

## LIST OF AUTHOR'S PUBLICATIONS

### IF Journals

- [A] Veera Venkata Satya Varaprasad Jakka, Jiri Bursa, "Finite Element Simulations of Mechanical Behaviour of Endothelial Cells", **BioMed Research International**, vol. 2021, ArticleID 8847372, 17 pages, 2021. <https://doi.org/10.1155/2021/8847372> (IF = 3.411)
- [B] Veera Venkata Satya Varaprasad Jakka, Jiri Bursa, Impact of physiological loads of arterial wall on nucleus deformation in endothelial cells: A computational study, **Computers in Biology and Medicine**, Volume 143, 2022, 105266, ISSN 0010-4825, <https://doi.org/10.1016/j.combiomed.2022.105266>. (IF = 4.589)

### Peer-review conference papers

- [C] Y.D. Bansod, Veera V.S.V.P. Jakka and J. Bursa. (2018). Bendo-tensegrity model simulates compression test of animal cell. Engineering Mechanics. 10.21495/91-8-45.
- [D] Veera Venkata Satya Varaprasad Jakka, Jiří Burša. Finite element models of mechanical behaviour of endothelial cells. Engineering Mechanics 2020. 2020. p. 222-225. ISBN: 978-80-214-5896-3.

### Conference abstracts

- [E] Veera Venkata Satya Varaprasad Jakka, Jiří Burša. (2019): "Computational Modeling of Mechanical Behavior of Endothelial Cells". 26th Cytoskeletal Club, Vranovská Ves, May 19-21.
- [F] Veera Venkata Satya Varaprasad Jakka, Lucie Orlova and Jiří Burša. (2022). "Computational modelling of cell response to various mechanical stimuli". 27th Congress of the European Society of Biomechanics, June 26-29, Porto, Portugal. (Submitted).