Andrei A. Korostelev, Ph.D.
Professor, RNA Therapeutics Institute
University of Massachusetts Medical School
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Education

Ph.D., Chemistry and Biochemistry, Florida State University, Tallahassee, FL — 1998 - 2003
Thesis Title: "Improving the methods of macromolecular structure determination"
Advisor: Professor Michael S. Chapman

B.Sc. and M.Sc., *summa cum laude,* Chemistry, Moscow State University, Moscow, Russia — 1992 - 1997
Thesis Title: "The study of the binding sites of the penicillin acylase active center"
Advisor: Professor Vitas Svedas

Postdoctoral Research
Supervisor: Dr. Harry F. Noller
MCD Biology. University of California, Santa Cruz, CA. — 2004 - 2010
Supervisor: Dr. Michael S. Chapman
Department of Chemistry, Biochemistry Division. Florida State University, Tallahassee, FL. — 2003 - 2004

Academic Appointments

Professor, RNA Therapeutics Institute and Department of Biochemistry and Molecular Pharmacology. University of Massachusetts Medical School, Worcester, MA. — 2021 - present

Associate Professor, RNA Therapeutics Institute and Department of Biochemistry and Molecular Pharmacology. University of Massachusetts Medical School, Worcester, MA. — 2015 - 2021

Assistant Professor, RNA Therapeutics Institute and Department of Biochemistry and Molecular Pharmacology. University of Massachusetts Medical School, Worcester, MA. — 2010 - 2015

Graduate Research — 1998 - 2003
Supervisor: Dr. Michael S. Chapman
Chemistry and Biochemistry. Florida State University, Tallahassee, FL.

Research Assistant — 1999 - 2003
Supervisor: Dr. Michael S. Chapman
Chemistry and Biochemistry, Florida State University, Tallahassee, FL.

Teaching Assistant — 1998 - 1999
Chemistry and Biochemistry. Florida State University, Tallahassee, FL.

Research Assistant — 1995 - 1998
Supervisor: Professor Vitas Svedas

Department of Chemistry, Enzymology division. Moscow State University, Moscow, Russia.

Honors and Awards

2018 The RNA Society Early Career Award	2018
2018 ASBMB - Earl and Thressa Stadtman Scholar Award	2018
HHMI Investigator Program, finalist	2018
Worcester Science Foundation Award	2017
Burroughs Wellcome Fund, Investigators in the pathogenesis of infectious disease, finalist	2015
Worcester Science Foundation Award	2011
The RNA Society / Scaringe Young Scientist Award, runner-up	2010
I.V. Berezin Young Scientist Award, Moscow State University	1996 - 1997
George Soros Academic Fellowship, Moscow State University	1994 - 1995

Professional Memberships and Activities

Chair of the RNA Society Nominating Committee	2019 - 2020
Member of the RNA Society Meeting committee	2018 - 2021
Co-founder, Co-Chair of the Advisory Board member for the Massachusetts High-Resolution Cryo-EM facility at UMass Medical School.	2014 - present
Grant review panels: US National Institute of Health (NIH: “special emphasis” panels, MSFC, MSFB), US National Science Foundation (MCB), Massachusetts Life Sciences Center (MLSC), Czech Science Foundation, Wallenberg Foundation (Sweden), German Foundation (DFG), French Agence Nationale de la Recherche (ANR)	2015 - present
Reviewer of General User proposals at the Advanced Photon Source (Argonne National Laboratory).	2010 - present
Protein Society, member	2016 - present
American Society for Biochemistry and Molecular Biology, member	2014 - present
American Society of Cell Biology, member	2014 - present
RNA Society, member	2010 - present

Editorial Responsibilities

Editorial Board Member, *Biochimie* 2012 - present
Editorial Board Member, *RNA* 2018 - present
Ad hoc reviewer for: *ACS Chemical Biology, Biochimica et Biophysica Acta, Biophysical Journal, Cell, Cell reports, Crystals, eLife, EMBO Journal, Journal of Molecular Biology, Molecular Cell, Nature, Nature Structural and Molecular Biology, Nature Communications, Nucleic Acids Research, Proceedings of the National Academy of Sciences, RNA, Science, Science Advances etc.*

Publications

1. Jouravleva K, Golovenko D, Demo G, Dutcher RC, Hall TM[#], Zamore PD[#], **Korostelev AA[#]**. “Structural Basis of MicroRNA Biogenesis by Dicer-1 and Its Partner Protein Loqs-PB”. *Molecular Cell*. (2022)
2. Loveland AB, Svidritskiy E, Susorov D, Lee S, Park A, Demo G, Gao FB[#], **Korostelev AA[#]**. "Ribosome inhibition by C9ORF72-ALS/FTD-associated poly-PR and poly-GR proteins revealed by cryo-EM." *Nat. Commun*. 2022. 13: 2776.
3. **Korostelev AA.** “The Structural Dynamics of Translation”. *Annu Rev Biochem*. 2022 Feb 14. doi: 10.1146/annurev-biochem-071921-122857. Epub ahead of print. PMID: 35287473.
4. Carbone CE, Loveland AB, Gamper HB, Hou YM, Demo G[#], **Korostelev AA[#]**. “Time-resolved cryo-EM visualizes ribosomal translocation with EF-G and GTP”. *Nat. Commun.* 2021 Dec 13;12(1):7236. doi: 10.1038/s41467-021-27415-0. PubMed PMID: 34903725; PubMed Central: PMC8668904.
5. **Korostelev AA**. “Diversity and Similarity of Termination and Ribosome Rescue in Bacterial, Mitochondrial, and Cytoplasmic Translation”. *Biochemcistry (Mosc).* 2021 Sep;86(9):1107-1121. doi: 10.1134/S0006297921090066. PubMed PMID: 34565314. PubMed Central: PMC89843824.
6. Demo G, Gamper HB, Loveland AB, Masuda I, Carbone CE, Svidritskiy E, Hou YM#, **Korostelev AA[#]**. “Structural basis for +1 ribosomal frameshifting during EF-G-catalyzed translocation”. *Nat. Commun*. 2021 Jul 30;12(1):4644. doi: 10.1038/s41467-021-24911-1. PubMed PMID: 34330903; PubMed Central PMCID: PMC8324841.
7. Carbone CE, Demo G, Madireddy R, Svidritskiy E[#], **Korostelev AA[#].** “ArfB can displace mRNA to rescue stalled ribosomes”. *Nat. Commun*. (2020).
8. Susorov D, Egri S, **Korostelev AA[#]**. “Termi-Luc: a versatile assay to monitor full-protein release from ribosomes”. *RNA*. (2020).
9. Loveland AB, Demo G, **Korostelev AA[#]**. “Cryo-EM of elongating ribosome with EF-Tu•GTP elucidates tRNA proofreading”. *Nature*. 2020; Jul 1. doi.org/10.1038/s41586-020-2447-x. PubMed PMID: 32612237. NIHMSID:1583975. (2020).
10. Bao C, Loerch S, Ling C, **Korostelev AA**, Grigorieff N, Ermolenko DN. “mRNA Stem-loops Can Pause the Ribosome by Hindering A-site tRNA Binding”. *eLife*. 2020; May 19; 9: e55799. doi:10.7554/elife.55799. PubMed PMID: 32427100. (2020).
11. Hsu HL, Brown A, Loveland AB, Lotun A, Xu M, Luo L, Xu G, Li J, Ren L, Su Q, Gessler D, Wei Y, Tai P, **Korostelev AA[#]**, Gao G[#]. “Structural Characterization of a Novel Human Adeno-Associated Virus Capsid with Neurotropic Properties”. *Nat. Commun.* 2020 Jun 30. 11(1):3279. doi: 10.1038/s41467-020-17047-1. PubMed PMID: 32606306. (2020).
12. Huang S[#], Aleksashin N, Loveland AB, Klepacki D, Reier K, Kefi A, Szal T, Remme J, Jaeger L, Vázquez-Laslop N, **Korostelev AA[#]**, Mankin AS[#] . “Ribosome engineering reveals the importance of 5S rRNA autonomy for ribosome assembly”. *Nat. Commun.* 2020; 11: 2900. doi: 10.1038/s41467-020-16694-8. PubMed PMID: 32518240. (2020).
13. Svidritskiy E, Demo G, Loveland AB, Xu C, **Korostelev AA[#]**. “Extensive ribosome and RF2 rearrangements during translation termination”. *eLife*. 2019 Sep 12;8. pii: e46850. doi: 10.7554/eLife.46850. PubMed PMID: 31513010. (2019).
14. Ulirsch JC, et al, **Korostelev AA**, Do R, Sankaran VG, Gazda HT. “The Genetic Landscape of Diamond-Blackfan Anemia”. *Am J Hum Genet*. 2018 Dec 6;103(6):930-947. doi: 0.1016/j.ajhg.2018.10.027. Epub 2018 Nov 29. PubMed PMID: 30503522. (2018).
15. Svidritskiy E, Demo G, **Korostelev AA[#]**. “Mechanism of premature translation termination on a sense codon”. *J Biol Chem*. 2018 Aug 10;293(32):12472-12479. doi:10.1074/jbc.AW118.003232. Epub 2018 Jun 25. PubMed PMID: 29941456. (2018).
16. Svidritskiy E, **Korostelev AA[#]**. “Conformational Control of Translation Termination on the 70S Ribosome”. *Structure.* 2018 Jun 5;26(6):821-828.e3. doi: 10.1016/j.str.2018.04.001. Epub 2018 May 3. PubMed PMID: 29731232. (2018).

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17. Loveland AB, **Korostelev AA#**. “Structural dynamics of protein S1 on the 70S ribosome visualized by ensemble cryo-EM”. *Methods*. 2018 Mar 15;137:55-66. doi: 10.1016/j.ymeth.2017.12.004. Epub 2017 Dec 14. PubMed PMID: 29247757. (2018).
18. Svidritskiy E., **Korostelev AA#**. “Mechanism of inhibition of translation termination by blasticidin S”. *J. Mol. Biol*. 430(5):591-593. doi: 10.1016/j.jmb.2018.01.007. (2018).
19. Demo G, Rasouly A, Vasilyev N, Svetlov V, Loveland AB, Diaz-Avalos R, Grigorieff N, Nudler E#, **Korostelev AA#**. “Structure of RNA polymerase bound to ribosomal 30S subunit”. *eLife*. 6:e28560 (2017).
20. Loveland AB, Demo G, Grigorieff N, **Korostelev AA#**. “Ensemble cryo-EM elucidates the mechanism of translation fidelity”. *Nature*. 546: 113–117 (2017).
21. Koh CS, Madireddy R, Beane TJ, Zamore PD#, **Korostelev AA#**. “Small methyltransferase RlmH assembles a composite active site to methylate a ribosomal pseudouridine”. *Sci Rep*. 7(1):969 (2017).
22. Demo G, Svidritskiy E, Madireddy R, Diaz-Avalos R, Grant T, Grigorieff N#, Sousa D#, **Korostelev AA#**. “Mechanism of ribosome rescue by ArfA and RF2”. *eLife*. 6:e23687 (2017).
23. Loveland AB, Bah E, Madireddy R, Zhang Y, Brilot AF, Grigorieff N#, **Korostelev AA#**. “Ribosome•RelA structures reveal the mechanism of stringent response activation”. *eLife*. 5:e17029 (2016).
24. Svidritskiy E, Madireddy R, **Korostelev AA#**. “Structural Basis for Translation Termination on a Pseudouridylated Stop Codon”. *J Mol Biol.* 428: 2228-36. (2016).
25. Abeyrathne PD, Koh CS, Grant T, Grigorieff N#, **Korostelev AA#**. “Ensemble cryo-EM uncovers inchworm-like translocation of a viral IRES through the ribosome”. *eLife*. 5:e14874 (2016).
26. Tek A, **Korostelev AA**, Flores SC. “MMB-GUI: a fast morphing method demonstrates a possible ribosomal tRNA translocation trajectory”. *Nucleic Acids Research*. 44(1):95-105 (2016).
27. Svidritskiy E, **Korostelev AA#.** “Ribosome Structure Reveals Preservation of Active Sites in the Presence of a P-Site Wobble Mismatch”. *Structure*. 23(11):2155-61 (2015).
28. Colussi TM, Costantino DA, Zhu J, Donohue JP, **Korostelev AA**, Jaafar ZA, Plank TD, Noller HF, Kieft JS. “Initiation of translation in bacteria by a structured eukaryotic IRES RNA”. *Nature*. 519(7541):110-3 (2015).
29. Svidritskiy E, Brilot AF, Koh CS, Grigorieff N#, **Korostelev AA#**. “Structures of yeast 80S•tRNA ribosome complexes in the rotated and non-rotated conformations”. *Structure*. 22(8):1210-8 (2014).
30. **Korostelev AA#**. ”A deeper look into translation initiation”. *Cell.* Preview. 2014. **3**: 475–6.
31. Koh CS, Brilot AF, Grigorieff N#, **Korostelev AA#**. “Taura syndrome virus IRES initiates translation by binding its tRNA-mRNA-like structural element in the ribosomal decoding center”. *Proc Natl Acad Sci USA*. 111(25):9139–9144 (2014).
32. Brilot AF, **Korostelev AA#**, Ermolenko DN#, Grigorieff N#. “Structure of the ribosome with elongation factor G trapped in the pretranslocation state”. *Proc Natl Acad Sci USA*. 110(52):20994-9 (2013).
33. Svidritskiy E, Ling C, Ermolenko DN#, **Korostelev AA#**. “Blasticidin S inhibits translation by trapping a deformed tRNA conformation on the ribosome”. *Proc Natl Acad Sci USA*. 110(30): 12283–12288 (2013).
34. Santos N, Zhu J, Donohue JP, **Korostelev AA#**, Noller HF#. “Crystal Structure of the 70S Ribosome Bound with the Q253P Mutant Form of Release Factor RF2.” *Structure*. 21(7): 1258-63 (2013).
35. Zhou J, **Korostelev AA**, Lancaster L, Noller HF. “Crystal Structures of 70S Ribosomes Bound to Release Factors RF1, RF2 and RF3”. *Curr. Op. Struct. Biol*. 22(6):733-42 (2012).
36. Korennykh AV, **Korostelev AA**, Egea PF, Finer-Moore J, Stroud RM, Zhang C, Shokat KM, Walter P. “Structural and functional basis for RNA cleavage by Ire1”. *BMC Biol*., **9**(1):47 (2011).

37. Korennykh AV, Egea PF, **Korostelev AA**, Finer-Moore J, Stroud RM, Zhang C, Shokat KM, Walter P. “Cofactor-mediated conformational control in the bifunctional kinase/RNase Ire1”. *BMC Biol*., **9**(1):48 (2011).
38. **Korostelev AA#**. “Structural aspects of translation termination on the ribosome”. *RNA*, **17**(8): 1409– 1421 (2011).
39. Zhu J*, **Korostelev A***, Costantino DA, Donohue JP, Noller HF, Kieft JS. “Crystal structures of complexes containing domains from two viral internal ribosome entry site (IRES) RNAs bound to the 70S ribosome”. *Proc Natl Acad Sci USA,* **108**: 1839-1844 (2011).
40. **Korostelev A**, Zhu J, Asahara H, Noller, HF. “Recognition of the amber UAG stop codon by release factor RF1”. *EMBO J.,* **29**: 2577 – 2585 (2010).
41. Korennykh A, Egea P, **Korostelev AA**, Finer-Moore J, Zhang C, Shokat K, Stroud R, Walter P. “The unfolded protein response signals through high-order assembly of Ire1”. *Nature,* **457**(7230): 687-693 (2009).
42. **Korostelev A**, Ermolenko D, Noller HF. “Structural dynamics of the ribosome”. *Curr. Opin. Chem. Biol*., **12**: 1-10 (2008).
43. **Korostelev A**, Laurberg M, Noller HF. “Multistart simulated annealing refinement of the crystal structure of the 70S ribosome”. *Proc Natl Acad Sci USA*, **106**: 18195-200 (2009).
44. **Korostelev A***, Asahara H*, Lancaster L*, Laurberg M, Hirschi A, Zhu J, Trakhanov S, Scott W, Noller HF. “Crystal structure of a translation termination complex formed with release factor RF2”. *Proc Natl Acad Sci USA*, **105**: 19684-9 (2008).
45. Laurberg M*, Asahara H*, **Korostelev A***, Zhu J, Trakhanov S, Noller, HF. “Structural basis for translation termination on the 70S ribosome”. *Nature,* **454**: 852-857 (2008).
46. **Korostelev A**, Noller HF. “Analysis of structural dynamics in the ribosome by TLS crystallographic refinement”. *J. Mol. Biol.,* **373**: 1058-1070 (2007).
47. **Korostelev A***, Trakhanov S*, Asahara H, Laurberg M, Lancaster L, Noller HF. “Interactions and dynamics of the Shine Dalgarno helix in the 70S ribosome”. *Proc Natl Acad Sci USA*, **104**:16840-16843 (2007).
48. **Korostelev A**, Noller HF. “The ribosome in focus: new structures bring new insights". *Trends Biochem Sci.,* 32(9): 434-41 (2007).
49. **Korostelev A**, Trakhanov S, Laurberg M, Noller HF. “Crystal structure of a 70S ribosome-tRNA complex reveals functional interactions and rearrangements”. *Cell,* **126**: 1065-1077 (2006).
50. Murray S, Nilsson CL, Hare JT, Emmett MR, **Korostelev A,** Ongley H, Marshall AG, Chapman MS. “Characterization of the Capsid Protein Glycosylation of Adeno-associated Virus (AAV-2) by High Resolution Mass Spectrometry”. *J. Virology*, 80(12): 6171-6 (2006).
51. Fabiola F, **Korostelev A,** Chapman MS. “Bias in cross-validated free R factors: mitigation of the effects of non-crystallographic symmetry”. *Acta Cryst., D*62: 227-238 (2006).
52. **Korostelev A**, Fenley MO, Chapman MS. “Impact of a Poisson-Boltzmann Electrostatic Restraint on Protein Structures Refined at Medium Resolution”. *Acta Cryst., D*60: 1786-1794 (2004).
53. Gao HX, Sengupta J, Valle M, **Korostelev A**, Eswar N, Stagg SM, Van Roey P, Agrawal RK, Harvey SC, Sali A, Chapman MS, Frank J. “Study of the structural dynamics of the E-coli 70S ribosome using real-space refinement”. *Cell*, **113**(6): 789-801 (2003).
54. Lima S, Hildenbrand J, **Korostelev A**, Hattman S, Li H. “Crystal structure of an RNA helix recognized by a Zinc-finger protein: an 18 base pair duplex at 1.6 Å resolution”. *RNA*, 8(7): 924-932 (2002).
55. Fabiola F, Bertram R, **Korostelev A,** Chapman MS. “An improved hydrogen bond potential: Impact on medium-resolution structures”. *Protein Science,* 11(6): 1415-1423 (2002).

56. **Korostelev A,** Bertram R, Chapman MS. “Simulated annealing real-space refinement as a tool in model building”. *Acta Cryst., D*58: 761-767 (2002).

Books & Chapters

1. **Korostelev AA**. ”Cryogenic Electron Microscopy (Cryo-EM)”. In: Nucleic Acids in Chemistry and Biology: Edition 4. RCS Publishing. (2022).
2. Noller HF, Ermolenko DN, **Korostelev A**, Laurberg M, Zhu J, Asahara H, Lancaster L, Horan L, Hirschi A, Donohue JP, Trakhanov S, Spiegel C, Hickerson R, Cornish P, Ha T. “Studies on the mechanisms of translocation and termination”. *In: Ribosomes, Structure, Function, and Dynamics*. (eds. M.V. Rodnina, W. Wintermeyer and R. Green) Wien, New York. pp 349-360 (2011).

** These authors contributed equally* *# Corresponding or co-corresponding author*

Selected Oral Presentations

International

- Moscow State University, Cryo-EM Club. Virtual Seminar. May 13, 2020. Moscow, Russia. 2020
- 20th RiboClub Meeting. Speaker. September 22-26, 2019. Sherbrooke University, Quebec Canada. 2019
- Future Biotech Winter Retreat 2019. Speaker. January 25-31, 2019. St. Petersburg, Russia. 2019
- Ribosome 2019 Annual Meeting. Speaker. January 6, 2019. Merida, Mexico. 2019
- Structural Biology Biochemistry Conference. Speaker. September 19, 2017. Zurich, Switzerland. 2017
- Protein Synthesis and Translation Control EMBO Conference. Speaker. September 9, 2017. Heidelberg, Germany. 2017
- Moscow State University. Presentation. August 31, 2017. Moscow, Russia. 2017
- Biopharma meeting at BioKlinikum, OOO, Moscow. Presentation. August 29, 2017. Moscow, Russia. 2017
- Engelhardt Institute of Molecular Biology, Russian Academy of Sciences. Seminar. August 28, 2017. Moscow, Russia. 2017
- EMBO Ribosome Conference 2016: Ribosome Structure and Function. Speaker. July 6-10, 2016. Strasbourg, France. 2016
- Uppsala University, Department of Cell and Molecular Biology. Seminar. March 17, 2016. Uppsala, Sweden. 2016
- Regulating with RNA in Bacteria and Archaea Conference. Speaker. December 5-8, 2015. Cancun, Mexico. 2015
- Nucleic Acids Conference. Speaker. December 5-9, 2014. Cancun, Mexico. 2014
- Moscow State University, Department of Bioengineering and Bioinformatics. Seminar. August 14, 2014. Moscow, Russia. 2014
- RNA Society Meeting. Presentation. June 5, 2014. Quebec City. Canada. 2014
- Protein & RNA Structure Prediction Conference. Speaker. December 2013. Mexico. 2013
- RiboClub-2012 Meeting. Session Chair. September 25, 2012. Sherbrooke, Canada. 2012
- Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of Russian Academy of Sciences. Seminar. August 8, 2011. Novosibirsk, Russia. 2011

National

- University of Alabama Birmingham. Seminar. October 23, 2019. Birmingham, AL. 2019
- Icagen, Inc. Business Development. Seminar. May 6-8, 2019. Tucson, AZ. 2019

- Duke University, Dept. of Biochemistry. Seminar. “Structural insight into stop-codon decoding and termination”. February 15, 2019. Durham, NC. 2019
- CFF-CFTR Translational Readthrough Workshop. January 22, 2019. Bethesda, MD. 2019
- Melinta Therapeutic, Inc. Seminar. October 22-23, 2018. New Haven, CT. 2018
- Johns Hopkins University. Seminar. Department of Molecular Biology and, Genetics. “How the ribosome accurately builds proteins: visualizing translation by cryo-EM”. October 10-12, 2018. Baltimore, MD. 2018
- Yale University. Seminar talk. Department of Molecular Biophysics and Biochemistry. “How the ribosome accurately builds proteins: visualizing translation by cryo-EM”. September 24, 2018. New Haven, CT. 2018
- CSHL Translational Control Meeting. Chair. September 4-8, 2018. Cold Springs Harbor, NY. 2018
- RNA Society Annual Meeting. Invited Guest Speaker. May 29-June 1, 2018. University of Berkeley, Berkeley, CA. 2018
- Princeton University. Seminar Speaker. “Visualizing Translation with Ensemble cryo-EM”. April 25-26, 2018. Princeton, NJ. 2018
- ASBMB Annual Meeting. Earl & Thressa Stadtman Young Scholar Award Recipient Acceptance. April 21-24, 2018. San Diego, CA. 2018
- HHMI Investigator Interview. Invited Presentation. April 2-4, 2018. Janelia Research Campus, Ashburn, VA. 2018
- PTC Therapeutics. Invited Seminar. January 31-February 2, 2018. S. Plainfield, NJ. 2018
- RNA Summit 2017. November 14, 2017. Boston, MA. 2017
- 14th Annual North East Structure Symposium (NESS). October 28, 2017. University of Connecticut, Storrs, CT. 2017
- Gordon Research Conference - Nucleic Acids. June 6, 2017. Biddeford, ME. 2017
- Moderna Therapeutics. Seminar. June 22, 2017. Cambridge MA. 2017
- Wesleyan University, Department of Biology. March 30, 2017. Middletown, CT. 2017
- Columbia University, Departments of Chemistry and Biological Sciences. March 13, 2017. New York, NY. 2017
- Clark University, Department of Chemistry. January 23, 2017. Worcester, MA. 2017
- University of Illinois at Chicago, Department of Medicinal Chemistry Pharmacognosy. October 20, 2016. Chicago, IL. 2016
- University of Connecticut Health Center. Department of Molecular Biology and Biophysics, October 13, 2016. Storrs, CT. 2016
- Cold Spring Harbor Laboratory Translational Control Meeting, September, NY. 2016
- Thomas Jefferson University, Department of Biochemistry and Molecular biology. June 6, 2016. Philadelphia, PA. 2016
- Brown University Conference. Seminar. May 1, 2016, Providence, RI. 2016
- University of Rochester Medical Center, Department of Biochemistry and Biophysics. April 27, 2016, Rochester, NY. 2016
- University of Florida, College of Medicine. Seminar. July 23, 2015, Gainesville, FL. 2015
- Cold Spring Harbor Laboratory Translational Control Meeting. September 2-6, 2014. NY. 2014
- Gordon Research Conference. July 14, 2014. Newport, RI. 2014
- American Society for Biochemistry and Molecular Biology, ASBMB Annual Meeting. April 26-30, 2014. San Diego, CA. 2014
- Bacteriology and Infectious Diseases Conference. November 17-19, 2014. Chicago, IL. 2014
- FASEB Meeting, June 23, 2014. Snowmass, CO. 2014

- Boston University Medical School, Department of Physiology & Biophysics, Seminar. March 25, 2014. Boston, MA. 2014
- Finger Lakes RNA Conference. October 25, 2013. Canandaigua, NY. 2013
- Clinical Microbiology Meeting. November 12, 2012. San Antonio, TX. 2012

Local/Regional Meetings (Speaker)

- UMMS. PMM In-House Seminar Series, October 21, 2019, Worcester, MA. 2019
- UMMS 24th Annual Research Retreat. October 17-18, 2019. UMass Amherst, MA. 2019
- UMMS. Department of Cell and Dev. Biology. February 17, 2016. Worcester, MA 2016
- Genzyme. Seminar. December 14, 2015. Framingham, MA. 2015
- UMMS Research Retreat. October 9, 2015. UMass Amherst, MA. 2015
- RiboTribe symposium. June 28, 2014. Santa Cruz, CA. 2014
- UMMS Research Retreat. Woods Hole, MA. 2010
- UMMS RNA Club, chalk talks. Worcester, MA. 2014, 2015, 2017

Selected Presentations by Korostelev Lab Members (2018-2020)

Christine Carbone, GSBS Student

- Oral Presentation. CSHL Translational Control Meeting (Virtual). September 1-4. 2020
- RNA Society Annual Meeting (Virtual). Poster presentation. May 26-28, 2020
- Molecular Biophysics in the Northeast (MBN Meeting). Oral presentation. November 9, Northeastern University, Boston, MA. 2019
- UMMS 24th Annual Research Retreat. Poster presentation. October 17. Amherst, MA. 2019
- RNA Therapeutics Conference. Poster presentation. June 26-28, 2019. University of Massachusetts Medical School, Worcester, MA. 2019
- Ribosome 2019 Meeting. Poster presentation. January 5-11, 2019. Merida, Mexico. 2019

Anna Loveland, Ph.D. Postdoctoral Associate and Instructor

- Selected for Oral Presentation. CSHL Translational Control Meeting (Virtual). September 1-4, 2020. 2020
- RNA Society Annual Meeting. Poster presentation. June 11-15, 2019. Krakow, Poland. 2019
- New England Cryo-EM Conference. Oral presentation. May 31, 2019. Yale University, New Haven, CT. 2019
- RNA Society Annual Meeting. Oral presentation. May 29 - June 1, 2018. University of Berkeley, Berkeley, CA. 2018
- Biochemistry and Molecular Biophysics Departmental Seminar Series. Oral presentation. March 2018. Washington University in St. Louis, St. Louis, MO. 2018

Denis Susorov, Ph.D. Postdoctoral Associate

- Selected for Poster Presentation. CSHL Translational Control Meeting (Virtual). September 1-4, 2020. 2020
- Molecular Biophysics in the Northeast meeting. Poster presentation. November 9, 2019. Northeastern University, Boston, MA. 2019

Gabriel Demo, Ph.D. Postdoctoral Associate

- RNA Society Annual Meeting. Oral presentation. June 11-15, 2019. Krakow, Poland. 2019
- RNA Society Annual Meeting. Poster presentation. May 29 - June 1, 2018. University of Berkeley, Berkeley, CA. 2018
- New England Cryo-EM Conference. Oral presentation. May 11, 2018. Yale University, New Haven, CT. 2018

Egor Svidritskiy (Yuri Iozzo), Ph.D. Postdoctoral Associate and Instructor

- RICCEM International Conference. Oral presentation. June 2-5, 2019. Moscow, Russia. 2019

- CSHL Translational Control Meeting. Oral presentation. September 4-8, 2018. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY. 2018
- RNA Society Annual Meeting. Poster presentation. May 29 - June 1, 2018. University of Berkeley, Berkeley, CA. 2018

Ying Zhang, Ph.D. Postdoctoral Associate

- RNA Society Annual Meeting. Poster presentation. May 29 - June 1, 2018. University of Berkeley, Berkeley, CA. 2018

Educational Activities

Advising and Mentoring

Students

Ochoa,Humberto, GSBS Rotation Student, Supervisor 2020
Current Position: GSBS Student

Fontana, Rachel, GSBS Rotation Student, Supervisor 2019 - 2020
Current Position: GSBS Student, Lee Lab

Friess, Leah, GSBS Rotation Student, Supervisor 2019
Current Position: GSBS Student

Egri, Shawn, GSBS Rotation Student, Supervisor 2019
Current Position: GSBS Student

Landecki, Jacob, GSBS Rotation Student, Supervisor 2019
Current Position: GSBS Student, Kelch Lab

Carbone, Christine, GSBS Student, UMMS, Supervisor and Advisor 2018 - present
Current Position: Korostelev Lab

Feyder, Michael, GSBS Rotation Student, Supervisor 2017 - 2018
Current Position: GSBS Student, Munson Lab

Kositsky, Rachel, Summer Intern from Duke University, Supervisor 2016
Current position: Duke University, Raleigh-Durham, North Carolina, 3rd year Ph.D. Student. Sandeep Dave lab. T32 funded.

Gaborova, Romana, Summer Intern from Masaryk Univ. Czech Republic, Supervisor 2015 - 2017
Current position: Protein Data Bank (RCSB), Czech Republic, Research Assistant

Jecrois, Anne, GSBS Rotation Student, Supervisor 2015 - 2016
Current position: UMass Medical School, Schiffer Lab, Research Assistant

Ganeshan, Sanjay, Summer Intern, Massachusetts Academy of Math and Science, 2015
High School, Supervisor
Current position: Massachusetts Institute of Technology, Graduate Student

Silva, Olivia, Summer Intern from Massachusetts Academy of Math and Science High 2013
School, Supervisor. Current Position: Unknown.

Boyd, Michael, Undergraduate Intern from WPI and Research Assistant, Supervisor 2012 - 2014
Current position: Beth Israel Deaconess Medical Center, Harvard Medical School

Stepanyuk, Yevheniya, Summer Intern from, Shrewsbury High School, Supervisor 2012
Current position: Massachusetts College of Pharmacy and Health Service, Student

Holunenko, Vitaly, Summer Intern from Syracuse University, Supervisor 2012
Current position: Boston, MA, Research Assistant

Beane, Timothy, Summer Intern from WPI, Supervisor 2012
Current Position: University of Rochester, NY, Lab Tech

Postdoctoral Trainees

Golovenko, Dmitrij, Postdoctoral Associates, Supervisor 2019 - present
Current Position: UMass Medical School, Korostelev Laboratory

Susorov, Denis, Postdoctoral Associate, Supervisor 2019 - present
Current Position: UMass Medical School, Korostelev Laboratory

Loveland, Anna, Postdoctoral Associate and Instructor (2020), Supervisor 2015 - present
Current Position: UMass Medical School, Korostelev Laboratory

Zhang, Ying, Postdoctoral Associate, Supervisor 2014 - present
Current Position: UMass Medical School, Korostelev Laboratory

Demo, Gabriel, Postdoctoral Associate, Supervisor 2014 - 2019
Current Position: Masaryk University - CEITEC, Brno, Czech Republic, Group Leader

Koh, Cha San, Postdoctoral Associate, Supervisor 2012 - 2016

Current Position: Dr. Peter Sarin Laboratory, University of Helsinki, Finland, Postdoctoral Researcher

Iozzo, Yuri, Postdoctoral Associate and Instructor, Supervisor 2010 - 2019
Current Position: Sanofi Genzyme, Framingham, MA, Senior Scientist

Laboratory Staff

Parks, Alexander, Laboratory Technician I, II, Supervisor 2015 - 2017
Current Position: UMass Medical School MD/PhD Student, Mitchell lab

Bah, Eugene, Laboratory Technician I, Supervisor 2013 - 2014
Current Position: Mayo Clinic, MD/PhD Program, Student

Madireddy, Rohini, Research Associate I, Supervisor 2010 - 2015
Current Position: Medicago, Inc., Researcher