

Raman Venkat Nelakanti

- Affiliate, Department Funds
- Fellow in Medicine - Med/Hematology

Bio

CLINICAL FOCUS

- Internal Medicine
- Fellow

PROFESSIONAL EDUCATION

- MD, Yale School of Medicine (2023)
- PhD, Yale University , Genetics (2022)
- BS, Stanford University , Bioengineering (2014)

Publications

PUBLICATIONS

- **Impact of memory T cells on SARS-CoV-2 vaccine response in hematopoietic stem cell transplant.** *PloS one*
VanOudenhove, J., Liu, Y., Nelakanti, R., Kim, D., Busarello, E., Ovalle, N. T., Qi, Z., Mamillapalli, P., Siddon, A., Bai, Z., Axtmayer, A., Corso, C., Kothari, et al
2025; 20 (4): e0320744
- **N6-methyladenine in DNA antagonizes SATB1 in early development.** *Nature*
Li, Z., Zhao, S., Nelakanti, R. V., Lin, K., Wu, T. P., Alderman, M. H., Guo, C., Wang, P., Zhang, M., Min, W., Jiang, Z., Wang, Y., Li, et al
2020; 583 (7817): 625-630
- **m(6)A Modification Prevents Formation of Endogenous Double-Stranded RNAs and Deleterious Innate Immune Responses during Hematopoietic Development** *IMMUNITY*
Gao, Y., Vasic, R., Song, Y., Teng, R., Liu, C., Gbyli, R., Biancon, G., Nelakanti, R., Lobben, K., Kudo, E., Liu, W., Ardasheva, A., Fu, et al
2020; 52 (6): 1007+
- **Mammalian ALKBH1 serves as an N6-mA demethylase of unpairing DNA.** *Cell research*
Zhang, M., Yang, S., Nelakanti, R., Zhao, W., Liu, G., Li, Z., Liu, X., Wu, T., Xiao, A., Li, H.
2020; 30 (3): 197-210
- **Autologous iPSC-Based Vaccines Elicit Anti-tumor Responses In Vivo.** *Cell stem cell*
Kooreman, N. G., Kim, Y. n., de Almeida, P. E., Termglinchan, V. n., Diecke, S. n., Shao, N. Y., Wei, T. T., Yi, H. n., Dey, D. n., Nelakanti, R. n., Brouwer, T. P., Paik, D. T., Sagiv-Barfi, et al
2018
- **ALKBH5 modulates hematopoietic stem and progenitor cell energy metabolism through m6A modification-mediated RNA stability control.** *Cell reports*
Gao, Y., Zimmer, J. T., Vasic, R., Liu, C., Gbyli, R., Zheng, S. J., Patel, A., Liu, W., Qi, Z., Li, Y., Nelakanti, R., Song, Y., Biancon, et al
2023; 42 (10): 113163
- **ALKBH5 MODULATES HEMATOPOIETIC STEM AND PROGENITOR CELL ENERGY METABOLISM THROUGH M6A MODIFICATION - MEDIATED RNA STABILITY CONTROL**
Gao, Y., Biancon, G., Flavell, R., Gbyli, R., Halene, S., Kibbey, R., Li, H., Li, Y., Liu, C., Liu, W., Nelakanti, R., Patel, A., Qi, et al

ELSEVIER SCIENCE INC.2023: S82

- **Epigenetic Regulation by DNA N(6)-Methyladenine in Placental Tissue is Necessary for Embryonic Development**
Alderman, M. H., Nelakanti, R., Lin, K., Li, Z., Jiang, Z., Xiao, A.
SPRINGER HEIDELBERG.2022: 56-57
- **A New Link to Primate Heart Development.** *Developmental cell*
Nelakanti, R. V., Xiao, A. Z.
2020; 54 (6): 685-686
- **Alloimmune Responses of Humanized Mice to Human Pluripotent Stem Cell Therapeutics.** *Cell reports*
Kooreman, N. G., de Almeida, P. E., Stack, J. P., Nelakanti, R. V., Diecke, S. n., Shao, N. Y., Swijnenburg, R. J., Sanchez-Freire, V. n., Matsa, E. n., Liu, C. n., Connolly, A. J., Hamming, J. F., Quax, et al
2017; 20 (8): 1978–90
- **Teratoma formation: a tool for monitoring pluripotency in stem cell research.** *Current protocols in stem cell biology*
Nelakanti, R. V., Kooreman, N. G., Wu, J. C.
2015; 32: 4A 8 1-4A 8 17