COLLEGE OF NANOSCALE SCIENCE & ENGINEERING

Recent Nanobioscience Constellation Publications

Thomas Begley

Begley, U., Sosa, M. S., Avivar-Valderas, A., Patil, A., Endres, L., Yeriel Estrada, Y., Chan, C. T. Y., Su, D., Dedon, P. C. Aguirre-Ghiso, J. A., and **Begley T. J.** Human tRNA methyltransferase 9 prevents tumor growth by regulating LIN9 and HIF1α. 2013. EMBO Molecular Medicine. 5, 1 - 18

Svilar D., Dyavaiah M., Brown A.R., Tang J.B., Li J., McDonald P.R., Shun T.Y., Braganza A., Wang X.H., Maniar S., St Croix C.M., Lazo J.S., Pollack I.F., **Begley T.J.**, Sobol R.W. Alkylation sensitivity screens reveal a conserved cross-species functionome. 2012. Mol Cancer Res. 10: 1580-96. **(Highlighted on the Cover)**

Klionsky, D. J.,… **Begley T. J.,** … Zuckerbraun B*. 2012. Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy. 8: 445-544.

Patil, A., Dyavaiah, M., Rooney, J., Joseph, F., Chan, C. T. Y., Dedon, P. C. and **Begley T. J.** 2012. Increased tRNA modification and gene-specific codon usage regulate cell cycle progression during the DNA damage response. Cell Cycle. 11: 3656 - 65. **(Highlighted in Chemical Reviews in Toxicology)**

Patil, A., Dyavaiah, M., Rooney, J., Chan, C. T. Y., Dedon, P. C. and **Begley T. J.** 2012. Translational infidelity-induced protein stress results from a deficiency in Trm9-catalyzed tRNA modifications. RNA Biology. 9: 990 - 1001

Chan, C. T. Y., Pang, Y. L. J., Babu, I. R., Dyavaiah, **Begley T. J.,** Dedon, P. C. 2012. Reprogramming of tRNA modifications controls the oxidative stress response by selective translation of ribosomal protein paralogs. Nature Communications. 3: 937 - 945

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Magnus Bergkvist

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N. Fahrenkopf, Z. Rice, **M. Bergkvist**, A. N. Deskins and N.C. Cady. “Immobilization Mechanisms of Deoxyribonucleic Acid (DNA) to Hafnium Dioxide (HfO_2) Surfaces for Biosensing Applications" ACS Applied Materials & Interfaces. **2012**, 4(10), 5360-5368.

Y.H. Tan, **M. Bergkvist** and C. S. Tan "Investigation of growth kinetic, inter-diffusion and quality of Ge-on-Si epitaxial film by a three-step growth approach". ECS Journal of Solid State Science and Technology , **2012**, 1(3), 117-122.

Sara Brenner

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Nadine Hempel

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J. Andres Melendez

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Susan Sharfstein

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Scott Tenenbaum

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Mohamed Trebak

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Yubing Xie

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