Postdoctoral position open at the University of Massachusetts Medical School, in the Korostelev Lab: <https://www.umassmed.edu/korostelev-lab/>.

We study translation regulation, using cryo-EM and biochemistry. We are particularly interested in: (1) Translation accuracy; (2) Ribosome's central role in bacterial stress signaling and gene regulation; (3) Neurodegenerative and other diseases, which originate from dysregulation of translation. References to some lab publications are provided below.

Our laboratory is housed at the RNA Therapeutics Institute, a vibrant and highly interactive research community: <https://www.umassmed.edu/rti/about-the-rti/faculty-members/>. Our colleagues are interested in nearly all aspects of RNA biology, from small to large RNAs to RNA chemistry and therapeutics development.

We seek a highly motivated person who very recently received a PhD, or will soon receive a PhD. Applications sent prior to the dissertation defense date are welcome.  
  
Please submit the following information via email to: [*ann.powers@umassmed.edu*](mailto:ann.powers@umassmed.edu)

1) your CV (including publication list);  
2) in less than 2 pages, an outline of your:

     (i) previous work - focusing on your most interesting finding(s);

     (ii) your current/future scientific interests, and whether/which aspects of translation regulation sound interesting to you;

3) email addresses of three references.

Selected publications (accessible via the provided links):

-      Svidritskiy et al. “[Extensive ribosome and RF2 rearrangements during translation termination](https://elifesciences.org/articles/46850)”. *eLife.* 2019.

-      Loveland et al. “[Ensemble cryo-EM elucidates the mechanism of translation fidelity](http://em.rdcu.be/wf/click?upn=KP7O1RED-2BlD0F9LDqGVeSIKXTPnBku1A9OWTgBG4xjQ-3D_rJ0Q-2F8zH14bc-2FDhyIYgAaaIoDtN-2BMVA8uQ8ik0weaaWU8PS-2BLdbyuwTFcQze4H7H3NsgdQgtZP22s4d-2F7Ah5F9SEpNUyeYFo-2BwrMeGTv8bX708iwdYFE7myt3Zo8qQ0eqg1fJusX-2BXV1bNBbSZvYswm3izFmUn2nSTQNeuX5exHYwsMvNwwmnHT-2F6JYMZF6tiuin7sd3OMFe1MjOiM4u2ETfX1BuxYea4ybObPoymQQ-3D)”. *Nature*. 2017.

-      Demo et al. “[Structure of RNA polymerase bound to ribosomal 30S subunit](https://elifesciences.org/articles/28560)”. *eLife*. 2017.

-       Abeyrathne et al. “[Ensemble cryo-EM uncovers inchworm-like translocation of a viral IRES through the ribosome](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4896748/)”. *eLife*. 2016.

-       Loveland et al. “[Ribosome•RelA structures reveal the mechanism of stringent response activation](https://elifesciences.org/articles/17029)”. *eLife*. 2016.