



Itishri Sahu



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Experience

University Clinic Tübingen

Jan 2018 - Present

- Post- Doctoral Researcher under European Research Council Starting Grant of Prof. Michael S D Kormann.

University of Tübingen

Oct 2015- Oct 2017

- NFAT5-sensitive Orai1 expression and store-operated Ca^{2+} entry in megakaryocytes. (Published paper in *FASEB J*, 2017).
- Effect of Kidney Impairment on calcium channels and exchangers in human and mice platelets (Paper under revision)

University of Hyderabad

July 2014-July 2015

- Identification of miRNA regulating cell cycle and maintaining organellar coordination with mitochondria (Published paper in *Experimental Cell Research*, 2018)

Aug 2012- June 2014

- In-Silico analysis of protein-protein interaction involved in Wnt Pathway. Sequence and Structural difference favors a distinct preference of Wnt3a binding with co-receptor LRP6 (Published paper in *Journal of Biomolecular Structure and Dynamics*, 2014.)
- Kinetic modelling of Krebs cycle metabolites intermediates causing pseudo-hypoxia condition.

Objective

To discover new innovative optimized answers to biological challenges collaborating with scientists from different disciplines and to develop new skills in interdisciplinary fields

Skills

- Flow Cytometry and Cell Sorting, FELASA B certified
 - GNU-Octave, C, Perl and R programming. Microsoft Office, Data Analysis.
 - Hardworking, Fast Learner, Adaptable, Highly Responsible, Excellent communication Skills
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Achievements

- 101st rank and 99.3 percentile in Graduate Aptitude Test in Engineering (GATE) 2011.
 - 3rd prize: Technosmec-09 (2009) - National level Technical Conference.
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Education

PhD-Bi-Nationally Supervised Doctoral Degree (DAAD)

Institute of Physiologie I, University of Tübingen and School of Life Sciences, University of Hyderabad. (Thesis Nov 2017)

M.Tech Bioinformatics

Secured CGPA 8.88. June 2012 (1.0 German equivalent)

B.Tech Biotechnology

Secured 74.85% (1st class). June 2010 ((1.0 German equivalent))

Presentations

12th BioBarriers 2018, Poster on Efficacy of Nanoparticles and Chemical modified mRNA in targeting Lung cells.

ASGCT 20th Annual Meeting, 2017 Poster on miRNA in Cell cycle regulation, Nuclear and Mitochondrial communication : A Possibility

IIIrd International Conference PLATELETS-Vascular Biology and Related Diseases, 2016 Poster on Influence of NFAT5 in Calcium signalling of Megakaryocytes and platelets by dehydration.

Volunteer experience or leadership

- Organised Various Technical Symposium and Scientific Conference throughout.
- Designed and Guided 3 Masters students for Master's thesis.
- Taught 2 semesters of Practical course on Basic Bioinformatics course to M.Tech Bioinformatics and Integrated Systems Biology

Publication List

NFAT5-sensitive Orai1 expression and store-operated Ca₂₊ entry in megakaryocytes. Sahu I, Pelzl L, Sukkar B, Fakhri H, Al-Maghout T, Cao H, Hauser S, Gutti R, Gawaz M, Lang F. FASEB J. 2017 PMID:28446591

Systems biology approach to study the role of miRNA in promoter targeting during megakaryopoiesis. Sahu I, Hebalkar R, Kar S, Ts S, Gutti U, Gutti RK. Exp. Cell Res. 2018.

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- 1st Prize in Akshara-08 (2008) - National level Technical Paper presentation Competition.
 - Winner: Transcend-07 (2007) - Technical Paper Presentation Competition.

References

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PMID:29567115

Sequence and structural difference favors a distinct preference of Wnt3a binding with co-receptor LRP6.

Sahu I, Mishra S, Undi R, Kandi R, Gutti U, Gutti RK. J Biomol Struct Dyn. 2015. PMID: 25425204

Sonidegib, a Novel Inhibitor of Suicidal Erythrocyte Death.

Al Mamun Bhuyan A, **Sahu I**, Cao H, Lang F. Cell Physiol Biochem. 2018 PMID 29929201

Role of Na⁺/Ca²⁺ Exchangers in Therapy Resistance of Medulloblastoma Cells.

Pelzl L, Hosseinzadeh Z, Al-Maghout T, Singh Y, **Sahu I**, Bissinger R, Schmidt S, Alkahtani S, Stournaras C, Toulany M, Lang F. Cell Physiol Biochem. 2017 Jul 3 PMID:28683437

Erythropoietin and thrombopoietin mimetics: Natural alternatives to erythrocyte and platelet disorders.

Gutti U, Pasupuleti SR, **Sahu I**, Kotipalli A, Undi RB, Kandi R, Venakata Saladi RG, Gutti RK. Crit Rev Oncol Hematol. 2016 Dec PMID:27931836.

Wnt Signaling: Role in Regulation of Haematopoiesis.

Undi RB, Gutti U, **Sahu I**, Sarvothaman S, Pasupuleti SR, Kandi R, Gutti RK. Indian J Hematol Blood Transfus. 2016 Jun. PMID:27065573

Understanding thrombocytopenia: physiological role of microRNA in survival of neonatal megakaryocytes.

Kandi R, Gutti U, Undi R, **Sahu I**, Gutti RK. J Thromb Thrombolysis. 2015 Oct PMID: 26055579.

miR-196b-mediated translation regulation of mouse insulin2 via the 5'UTR.

Panda AC, **Sahu I**, Kulkarni SD, Martindale JL, Abdelmohsen K, Vindu A, Joseph J, Gorospe M, Seshadri V. PLoS One. 2014 Jul 8. PMID: 25003985

