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Citizenship: United States.

Positions

- 08/12-Present** Assistant Professor, The University of Kansas Medical Center, Kansas City, KS
Research focus: *Chromatin regulators, the Circadian Clock and Energy Homeostasis.*
- 04/05 – 07/12** Postdoctoral Associate, The Salk Institute for Biological Studies, La Jolla, CA.
Research focus: *Molecular Mechanisms of the Circadian Oscillator.*
- 12/03 – 04/05** Postdoctoral Researcher, The Burnham Institute, La Jolla, CA.
Research focus: *Role of Rheb GTP-ase in the mTOR pathway.*

Education

- 09/98 – 11/03** Ph.D., Molecular Biology, Mayo Graduate School, Rochester, MN.
Research focus: *Functional characterization of the ER71 gene and protein.*
- 09/94 – 05/98** B.Sci., Microbiology, The University of Texas, El Paso, TX.

Education and Training

- 04/05 – 07/12** Postdoctoral Associate, The Salk Institute for Biological Studies, La Jolla, CA.
Research focus: *Molecular Mechanisms of the Circadian Oscillator.*
- 12/03 – 04/05** Postdoctoral Researcher, The Burnham Institute, La Jolla, CA.
Research focus: *Role of Rheb GTP-ase in the mTOR pathway.*
- 09/98 – 11/03** Ph.D., Molecular Biology, Mayo Graduate School, Rochester, MN.
Research focus: *Functional characterization of the ER71 gene and protein.*
- 09/94 – 05/98** B.Sci., Microbiology, The University of Texas, El Paso, TX.

Grants and Awards

- 2013** KCALSI-13-5 Blue Cross Blue Shield Grant
Analysis of Circadian Genes in Autism (13-0029)
- 2013** Lied/K-INBRE
JmjC Lysine Demethylase JARID1a in circadian control of energy metabolism (GM103418)
- 2007** Ruth L. Kruschstein National Research Service Award, NIH.
Temporal Transcriptional Regulation in Liver (1F32GM082083-01).
- 2007** Intramural Innovation Grant.
Development of a high-to-medium throughput siRNA-based circadian assay.
- 2005-2006** Salk Pioneer Fellowship.
Molecular Mechanisms of the Circadian Clock.

Publications

1. **DiTacchio L**, Bowles J, Shin S, Lim DS, Koopman P, Janknecht R. (2012) Transcription factors ER71/ETV2 and SOX9 participate in a positive feedback loop in fetal and adult mouse testis. *J Biol Chem.* 287(28):23657-66.
2. Vollmers C*, Hatori M*, Zarrinpar A, **DiTacchio L***, Bushong E, Gill S, LaBlanc M, Fitzpatrick J, Ellisman M, and Panda S. (2012) Time-restricted feeding prevents adverse effects of a high-fat diet. *Cell Metabolism*, 15(6):848-60. * **co-first authorship**
3. Cho H, Zhao X, Hatori M, Yu RT, Barish GD, Lam MT, Chong LW, **DiTacchio L**, Atkins AR, Glass CK, Liddle C, Auwerx J, Downes M, Panda S, Evans RM. (2012) Regulation of circadian behaviour and metabolism by REV-ERB- α and REV-ERB- β . *Nature*, 485(7396):123-7.
4. **DiTacchio L**, Le HD, Vollmers C, Witcher M, Seacombe J and Panda S. (2011) Histone lysine demethylase JARID1a activates CLOCK-BMAL1 and influences the circadian clock. *Science* 333, 1881-5.
5. Jones MA, Covington MF, **DiTacchio L**, Vollmers C, Panda S, Harmer SL. (2010) Jumonji domain protein JMJD5 functions in both the plant and human circadian systems. *Proc Natl Acad Sci U S A.* 107(50):21623-8.
6. Vollmers C, Gill S, **DiTacchio L**, Pulivarthy SR, Le HD, Panda S. (2009) Time of feeding and the intrinsic circadian clock drive rhythms in hepatic gene expression. *Proc. Natl. Acad. Sci. USA* 106, 21453-8.
7. Lamia KA, Sachdeva UM, **DiTacchio L**, Williams EC, Alvarez JG, Egan DF, Vasquez DS, Juguilon H, Panda S, Shaw RJ, Thompson CB, Evans RM. (2009) AMPK regulates the circadian clock by cryptochrome phosphorylation and degradation. *Science* 326, 437-40.
8. Hitomi K, **DiTacchio L**, Arvai AS, Yamamoto J, Kim ST, Todo T, Tainer JA, Iwai S, Panda S, Getzoff ED. (2009) Functional motifs in the (6-4) photolyase crystal structure make a comparative framework for DNA repair photolyases and clock cryptochromes. *Proc. Natl. Acad. Sci. USA* 106, 6962-7.
9. Hughes ME*, **DiTacchio L***, Hayes KR, Vollmers C, Pulivarthy S, Baggs JE, Panda S, Hogenesch JB. (2009) Harmonics of circadian gene transcription in mammals. *PLoS Genet.* 5, e1000442. * **co-first authorship**
10. Baggs JE, Price TS, **DiTacchio L**, Panda S, Fitzgerald GA, Hogenesch JB. (2009) Network features of the mammalian circadian clock. *PLoS Biol.* 7, e52.
11. Vollmers C, Panda S, **DiTacchio L***. (2008) A high-throughput assay for siRNA-based circadian screens in human U2OS cells. *PLoS One* 3, e3457. ***corresponding author and co-first authorship**
12. Pulivarthy SR, Tanaka N, Welsh DK, **DiTacchio L**, Verma IM, Panda S. (2007) Reciprocity between phase shifts and amplitude changes in the mammalian circadian clock. *Proc. Natl. Acad. Sci. USA* 104, 20356-61.
13. **DiTacchio L**, Panda S. (2006) Systems biology of circadian rhythms: an outlook. *J. Biol. Rhythms* 21, 507-18.
14. Knebel J*, **DiTacchio L***, Janknecht R. (2006) Repression of transcription by TSGA/Jmjd1a, a novel interaction partner of the ETS protein ER71. *J Cell Biochem.* 99, 319-29.* **co-first authorship.**
15. **DiTacchio L**, Janknecht R. (2005) Cloning of the murine ER71 gene (Etsrp71) and initial characterization of its promoter. *Genomics.* 85, 493-502.
16. **DiTacchio L**, Janknecht R. (2002) Functional analysis of the transcription factor ER71 and its activation of the matrix metalloproteinase-1 promoter. *Nucleic Acids Res.* 30, 2972-9.