

# Assist.Prof.Dr. Alper Yilmaz



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## EDUCATION

- B.S. Molecular Biology and Genetics, Bilkent University, Ankara, Turkey, 1996 – 2000
- Ph.D. Molecular Virology, The Molecular, Cellular and Developmental Biology Graduate Program at the Ohio State University, Columbus, OH, 2000 – 2007

## EXPERIENCE IN RESEARCH AND TEACHING

- Teaching Assistantship The Ohio State University, Bio 113 and Bio 114, 2001
- Graduate Research Associate The Ohio State University, Molecular, Cellular and Development Biology Graduate Program, Columbus, OH, 2000 – 2007
- Post-doctoral Research Associate The Ohio State University, Plant Biotechnology Center, Columbus, OH 43210  
2008 – 2012

## PEER REVIEWED PUBLICATIONS

- **Yilmaz, A.**, Bolinger, C., Boris-Lawrie, K. 2006. Retrovirus translation initiation: Issues and hypotheses derived from study of HIV-1. *Current HIV Research* 4:131-139.
- **Yilmaz, A.**, Fernandez, S., Lairmore, M.D, Boris-Lawrie, K. 2006. Coordinated enhancement of transgene transcription and translation in a lentiviral vector. *Retrovirology* 3:13
- Bolinger, C., **Yilmaz, A.**, Hartman, T.R., Kovacic, M.B., Fernandez, S., Ye, J., Forget, M., Green, P.L., Boris-Lawrie, K. 2007. RNA helicase A interacts with divergent lymphotropic retroviruses and promotes translation of human T-cell leukemia virus type 1. *Nucleic Acids Res.* 35:2629
- Nadella, M.V.P., Kisseberth, W.C., Nadella, K.S., Thudi, N.K., Thamm, D.H., McNiel, E.A., **Yilmaz, A.**, Boris-Lawrie, K., Rosol, T.J. 2007. NOD/SCID Mouse Model of Canine T-cell Lymphoma with Humoral Hypercalcemia of Malignancy: Cytokine Gene Expression Profiling and In Vivo Bioluminescent Imaging. *Veterinary and Comparative Oncology* 6: 39
- **Yilmaz A.**, Nishiyama M.Y. Jr, Garcia-Fuentes B., Souza G.M., Janies D., Gray J., Grotewold E. 2008. GRASSIUS: A Platform for Comparative Regulatory Genomics Across the Grasses. *Plant Physiol.*149:171
- Lichtenberg, J., **Yilmaz, A.**, Welch, J.D., Kurz, K., Liang, X., Drews, F., Ecker, K., Lee, S.S., Grotewold, E., Welch, L.R. 2009. The word landscape of the non-coding segments of the Arabidopsis thaliana genome. *BMC Genomics* 10:463
- **Yilmaz, A.**, Palaniswamy, S., Davuluri, R., Grotewold, E. 2009. Discovery of regulatory networks in plants by linking promoter and transcription factor databases. Proceedings of the Ohio Collaborative Conference on Bioinformatics, IEEE Computer Society Press

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- Lichtenberg, J., Alam, M., Bitterman, T., Drews, F., Ecker, K., Elnitski, L., Evans, S., Grotewold, E., Gu, D., Jacox, E., Kurz, K., Lee, S.S., Liang, X., Majmudar, P.M., Morris, P., Nelson, C., Stockinger, E., Welch, J.D., Wyatt, S., **Yilmaz, A.**, Welch, L.R. 2009. Construction of genomic regulatory encyclopedias: Strategies and case studies. Proceedings of the Ohio Collaborative Conference on Bioinformatics, IEEE Computer Society Press
- The International Brachypodium Initiative. 2010. Genome sequencing and analysis of the model grass *Brachypodium distachyon*. *Nature* 463:763
- **Yilmaz, A.**, Grotewold, E. Components and mechanisms of regulation of gene expression. In: Ladunga, I., ed. *Computational Biology of Transcription Factor Binding*. Vol 674. Totowa, NJ: Humana Press; 2010:23-32.
- **Yilmaz, A.**, Mejia-Guerra, M.K., Kurz, K., Liang, X., Welch, L., Grotewold, E. 2011. AGRIS: the Arabidopsis Gene Regulatory Information Server, an update. *Nucleic Acids Res.* 39(Database issue):D1118-22
- Lichtenberg, J., **Yilmaz, A.**, Kurz, K., Liang, X., Nelson, C., Bitterman, T., Stockinger, E., Grotewold, E., Welch, L.R. Encyclopedias of DNA elements for Plant Genomes. In: Elnitski, L., Piontkivska, H., Welch, L. ed. *Advances in Genomic Sequence Analysis and Pattern Discovery*. Vol 7. Hackensack, NJ: World Scientific Publishing Company; 2011:159-178.
- Cannon, K.S.E., Birkett, S.M., Braun, B.L., Kodavali, S., Jennewein, D.M., **Yilmaz, A.**, Antonescu, V., Antonescu, C., Harper, L.C., Gardiner, J.M., Schaeffer, M.L., Campbell, D.A., Andorf, C.M., Andorf, D., Lisch, D.R., Koch, K.E., McCarty, D.R., Quackenbush, J., Grotewold, E., Lushbough, C.M., Sen, T.Z., Lawrence, C.J. 2011. POPcorn: an online resource providing access to distributed and diverse maize project data. *Int J Plant Genomics* vol. 2011, Article ID 923035, 10 pages. doi:10.1155/2011/923035
- Sharma, A., **Yilmaz, A.**, Marsh, K., Cochrane, A., Boris-Lawrie, K. 2012. Thriving under Stress: Selective Translation of HIV-1 Structural Protein mRNA despite Virus Impairment of Global Translation. *PLoS Path.* 8:e1002612
- Morohashi, K., Casas, I.M., Ferreyra, L.F., Mejia-Guerra, M.K., Pourcel, L., **Yilmaz, A.**, Feller, A., Carvalho, B., Emiliani, J., Rodriguez, E., Pellegrinet, S., McMullen, M., Casati, P., Grotewold, E. 2012. A Genome-Wide Regulatory Framework Identifies Maize Pericarp Color1 Controlled Genes. *Plant Cell* 24:2745-2764
- Bolduc, N., **Yilmaz, A.**, Mejia-Guerra, M. K., Morohashi, K., O'Connor, D., Grotewold, E., Hake, S. 2012. Unraveling the KNOTTED1 regulatory network in maize meristems. *Genes & Dev* 26:1685-90
- Arango, D., Morohashi, K., **Yilmaz, A.**, Kuramochi, K., Parihar, A., Brahimaj, B., Grotewold, E., Doseff, A.I. 2013. Molecular basis for the action of a dietary flavonoid revealed by the comprehensive identification of apigenin human targets. *PNAS* 110(24):E2153-E2162
- Ouma, W.Z., Mejia-Guerra, M.K., Yilmaz, A., Pareja-Tobes, P., Li, W., Doseff, A.I., Grotewold, E. 2015. Important biological information uncovered in previously unaligned reads from chromatin immunoprecipitation experiments (ChIP-Seq). *Scientific Reports*, 5:8635

## AWARDS

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Undergraduate scholarship      Bilkent University, Ankara, Turkey 1996 – 2000

Fellowship      NIH Ruth L. Kirschstein National Research Service Award 5 T32 CA106196-05 from NCI, 2009 – 2011

## REFERENCES

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## MISCELLANEOUS INFO

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Laboratory experience

Experience with wild-type HIV virus production and handling, lentiviral vector production. Molecular biology techniques including cell culture work. Extensive work on RNA.

Computational skills

Proficient at Linux shell. Routinely perform data extraction, comparison, conversion operations at command line.

Intermediate level Perl programming.

Frontend website design with HTML::Mason framework.

MySQL database development, management and web implementation.