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Rajyalakshmi Meduri

EDUCATION

- 06/2004-05/2007** Bachelor of Science, Mount Carmel College, Bangalore University, India
09/2007-08/2010 Master of Science, Kasturba Medical College, Manipal University, India
12/2010-02/2012 Project Junior Research Fellow, Center for Cellular and Molecular Biology (CCMB), India
03/2012-08/2016 Doctor of Philosophy, University of Wuerzburg, Germany
09/2016-01/2018 Postdoctoral Fellow, University of Wuerzburg, Germany
02/2019-08/2019 Postdoctoral Associate, University of Rochester Medical Center, New York, USA
09/2019-present Postdoctoral Fellow, LSUHSC, Shreveport, Louisiana, USA

FELLOWSHIPS AND AWARDS

- 2016** Graduate School of Life Sciences career development fellowship, University of Wuerzburg.
2012 Graduate School of Life Sciences fellowship supported by a grant of the German Excellence Initiative to University of Wuerzburg for pursuing PhD.
2011 Council of Scientific and Industrial Research Junior Research Fellowship with an all over India rank of 45, Government of India.
2010 'Graduate Aptitude Test in Engineering' qualified as top 8% of the students who appeared the test, Ministry of Human Resource Development, Government of India.
2007 Shikshana Shilpi Shri P. Mallikarjunappa Memorial Gold Medal in Physical Chemistry, Bangalore University, India.
2007 Sixth rank in Bachelor's degree, Bangalore University, India.

PUBLICATIONS

1. Daniele Hasler, **Rajyalakshmi Meduri**, Maciej Bąk, Gerhard Lehmann, Leonhard Heizinger, Xin Wang, Zhi-Tong Li, François M Sement, Astrid Bruckmann, Anne-Catherine Dock-Bregeon, Rainer Merkl, Reinhard Kalb, Eva Grauer, Erdmute Kunstmann, Mihaela Zavolan, Mo-Fang Liu, Utz Fischer, Gunter Meister. 2020. The Alazami Syndrome-associated protein LARP7 guides U6 small nuclear RNA modification and contributes to splicing robustness. *Molecular Cell* 77, 1014-1031.
2. Xin Wang, Zhi-Tong Li, Yue Yan, Penghui Lin, Wei Tang, Daniele Hasler, **Rajyalakshmi Meduri**, Ye Li, Min-Min Hua, Hui-Tao Qi, Di-Hang Lin, Hui-Juan Shi, Jingyi Hui, Jinsong Li, Dangsheng Li, Jian-Hua Yang, Jinzhong Lin, Gunter Meister, Utz Fischer, Mo-Fang Liu. 2020. LARP7-mediated U6 snRNA modification ensures splicing fidelity and spermatogenesis in mice. *Molecular Cell* 77, 999-1013.
3. Yu H Sun, Jiang Zhu, Li Huitong Xie, Ziwei Li, **Rajyalakshmi Meduri**, Xiaopeng Zhu, Chi Song, Chen Chen, Emiliano P Ricci, Zhiping Weng, Xin Zhiguo Li. 2020. Ribosomes guide pachytene piRNA formation on long intergenic piRNA precursors. *Nature Cell Biology*, 1-13.
4. Oliver J Gruss, **Rajyalakshmi Meduri**, Maximilian Schilling, Utz Fischer. 2017. UsnRNP biogenesis: mechanisms and regulation. *Chromosoma* 126 (5), 577-593.

5. Archana B Prusty*, **Rajyalakshmi Meduri***, Bhupesh K Prusty, Jens Vanselow, Andreas Schlosser, Utz Fischer. 2017. Impaired spliceosomal UsnRNP assembly leads to Sm mRNA down-regulation and Sm protein degradation. *Journal of Cell Biology* 216 (8), 2391-2407. *Co-first authors.
6. Vangipurapu Rajanikanth, Anand Kumar Sharma, **Meduri Rajyalakshmi**, Kousik Chandra, Kandala VR Chary, Yogendra Sharma. 2015. Liaison between Myristoylation and Cryptic EF-Hand Motif Confers Ca²⁺ Sensitivity to Neuronal Calcium Sensor-1. *Biochemistry* 54 (4), 1111-1122.
7. Vangipurapu Rajanikanth, Shanti Swaroop Srivastava, Aditya K Singh, **Meduri Rajyalakshmi**, Kousik Chandra, Penmatsa Aravind, Rajan Sankaranarayanan, Yogendra Sharma. 2012. Aggregation-prone near-native intermediate formation during unfolding of a structurally similar nonlenticular $\beta\gamma$ -crystallin domain. *Biochemistry* 51 (43), 8502-8513.