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Publications

PUBLICATIONS

- **Simultaneous profiling of host expression and microbial abundance by spatial metatranscriptome sequencing** *GENOME RESEARCH*
Lyu, L., Li, X., Feng, R., Zhou, X., Guha, T. K., Yu, X., Chen, G., Yao, Y., Su, B., Zou, D., Snyder, M. P., Chen, L.
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- **Simultaneous profiling of host expression and microbial abundance by spatial metatranscriptome sequencing.** *Genome research*
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- **Single-cell analyses define a continuum of cell state and composition changes in the malignant transformation of polyps to colorectal cancer.** *Nature genetics*
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- **MITI minimum information guidelines for highly multiplexed tissue images.** *Nature methods*
Schapiro, D., Yapp, C., Sokolov, A., Reynolds, S. M., Chen, Y., Sudar, D., Xie, Y., Muhlich, J., Arias-Camison, R., Arena, S., Taylor, A. J., Nikolov, M., Tyler, et al
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2020; 181 (2): 236–49
- **Nucleofection of phiC31 Integrase Protein Mediates Sequence-Specific Genomic Integration in Human Cells.** *Journal of molecular biology*
Guha, T. K., Calos, M. P.
2020
- **Plasmid-Mediated Gene Therapy in Mouse Models of Limb Girdle Muscular Dystrophy** *MOLECULAR THERAPY-METHODS & CLINICAL DEVELOPMENT*
Guha, J. K., Pichavant, C., Calos, M. P.
2019; 15: 294–304
- **Production of Endoglucanase and Xylanase Using Food Waste by Solid-State Fermentation** *Waste and Biomass Valorization*
Tian, M., Wai, A., Guha, T. K., Hausner, G., Yuan, Q.

2018: 1-8

- **Applications of Alternative Nucleases in the Age of CRISPR/Cas9.** *International journal of molecular sciences*
Guha, T. K., Edgell, D. R.
2017; 18 (12)
- **The intron landscape of the mtDNA cytb gene among the Ascomycota: introns and intron-encoded open reading frames.** *Mitochondrial DNA. Part A, DNA mapping, sequencing, and analysis*
Guha, T. K., Wai, A., Mullineux, S. T., Hausner, G.
2017: 1-10
- **Three new active members of the I-OnuI family of homing endonucleases.** *Canadian journal of microbiology*
Bilton, I. M., Guha, T. K., Wai, A., Hausner, G.
2017
- **Programmable Genome Editing Tools and their Regulation for Efficient Genome Engineering.** *Computational and structural biotechnology journal*
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- **Insertion of Group II Intron-Based Ribozyme Switches into Homing Endonuclease Genes.** *Methods in molecular biology (Clifton, N.J.)*
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- **Using Group II Introns for Attenuating the In Vitro and In Vivo Expression of a Homing Endonuclease** *PLOS ONE*
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- **I-OmiI and I-OmiII: Two intron-encoded homing endonucleases within the Ophiostoma minus rns gene** *FUNGAL BIOLOGY*
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- **A homing endonuclease with a switch: Characterization of a twintron encoded homing endonuclease** *FUNGAL GENETICS AND BIOLOGY*
Guha, T. K., Hausner, G.
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- **PCR-based bioprospecting for homing endonucleases in fungal mitochondrial rRNA genes.** *Methods in molecular biology (Clifton, N.J.)*
Hafez, M., Guha, T. K., Shen, C., Sethuraman, J., Hausner, G.
2014; 1123: 37-53

PRESENTATIONS

- Guha, T.K.* and Hausner, G. Controlling a DNA chopper: Group II introns as attenuators for homing endonuclease expression. 1st - 3rd June, 2016; University of Manitoba, Winnipeg, Canada. - Biophysical Society of Canada. (June 1, 2016 - June 3, 2016)
- Guha, T.K.* and Hausner, G. On-switch regulators in action: Regulation of a Homing endonuclease by group II introns. - Canadian Society of Microbiologists (June 15, 2015 - June 18, 2015)
- Guha, T.K.* and Hausner, G. A twintron encoded homing endonuclease with an on-switch. - Keystone Symposia, Keystone Symposia- Precision genome engineering and synthetic biology. (January 11, 2015 - January 16, 2015)
- Guha, T.K.* and Hausner, G. A homing endonuclease with a switch: Characterization of a twintron encoded homing endonuclease. - Canadian Society of Microbiologists (June 17, 2013 - June 20, 2013)