

Publications

1. **P. Sethupathy***, C. Borel*, M. Gagnebin, G.R. Grant, S. Deutsch, T.S. Elton, A.G. Hatzigeorgiou, and S.E. Antonarakis (2007). Human miR-155 on chromosome 21 differentially interacts with its polymorphic target in the *AGTRI* 3'UTR – a mechanism for functional SNPs related to phenotypes. **American Journal of Human Genetics**, 81:405-413. (* equal contribution)
2. Y. Kawahara*, B. Zinshteyn*, **P. Sethupathy**, H. Iizasa, A.G. Hatzigeorgiou, and K. Nishikura (2007). Redirection of silencing targets by adenosine-to-inosine editing of microRNAs. **Science**, 315:1137-1140. (Highlighted in *Molecular Cell*, 23:792-793) (* equal contribution)
3. M. Megraw, **P. Sethupathy**, B. Corda, and A.G. Hatzigeorgiou (2006). miRGen: a database for the study of microRNA genomic organization and function. **Nucleic Acids Research**, 35:D149-D155.
4. **P. Sethupathy**, M. Megraw and A.G. Hatzigeorgiou (2006). A guide through current computational approaches for the identification of mammalian microRNA targets. **Nature Methods**, 3:881-886.
5. **P. Sethupathy**, B. Corda and A.G. Hatzigeorgiou (2006). TarBase: A comprehensive database of experimentally supported animal microRNA targets. **RNA**, 12:192-197. (Highlighted in *Nature Methods*, 3:948)
6. **P. Sethupathy***, M. Megraw*, M.I. Barrasa, and A.G. Hatzigeorgiou (2005). Computational Identification of Regulatory Factors Involved in MicroRNA Transcription. **Lecture Notes in Computer Science**, 3746:457-468. (* equal contribution)
7. T.A. Cleland and **P. Sethupathy** (2006). Non-topographical contrast enhancement in the olfactory bulb. **BMC Neuroscience**, 7:7. (Highly Accessed)

Manuscripts in progress

1. **P. Sethupathy** and S. Hannenhalli. A review of the mathematical derivation of poisson random fields for quantitative inference of natural selection pressure and mutation rate.
2. **P. Sethupathy**, H. Giang, J.B. Plotkin, and S. Hannenhalli. Genome-wide analysis of natural selection on human cis-elements.
3. M. Megraw, **P. Sethupathy**, K. Gumireddy, S.T. Jensen, Q. Huang, and A.G. Hatzigeorgiou. Human miR-128b targets host gene *ARPP-21* in a potential regulatory feedback loop.

Book Chapters

1. **P. Sethupathy**, M. Megraw and A.G. Hatzigeorgiou (2007). A suite of resources for the study of microRNA ontology and function. In *Regulation of Gene Expression by Small RNAs*, eds. Rajesh Gaur and John Rossi, Taylor and Francis Group, LLC.
2. **P. Sethupathy**, M. Megraw and A.G. Hatzigeorgiou (2006). Computational approaches to elucidate microRNA biology. In *microRNAs: From Basic Science to Disease Biology*, ed. Krishnarao Appasani, Cambridge University Press.