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Mark J. Jelcic, PhD

Scientist at Fate Therapeutics Inc, San Diego, CA
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Email

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Dissertation

[Uncovering ATP Interactors and Signaling Mechanisms in Inflammation and Wound \(2020\)](#)

Mentor

[Philipp Niethammer, PhD](#)

Start Year

2013

End Year

2020

Education

BA, New York University

Mark studies the mechanisms of nucleotide mediated wound repair.

Fellowships

[Olayan Fellowship](#) (2014-2015)

Publications

[Shen Z, Belcheva KT, Jelcic M, Hui KL, Katikaneni A, Niethammer P. \(2022\) A synergy between mechanosensitive calcium- and membrane-binding mediates tension-sensing by C2-like domains. *Proc Natl Acad Sci U S A*.](#)

[Jelcic M, Wang K, Hui KL, Cai XC, Enyedi B, Luo M, Niethammer P.\(2020\) A Photoclickable ATP-Mimetic Reveals Nucleotide Interactors in the Membrane Proteome. *Cell Chem Biol*. PMID: 32521230 \[Epub ahead of print\]](#)

[Katikaneni A, Jelcic M, Gerlach GF, Ma Y, Overholtzer M, Niethammer P. \(2020\) Lipid peroxidation regulates long-range wound detection through 5-lipoxygenase in zebrafish. *Nat Cell Biol*. \[Epub ahead of print\]](#)

[Jelcic M, Enyedi B, Niethammer P. \(2019\) Quantitative Imaging of Endogenous and Exogenous H₂O₂ Gradients in Live Zebrafish Larvae. *Methods Mol Biol*. 1982 , 283-299.](#)

[Jelcic M, Enyedi B, Xavier JB, Niethammer P. \(2017\) Image-Based Measurement of H₂O₂ Reaction-Diffusion in Wounded Zebrafish Larvae. *Biophys J*. 112, 2011-2018. PMCID: PMC5425381 \[Available on 2018-05-09\]](#)

[Malonis RJ, Fu W, Jelcic MJ, Thompson M, Canter BS, Tsikitis M, Esteva FJ, Sánchez I. \(2017\) RNF11 sequestration of the E3 ligase SMURF2 on membranes antagonizes SMAD7 down-regulation of transforming growth factor \$\beta\$ signaling. *J Biol Chem*. 292, 7435-7451. PMCID: PMC5418044 \[Available on 2018-05-05\]](#)

[Enyedi B, Jelcic M, Niethammer P. \(2016\) The Cell Nucleus Serves as a Mechanotransducer of Tissue Damage-Induced Inflammation. *Cell* 165, 1160-70. PMCID: PMC4875569 \[Available on 2017-05-19\]](#)

[Jelcic M, Niethammer P. \(2015\) Do not scratch that mole! *Trends Immunol*. 36, 503-504.](#)

[View a full listing of Mark J. Jelcic's journal articles.](#)

My Events

- [Uncovering ATP Interactors and Signaling Mechanisms in Inflammation and Wound Healing](#)

