Stanford

Alexandra (Sasha) Khristich

Postdoctoral Scholar, Biology

Bio

PROFESSIONAL EDUCATION

- Master of Science, Moscow State University (2015)
- Doctor of Philosophy, Tufts University (2020)
- Bachelor of Science, Moscow State University (2015)
- PhD, Tufts University , Biology (2020)
- BS/MS, Moscow State University , Chemistry (2015)

STANFORD ADVISORS

- Dmitri Petrov, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Replication-independent instability of Friedreich's ataxia GAA repeats during chronological aging** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Neil, A. J., Hisey, J. A., Quasem, I., McGinty, R. J., Hitczenko, M., Khristich, A. N., Mirkin, S. M.
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- **On the wrong DNA track: Molecular mechanisms of repeat-mediated genome instability** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Khristich, A. N., Mirkin, S. M.
  2020; 295 (13): 4134-4170
- **On the wrong DNA track: Molecular mechanisms of repeat-mediated genome instability.** *The Journal of biological chemistry*
  Khristich, A. N., Mirkin, S. M.
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- **Large-scale contractions of Friedreich's ataxia GAA repeats in yeast occur during DNA replication due to their triplex-forming ability** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Khristich, A. N., Armenia, J. F., Matera, R. M., Kolchinski, A. A., Mirkin, S. M.
  2020; 117 (3): 1628-1637
- **RNA-DNA hybrids promote the expansion of Friedreich's ataxia (GAA)(n) repeats via break-induced replication** *NUCLEIC ACIDS RESEARCH*
  Neil, A. J., Liang, M. U., Khristich, A. N., Shah, K. A., Mirkin, S. M.
  2018; 46 (7): 3487-3497
- **Multi-targeted effects of G4-aptamers and their antiproliferative activity against cancer cells** *BIOCHIMIE*
  Ogloblina, A. M., Khristich, A. N., Karpechenko, N. Y., Semina, S. E., Belitsky, G. A., Dolinnaya, N. G., Yakubovskaya, M. G.

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