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Memorial Sloan Kettering Cancer Center

Bharat Vaidyanathan

Graduate Student

Start Year

2010

End Year

2016

Education

MS, University of Calcutta

Publications

First Author Publications

Vaidyanathan, B., Chaudhry, A., Yewdell, W. T., Angeletti, D., Yen, W.-F., Wheatley, A. K., Bradfield, C. A., McDermott, A. B., Yewdell, J. W., Rudensky, A. Y., & Chaudhuri, J. (2017). The aryl hydrocarbon receptor controls cell-fate decisions in B cells. *The Journal of Experimental Medicine*, *214*(1), 197–208. https://doi.org/10.1084/jem.20160789

Vaidyanathan, B., & Chaudhuri, J. (2015). Epigenetic Codes Programing Class Switch Recombination. *Frontiers in Immunology*, *6*, 405. https://doi.org/10.3389/fimmu.2015.00405

Vaidyanathan, B., Yen, W.-F., Pucella, J. N., & Chaudhuri, J. (2014). AIDing Chromatin and Transcription-Coupled Orchestration of Immunoglobulin Class-Switch Recombination. *Frontiers in Immunology*, *5*, 120. https://doi.org/10.3389/fimmu.2014.00120

Contributing Author Publications

Yewdell, W. T., Kim, Y., Chowdhury, P., Lau, C. M., Smolkin, R. M., Belcheva, K. T., Fernandez, K. C., Cols, M., Yen, W.-F., Vaidyanathan, B., Angeletti, D., McDermott, A. B., Yewdell, J. W., Sun, J. C., & Chaudhuri, J. (2020). A Hyper-IgM Syndrome Mutation in Activation-Induced Cytidine Deaminase Disrupts G-Quadruplex Binding and Genome-wide Chromatin Localization. *Immunity*, *53*(5), 952-970.e11. https://doi.org/10.1016/j.immuni.2020.10.003

Yen, W.-F., Sharma, R., Cols, M., Lau, C. M., Chaudhry, A., Chowdhury, P., Yewdell, W. T., Vaidyanathan, B., Sun, A., Coffre, M. Pucella, J. N., Chen, C.-C., Jasin, M., Sun, J. C., Rudensky, A. Y., Koralov, S. B., & Chaudhuri, J. (2019). Distinct Requirements of CHD4 during B Cell Development and Antibody Response. *Cell Reports*, *27*(5), 1472-1486.e5. https://doi.org/10.1016/j.celrep.2019.04.011

Yen, W.-F., Chaudhry, A., Vaidyanathan, B., Yewdell, W. T., Pucella, J. N., Sharma, R., Liang, Y., Li, K., Rudensky, A. Y., & Chaudhuri, J. (2017). BRCT-domain protein BRIT1 influences class switch recombination. *Proceedings of the National Academy of Sciences of the United States of America*, *114*(31), 8354–8359. https://doi.org/10.1073/pnas.1708211114

Zheng, S., Vuong, B. Q., Vaidyanathan, B., Lin, J.-Y., Huang, F.-T., & Chaudhuri, J. (2015). Non-coding RNA Generated following Lariat Debranching Mediates Targeting of AID to DNA. *Cell*, *161*(4), 762–773. https://doi.org/10.1016/j.cell.2015.03.020

Vuong, B. Q., Herrick-Reynolds, K., Vaidyanathan, B., Pucella, J. N., Ucher, A. J., Donghia, N. M., Gu, X., Nicolas, L., Nowak, U., Rahman, N., Strout, M. P., Mills, K. D., Stavnezer, J., & Chaudhuri, J. (2013). A DNA break- and phosphorylation-dependent positive feedback loop promotes immunoglobulin class-switch recombination. *Nature Immunology*, *14*(11), 1183–1189. https://doi.org/10.1038/ni.2732

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