lineage in a self-fertilizing fish? *Frontiers in Ecology and Evolution* **2**: 74.
- Liu J.X., Tatarenkov A., O'Rear T.A., Moyle P.B., Avise J.C. 2013. Molecular evidence for multiple paternity in a population of the viviparous tule perch *Hysteroecarpus traski*. *Journal of Heredity* **104**: 217-222.
- Avise J.C., Tatarenkov A. 2012. Allard's argument versus Baker's contention for the adaptive significance of selfing in a hermaphroditic fish. *Proc. Natl. Acad. Sci. U. S. A.* **109**: 18862-18867.
- Tatarenkov A., Earley R.L., Taylor D.S., Avise J.C. 2012. Microevolutionary distribution of isogenicity in a self-fertilizing fish (*Kryptolebias marmoratus*) in the Florida Keys. *Integrative Comparative Biology* **52**: 743-752.
- Tatarenkov A., Lima S.M.Q., Avise J.C. 2011. Extreme homogeneity and low genetic diversity in *Kryptolebias ocellatus* from southeastern Brazil suggest a recent foundation for this androdioecious fish population. *Journal of Fish Biology* **79**: 2095-2105.
- Liu J.X., Tatarenkov A., Beacham T.D., Gorbachev V., Wildes S., Avise J.C. 2011. Effects of Pleistocene climatic fluctuations on the phylogeographic and demographic histories of Pacific herring (*Clupea pallasii*). *Molecular Ecology* **20**: 3879-3893.
- Avise J.C., Tatarenkov A., Liu J.X. 2011. Multiple mating and clutch size in invertebrate brooders versus pregnant vertebrates. *Proc. Natl. Acad. Sci. U. S. A.* **108**, 11512-11517.
- Tatarenkov A., Ring B.C., Elder J.F., Bechler D.L., Avise J.C. 2010. Genetic composition of laboratory stocks of the self-fertilizing fish *Kryptolebias marmoratus*: A valuable resource for experimental research. *PLoS ONE* **5(9)**: e12863.
- Tatarenkov A., Healey C.I.M., Avise J.C. 2010. Microgeographic population structure of green swordtail fish: genetic differentiation despite abundant migration. *Molecular Ecology* **19**: 257-268.
- Tatarenkov A., Lima S.M.Q., Taylor D.S., Avise J.C. 2009. Long-term retention of self-fertilization in a fish clade. *Proc. Natl. Acad. Sci. U. S. A.* **106**: 14456-14459.
- Tatarenkov A., Healey C.I.M., Grether G.F., Avise J.C. 2008. Pronounced reproductive skew in a natural population of green swordtails, *Xiphophorus helleri*. *Molecular Ecology* **17**: 4522-4534.
- Mäkinen T., Panova M., Johannesson K., Tatarenkov A., Appelqvist C., André C. 2008. Genetic differentiation on multiple spatial scales in an ecotype-forming marine snail with limited dispersal: *Littorina saxatilis*. *Biological Journal of the Linnean Society* **94**: 31-40.
- Tatarenkov A., Avise J.C. 2007. Rapid concerted evolution in animal mitochondrial DNA. *Proceedings of the Royal Society B: Biological Sciences* **274**: 1795-1798.<sup>¶</sup>
- <sup>¶</sup> This paper is featured in Editors' Choice of Science Magazine. 2007. A Powerhouse Conversion. *Science* **316**: 1255.

- Tatarenkov A., Gao H., Mackiewicz M., Taylor D.S., Turner B.J., Avise J.C. 2007. Strong population structure despite evidence of recent migration in a selfing hermaphroditic vertebrate, the Mangrove Killifish (*Kryptolebias marmoratus*). *Molecular Ecology* **16**: 2701-2711.
- Tatarenkov A., Jönsson R.B., Kautsky L. Johannesson K. 2007. Genetic structure in the marine alga *Fucus vesiculosus* (Phaeophyceae) over spatial scales from 10 m to 800 km. *Journal of Phycology* **43**: 675-685.
- Tatarenkov A., Ayala F.J. 2007. Nucleotide variation at the Dopa decarboxylase (*Ddc*) gene in natural populations of *Drosophila melanogaster*. *Journal of Genetics* **86**: 125-137.
- Tatarenkov A., Barreto F., Winkelman D.L., Avise J.C. 2006. Genetic monogamy in the Channel Catfish, *Ictalurus punctatus*, a species with uniparental nest guarding. *Copeia* **4**: 735-741.
- Mackiewicz\* M., Tatarenkov\* A., Turner B.J., Taylor D.S., Avise J.C. 2006. Extensive outcrossing and androdioecy in a vertebrate species that otherwise reproduces as a self-fertilizing hermaphrodite. *Proc. Natl. Acad. Sci. U. S. A.* **103**: 9924-9928.‡
- Mackiewicz\* M., Tatarenkov\* A., Turner B.J., Avise J.C. 2006. A mixed-mating strategy in a hermaphroditic vertebrate. *Proceedings of the Royal Society B: Biological Sciences* **273**: 2449–2452.†,‡
- Mackiewicz M., Tatarenkov A., Perry A., Martin J.R., Elder J.F, Bechler D.L., Avise J.C. 2006. Microsatellite documentation of outcrossing between inbred laboratory strains of the self-fertilizing mangrove killifish (*Kryptolebias marmoratus*). *Journal of Heredity* **97**: 508-513. ‡
- \* These authors contributed equally to this work.
- † This paper is featured in Editors' Choice of Science Magazine. 2006. A Fishy Tale of diversity. *Science* **312**: 1281.
- ‡ These papers are featured in NewsFocus of Science Magazine. 2006. Sex and the Single Killifish. *Science* **313**: 1381.
- Žurovcová M., Tatarenkov A., Berc L. 2006. Differences in the pattern of evolution in six physically linked genes of *Drosophila melanogaster*. *Gene* **381**: 24-33.
- Tatarenkov A., Bergström L., Jönsson R.B., Serrão E.A., Kautsky L., Johannesson K. 2005. Intriguing asexual life in marginal populations of the brown seaweed, *Fucus vesiculosus*. *Molecular Ecology* **14**: 647-651.
- Bergström L., Tatarenkov A., Johannesson K., Berger R., Kautsky L. 2005. Genetic and morphological identification of *Fucus radicans* sp. nov. (Fucales, Phaeophyceae) in the brackish Baltic Sea. *Journal of Phycology* **41**: 1025-1038.
- Sáez A.G., Tatarenkov A., Barrio E., Becerra N.H., Ayala F.J. 2003. Patterns of DNA sequence polymorphism at *Sod* vicinities in *Drosophila melanogaster*: unraveling the footprint of a recent selective sweep. *Proc. Natl. Acad. Sci. U. S. A.* **100**: 1793-1798.
- Tatarenkov A., Ayala F.J. 2001. Phylogenetic relationships among species groups of the *virilis-repleta* radiation of *Drosophila*. *Molecular Phylogenetics and Evolution* **21**: 327-331.
- Tatarenkov A., Žurovcová M., Ayala F.J. 2001. *Ddc* and *amd* sequences resolve phylogenetic relationships of *Drosophila*. *Molecular Phylogenetics and Evolution* **20**: 321-325.
- Tatarenkov A., Kwiatowski J., Skarecky D., Barrio E., Ayala F.J. 1999. On the evolution of *Dopa decarboxylase* (*Ddc*) and *Drosophila* systematics. *Journal of Molecular Evolution* **48**: 445-462.
- Tatarenkov A., Sáez A.G., Ayala F.J. 1999. A compact gene cluster in *Drosophila*: the unrelated *Cs* gene is compressed between duplicated *amd* and *Ddc*. *Gene* **231**: 111-120.
- Tatarenkov A., Johannesson K. 1999. Micro- and macrogeographic allozyme variation in *Littorina fabalis*; do sheltered and exposed forms hybridize? *Biological Journal of the Linnean Society* **67**: 199-212.
- Tatarenkov A., Johannesson K. 1998. Evidence of a reproductive barrier between two forms of the marine periwinkle *Littorina fabalis* (Gastropoda). *Biological Journal of the Linnean Society* **63**: 349-365.

- Johannesson K., Tatarenkov A. 1997. Allozyme variation in a snail (*Littorina saxatilis*) - deconfounding the effects of microhabitat and gene flow. *Evolution* **51**: 402-409.
- Tatarenkov A.N. 1995. Genetic heterogeneity in populations of *Littorina brevicula* (Philippi) (Mollusca: Gastropoda) in the northern part of Peter the Great Bay (Sea of Japan). *Veliger* **38**: 85-91.
- Tatarenkov A.N. 1995. Genetic divergence between sibling species *Littorina mariae* Sacchi & Rastelli and *L. obtusata* (L.) (Mollusca: Gastropoda) from the White Sea. *Ophelia* **40**: 207-218.
- Tatarenkov A., Johannesson K. 1994. Habitat related allozyme variation on a microgeographic scale in the marine snail *Littorina mariae* (Prosobranchia: Littorinacea). *Biological Journal of the Linnean Society* **53**: 105-125.
- Zaslavskaya N.I., Sergievsky S.O., Tatarenkov A.N. 1992. Allozyme similarity of Atlantic and Pacific species of *Littorina* (Gastropoda: Littorinidae). *Journal of Molluscan Studies* **58**: 377-384.
- Tatarenkov A.N. 1992. Allozyme variation in *Littorina brevicula* (Philippi) from Peter the Great Bay (Sea of Japan) In: Eds. Grahame J., Mill P.J., Reid D.G. *Proc. 3rd Int. Symp. Littorinid Biol.* Malacol. Soc. Lond., pp. 25-30.
- Pudovkin A.I., Zaykin D.V. & Tatarenkov A.N. 1996. DBOOT computer software for calculation of Nei's genetic distance and genetic identity and their bootstrapped confidence intervals. *Genetika* **32**: 888-890 (In Russian and English).
- Tatarenkov A.N. 1995. Genetic differentiation of settlements of *Littorina brevicula* (Mollusca: Gastropoda) in Peter the Great Bay (Sea of Japan). *Genetika* **31**: 441-446 (In Russian and English).
- Tatarenkov A.N. 1993. Genetic comparison of sibling species *Littorina mariae* Sacchi & Rastelli and *L. obtusata* (L.) (Mollusca: Gastropoda) from the White Sea. *Genetika* **29**: 1312-1319 (In Russian).
- Zaslavskaya N.I., Sergievsky S.O., Tatarenkov A.N. 1992. Genetic biochemical comparison of Atlantic and Pacific species of *Littorina* (Gastropoda: Littorinidae). *Genetika* **28**: 89-98 (In Russian).

REPRESENTATIVE POSTER PRESENTATIONS BY UNDERGRADUATE STUDENTS  
(last seven years shown; † indicates student author; \* indicates award):

- Alyza Roman<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) First report of an ST26 IncI1 plasmid to carry the  $\beta$ -lactam resistance gene *bla*CMY-2. Presented at 2020 Sigma-Xi Annual Meeting and Student Research Conference. Virtual. \*Award in *Environmental Sciences*.
- Felix A. Argueta<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) Plasmid found in a wild bird from New York City carries virulence and antibiotic resistance genes. Oral presentation. Presented at 2020 Annual Biomedical Research Conference for Minority Students (ABRCMS), Virtual conference. \*Award in *Molecular Biology and Biochemistry*.
- Luis Escalante<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) Multidrug resistant plasmid containing a class 1 integron found in an environmental *Citrobacter freundii*. Oral presentation. Presented at 2020 Annual Biomedical Research Conference for Minority Students (ABRCMS), Virtual conference. \*Award in *Computational and Systems Biology*.
- Megan Garcia<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) Novel multidrug resistance region formed by multiple gene mobilizations on an IncR plasmid. E-poster. Presented at 2020 Annual Biomedical Research Conference for Minority Students (ABRCMS), Virtual conference. \*Award in *Developmental Biology and Genetics*.
- Abril Islas<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) Multidrug environmental *Escherichia fergusonii* with a *sul3*-associated class 1 integron. E-poster. Presented at 2020 Annual Biomedical Research Conference for Minority Students (ABRCMS), Virtual conference.
- Sheila Gonzalez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) First report of trimethoprim resistance *dfrA8* gene in environmental isolate of *Klebsiella variicola*. E-poster. Presented at 2020 SACNAS National Virtual Conference.



- Stephanie Harchencko<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) Antibiotic resistant gene *blaCARB-2* is in a multidrug resistance region in an environmental *Escherichia coli*. E-poster. Presented at 2020 SACNAS National Virtual Conference.
- Katie Ann Huy<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) Multidrug resistance island on environmentally isolated *Escherichia coli* ST117. E-poster. Presented at 2020 SACNAS National Virtual Conference.
- Iris Molina<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) First report of plasmid-borne *dfrA14* trimethoprim resistance gene in *Klebsiella oxytoca*. E-poster. Presented at 2020 SACNAS National Virtual Conference.
- Camryn Zunita<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2020) A novel region of antibiotic resistance genes in aquatic *Escherichia coli* isolate confers resistance to six antibiotic classes. E-poster. Presented at 2020 SACNAS National Virtual Conference.
- K. Barragan<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) Mobilization of antibiotic resistance genes on a plasmid of environmental bacterium *Citrobacter freundii*. Poster. Presented at 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, Indiana. \*Award in *Systems Biology*.
- C. Checkcinco<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) Mobile class 1 integron containing antibiotic resistant genes is newly described in environmental *Enterobacter kobei*. Poster. Presented at 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, Indiana. \*Award in *Physiology*.
- J. Galicia<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) First record of trimethoprim resistance *drfA21* gene in *Kluyvera* genus. Poster. Presented at 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, Indiana.
- S. Singh<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) Complete sequence of an *Escherichia coli* *IncF* plasmid showing mobilization of *blaCMY-2* gene by *IS1294* transposase. Poster. Presented at 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, Indiana. \*Award in *Evolution and Developmental Biology*.
- J. Villagrana<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) *Escherichia coli* from natural environment carries novel multidrug-resistant region formed by transposition. Poster. Presented at 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, Indiana. \*Award in *Cell Biology*.
- E. Zarate-Sanchez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) New multidrug-resistant region in *Klebsiella oxytoca* from the natural environment. Poster. Presented at 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS), Indianapolis, Indiana. \*Award in *Public Health*.
- O. S. Adegbite<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) Widespread *blaTEM-1B* locus within flexible multidrug resistance region in an environmental *Escherichia coli*. E-poster. Presented at 2018 AAAS Annual Meeting, Austin, Texas. \*Honorable mention in category *Cellular and Molecular Biology*.
- E. E. Bryant<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2018) A multiresistance region including extended spectrum  $\beta$ -lactamase antibiotic resistance genes in an *Escherichia coli* collected from an aquatic environment. E-poster. Presented at 2018 AAAS Annual Meeting, Austin, Texas. \*Honorable mention in category *Developmental Biology, Physiology and Immunology*.
- O. S. Adegbite<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2017) Mosaic multidrug resistant region on plasmid from environmental *Escherichia coli*. Poster. Presented at 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, Arizona.
- E. E. Bryant<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2017) Environmental *Escherichia coli* carries extended spectrum beta-lactamase antibiotic resistance genes. Poster. Presented at 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, Arizona. \*Award in *Physiology*.
- A. Sanchez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2017) Discovery and evolutionary trajectory of a multidrug resistant, *blaCTX-M-14* harboring plasmid in *Escherichia coli* from environment. Poster. Presented at 2017 Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, Arizona. \*Award in *Computational and Systems Biology*.
- C. R. Borba<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) Twelve antibiotic resistance genes found in *Raoultella ornithinolytica*. Poster. Presented at 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, Florida. \*Award in *Microbiology*.
- J. Munoz<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) Conjugative plasmid from environmental *E. coli* carries a cassette-independent trimethoprim-resistant *dfrA* gene. Poster. Presented at 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, Florida. \*Award in *Genetics*.

- E. Medina<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) The genetic environment of extended spectrum  $\beta$ -lactamase *bla*CTX-M-3 in the plasmid of a *Klebsiella pneumoniae*. Poster. Presented at 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, Florida.
- J. A. Oliver<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) Genomic characterization of a class II integron from an environmental *Escherichia coli*. Poster. Presented at 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, Florida. \*Award in Cell Biology.
- O. S. Ortega<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) Antibiotic resistance and virulence genes in extended spectrum beta-lactamase producing environmental *Escherichia coli* isolate. Poster. Presented at 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, Florida.
- P. L. I. Santibanez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) Role of mobile genetic elements in disseminating resistance to chloramphenicol in environmental *Escherichia coli*. Poster. Presented at 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, Florida.
- C. A. Vasquez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) The beta-lactamase *DHA-1* gene found in a novel *IS26* transposase carried by an *incF* incompatibility group plasmid in an environmental *Klebsiella pneumoniae*. Poster. Presented at 2016 Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, Florida. \*Award in Bioinformatics.
- C.I. Rodriguez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) Multidrug resistant *Klebsiella pneumoniae* sequence type 258 producing KPC-2 carbapenemase. Poster. Presented at 2016 AAAS Annual Meeting, Washington, D.C. \*Honorable mention in category *Medicine and Public Health*.
- A. Thind<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2016) Novel *IncX5* plasmid in environmental *Enterobacter asburiae*. Poster. Presented at 2016 AAAS Annual Meeting, Washington, D.C.
- R. Pena<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Chloramphenicol resistance in environmental *Escherichia coli*. Poster. Presented at 2015 Southern California Conference on Undergraduate Research (SCCUR), Harvey Mudd College, Claremont, California.
- I. Abaeze<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Pathogenic *pap* genes in *Escherichia coli* collected from aquatic environments. Poster. Presented at 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, Washington.
- F. Ali<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Virulence genes encoding iron uptake mechanism in *Escherichia coli* from aquatic environments. Poster. Presented at 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, Washington.
- G. Chavez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) The prevalence of *fimH* in *Escherichia coli* isolated from the environment. Poster. Presented at 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, Washington. \*Award in Microbiology.
- R. Pena<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Chloramphenicol resistance in environmental *Escherichia coli*. Poster. Presented at 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, Washington. \*Award in Physiology.
- C.I. Rodriguez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Antibiotic resistant genes in carbapenemase producing *Klebsiella pneumoniae*. Poster. Presented at 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, Washington. \*Award in Public Health.
- A. Thind<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) New conjugative plasmid in environmental *Enterobacter asburiae* is similar to carbapenemase producing *Klebsiella pneumoniae*. Poster. Presented at 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, Washington.
- P. San Juan<sup>†</sup>, L. Mota-Bravo, A. Tatarenkov (2015) Antibiotic-resistant genes in integrons from environmental Enterobacteriaceae. Poster. Presented at 2015 SACNAS national conference, Washington, DC. \*Award in Evolution/Ecology.
- J. K. Peña<sup>†</sup>, L. Mota-Bravo, A. Tatarenkov (2015) Genetic characterization of integrons from environmental *Aeromonas* bacteria. Poster. Presented at 2015 SACNAS national conference, Washington, DC.
- H. F. Sanchez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Novel *ampC* beta-lactamase genes from *Morganella morganii*. Poster. Presented at 2015 AAAS Annual Meeting, San Jose, California. \*Honorable mention in category *Environment and Ecology*.
- C.A. Herrera<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Beta-lactamase genes in *Escherichia coli* from aquatic environments. Poster. Presented at 2015 AAAS Annual Meeting, San Jose, California.

- J. K. Peña<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Integrons from *Aeromonas* bacteria collected from streams and beaches. Poster. Presented at 2015 AAAS Annual Meeting, San Jose, California.
- V.A. Resendez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Genes conferring resistance to beta-lactams in *Pseudomonas* spp. from natural environments. Poster. Presented at 2015 AAAS Annual Meeting, San Jose, California.
- P. San Juan<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2015) Integrons in Enterobacteriaceae from surface waters. Poster. Presented at 2015 AAAS Annual Meeting, San Jose, California.
- J.P. Sedaros<sup>†</sup>, L. Mota-Bravo, A. Tatarenkov (2015) Genes conferring resistance to aminoglycosides in *Aeromonas* from natural habitats. Poster. Presented at 2015 AAAS Annual Meeting, San Jose, California.
- P. San Juan<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Characterization of integrons present in environmental Enterobacteriaceae isolates. Poster. Presented at 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas. \*Award in Molecular and Computational Biology.
- J. K. Peña<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Characterization of integrons from *Aeromonas* bacteria collected from streams and beaches. Poster. Presented at 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas. \*Award in Developmental Biology and Genetics.
- J.P. Sedaros<sup>†</sup>, L. Mota-Bravo, A. Tatarenkov (2014) Aminoglycoside resistant genes in *Aeromonas* from natural habitats in Southern California. Poster. Presented at 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas.
- V.A. Resendez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Characterization of Beta-lactamases in *Pseudomonas* species obtained from natural environments. Poster. Presented at 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas.
- A.R. Bechay<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Chloramphenicol resistance genes in environmental *Escherichia coli*. Poster. Presented at 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas.
- H.F. Sanchez<sup>†</sup>, L. Mota-Bravo, A. Tatarenkov (2014) Novel *ampC* Beta-lactamase gene from *Morganella morganii*. Poster. Presented at 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas.
- C.A. Herrera<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) The identification and frequency of Beta-lactamase genes in *Escherichia coli* from aquatic environments. Poster. Presented at 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Antonio, Texas.
- M. Emami<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Analysis of antibiotic resistance genes, *blaZ* and *mecA*, in non-clinical samples of *Staphylococcus*. Poster. Presented at 2014 SACNAS national conference, Los Angeles, California. \*Award in Microbiology.
- M. Zuniga<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) MLS<sub>B</sub> antibiotic resistant genes encoding for antibiotic-inactivating enzymes are found in environmental *Staphylococcus*. Poster. Presented at 2014 SACNAS national conference, Los Angeles, California.
- R. Flores<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Pattern of resistance and variability of tetracycline antibiotic resistance genes in *Staphylococcus*. Poster. Presented at 2014 AAAS Annual Meeting, Chicago, Illinois. \*Winner in category *Environment and Ecology*.
- M. Emami<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Patterns of variation of antibiotic resistance Genes, *blaZ* and *mecA*, in non-clinical samples of *Staphylococcus*. Poster. Presented at 2014 AAAS Annual Meeting, Chicago, Illinois.
- M. Gomez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Prevalence and genetic variation of *erm* genes in *Staphylococci* isolates of human and environmental origin. Poster. Presented at 2014 AAAS Annual Meeting, Chicago, Illinois.
- A. Lopez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Multiple antibiotic-resistant integrons found in environmental bacteria. Poster. Presented at 2014 AAAS Annual Meeting, Chicago, Illinois.
- J. Magallon<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Characterization of antibiotic resistance genes encoding ATP-binding transporters in environmental samples *Staphylococcus* spp. Poster. Presented at 2014 AAAS Annual Meeting, Chicago, Illinois.
- M. Zuniga<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2014) Antibiotic resistance genes encoding for MLS<sub>B</sub>-inactivating enzymes in *Staphylococcus* spp. are found in beaches and streams. Poster. Presented at 2014 AAAS Annual Meeting, Chicago, Illinois.

- M. Emami<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2013) Comparative analysis of antibiotic resistance genes, *blaZ* and *mecA*, in environmental and human samples of *Staphylococcus* spp. Poster. Presented at 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS), Nashville, Tennessee. \*Award in Developmental Biology and Genetics.
- M. Gomez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2013) Detection, characterization, and genetic variation of *erm* genes in environmental *Staphylococcus*. Poster. Presented at 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS), Nashville, Tennessee.
- A. Lopez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2013) Integron composition and distribution among environmental Gram-negative bacteria. Poster. Presented at 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS), Nashville, Tennessee.
- J. Magallon<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2013) Frequency, variation, and distribution of ATP-binding transporter genes conferring antibiotic resistance to environmental *Staphylococcus* spp. Poster. Presented at 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS), Nashville, Tennessee.
- M. Zuniga<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2013) Evolution, distribution, and variation of macrolide, lincosamide, and streptogramin<sub>b</sub> antibiotic resistance genes encoding for antibiotic-inactivating enzymes in *Staphylococcus*. Poster. Presented at 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS), Nashville, Tennessee. \*Award in Social and Behavioral Sciences and Public Health.
- E. Raimundo<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2013) Study of variation and evolution of *erm* genes conferring resistance to erythromycin in *Staphylococcus*. Poster. Presented at 2013 AAAS Annual Meeting, Boston, MA.
- J. A. Ayala Salazar<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2013) Frequencies and characterizations of  $\beta$ -Lactamase-encoding genes found in free-living *E. coli*. Poster. Presented at 2013 AAAS Annual Meeting, Boston, MA.
- A. Gomez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2012) High genetic variation in *ampC* antibiotic resistance gene in environmental samples of *E. coli* and its implications. Poster. Presented at 2012 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Jose, CA. \*Award in Developmental Biology & Genetics.
- E. Raimundo<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2012) Distribution, variation and evolution of antibiotic resistance *erm* genes in *Staphylococcus*. Poster. Presented at 2012 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Jose, CA.
- N. Sosa<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2012) Variability and prevalence of integrons that confer antibiotic resistance to environmental *E. coli*. Poster. Presented at 2012 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Jose, CA. \*Award in Microbiology.
- J. A. Ayala Salazar<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2012) Incidence, variation, and phylogenetic relationships of  $\beta$ -lactam resistance genes from environmental populations of *Escherichia coli*. Poster. Presented at 2012 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Jose, CA.
- P. Hernandez<sup>†</sup>, A. Tatarenkov, L. Mota-Bravo (2012) Frequency of tetracycline resistance in *Escherichia coli* isolated in Southern California and phylogenetic relationship amongst tetracycline resistance genes. Oral presentation. Presented at 2012 Annual Biomedical Research Conference for Minority Students (ABRCMS), San Jose, CA.

## PROFESSIONAL DEVELOPMENT:

- Professional Development Sessions at ABRCMS Meeting (Phoenix, AZ): 11/2017
- Entering Mentoring: Research Mentor Training for Faculty Working with Undergraduates
  - Making the Most of Your Mentor-Mentee Relationships
  - Be the CURE: Leveraging the Classroom for Undergraduate Research
  - Advice for the Advisors: Helping Your Students Become Successful Ph.D. Applicants
  - Presenting Your Research (Doesn't Have to Be a Nightmare for You or Your Audience)
  - This is Your Brain on STEM: Making the Case for Careers in Science, Technology, Engineering, and Math
  - Blogging, Tweeting, and Writing to Promote Your Career and Diversify Science
- Professional Development Sessions at ABRCMS Meeting (Ahaheim, CA): 11/2019
- The GRE and Graduate admissions: Are we asking the Wrong Questions?
  - Let Harassers and Bullies Know You're NOT a Target
- University of California-Irvine Education Research Initiative Workshops:
- "PLTL: A Student-Faculty Partnership for Transforming the Learning Environment", by P. Varma-Nelson 3/2019
  - "Peer-Led Team Learning", by P. Varma-Nelson 3/2019
  - "Education Research in Context", by N. Buswell and A. Williams 5/2019
- University of California-Irvine Teaching and Learning Research Center Workshops:
- "Writing Student Learning Outcomes (SLO) Aligned to Course Assessments", by C. Faiola and M. Mahavongtrakul 9/2019
- University of California-Irvine Division of Teaching Excellence and Innovation Workshops:
- "Collaborative Learning: Strategies for effectively forming groups and implementing group assessment strategies", by A. Sutherland 10/2019
  - "Active Learning: How to flip your class successfully and cover the same material", by M. Jungueira 11/2019