

Dr. Emrah Nikerel



Assistant Professor

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Research Interest

Bioinformatics

Biostatistics

Systems Biology

Industrial Biotechnology

Dynamic modeling of metabolic reaction networks

Quantitative metabolomics

Biography

BSc: Chemical Engineering 2001

MSc: (Bio)Chemical Engineering 2003

PhD: Biotechnology 2009

Paper

Tatlı Ö, **Nikerel E.**, Özdemir BS. (2015). Evaluation of metabolite extraction protocols and determination of physiological response to drought stress via reporter metabolites in model plant *Brachypodium distachyon*. *Turkish Journal of Botany*, 39(6), 1042-1050.

Nikerel E., Berkhout J., Hu F., Teusink B., Reinders M., de Ridder D., 'Understanding Regulation of Metabolism through Feasibility Analysis', *PLoS ONE*, 2012, 7, e39396

Nikerel E., van Winden W.A, Verheijen P.J.T., Heijnen J.J, 'Construction of kinetic models for metabolic reaction networks: Lessons learned in analysing short-term stimulus response data', *Mathematical and Computer Modelling of Dynamical Systems*, 2011, 17(3), 243-260.

Book

Çakır ve Nikerel, *Biyolojik ağların modellenmesi*, in *Biyomedikal Mühendisliğin Temelleri*, ISBN: 978-605-133-943-6

Courses

GBE222: Numerical and Statistical methods in Bioengineering applications

GBE326: Experimental techniques in GBE I: Principles

GBE361: Transport Phenomena

BTEC 501: Basic biotechnology

BTEC 555: Biostatistics

Website

<http://bioinformatics.yeditepe.edu.tr/emrah>