

List of publications – Sreepadmanabh M

1. **Sreepadmanabh M**, Meenakshi Ganesh, Pratibha Sanjenbam, Christina Kurzthaler, Deepa Agashe, and Tapomoy Bhattacharjee - Effect of 3D confinement on bacterial growth dynamics (*in review at Nature Communications*)
2. Nandhu K Babu, **Sreepadmanabh M**, Sayantan Dutta, and Tapomoy Bhattacharjee - Interplay of geometry and mechanics in epithelial wound healing (*in review at Physical Review E*)
3. **Sreepadmanabh M***, Ashitha B Arun*, and Tapomoy Bhattacharjee (* = equal contribution) - Design approaches for 3D cell culture and 3D bioprinting platforms; *Biophysics Reviews* (2023); Impact Factor: 2.90 (2023); selected as a Featured Article; Publication [link](#).
4. **Sreepadmanabh M**, Meenakshi Ganesh, Ramray Bhat, and Tapomoy Bhattacharjee - Jammed microgel growth medium prepared by flash-solidification of agarose for 3D cell culture and 3D bioprinting; *Biomedical Materials* (2023); Impact Factor: 4.10 (2023); Publication [link](#).
5. Tarun Mishra*, **Sreepadmanabh M***, Pavitra Ramdas, Amit K Sahu, Atul Kumar, and Ajit Chande (* = equal contribution) - SARS-CoV2 nucleoprotein enhances the infectivity of lentiviral spike particles; *Frontiers in Cellular and Infection Microbiology* (2021); Impact Factor: 6.07 (2021); Publication [link](#). Media coverage may be found [here](#).
6. Amit K. Sahu, **Sreepadmanabh M**, Mahendra K Rai, and Ajit Chande - SARS-CoV-2: Phylogenetic origins, pathogenesis, modes of transmission, and the potential role of nanotechnology; *VirusDisease* (2021); Impact Factor: 3.39 (2021) Publication [link](#).
7. Aditi Choudhary, Pratibha Madbhagat, **Sreepadmanabh M**, Vipin Bhardwaj, and Ajit Chande - Circular RNA as an additional player in the conflicts between host and virus; *Frontiers in Immunology* (2021); Impact Factor: 8.79 (2021) Publication [link](#).
8. **Sreepadmanabh M**, Amit K. Sahu, and Ajit Chande - COVID-19: Advances in diagnostic tools, treatment strategies, and vaccine development; *Journal of Biosciences* (2020); Impact Factor: 2.79 (2021) Publication [link](#).
9. **Sreepadmanabh M** and Bhushan J. Toley - Investigations into the Cancer Stem Cell Niche using In-Vitro 3-D Tumor Models and Microfluidics; *Biotechnology Advances* (2018); Impact Factor: 17.68 (2021). Publication [link](#).

Manuscripts under preparation – Sreepadmanabh M

1. **Sreepadmanabh M**, Mridul Gautam, Nivedita Hariharan, Dasaradhi Palakodeti, and Tapomoy Bhattacharjee - An oxo-mechanical regulation of cellular morphology in 3D (*in preparation*)
2. Saheli Dey, **Sreepadmanabh M**, Sayan Kundu, Ashitha B Arun, Sandhya Koushika, Shashi Thuttupalli, Madan Rao, Duncan Hewitt, and Tapomoy Bhattacharjee - Nematode motility in granular media (*in preparation*)
3. Abhirami P, **Sreepadmanabh M**, Tapomoy Bhattacharjee, and Amey Redkar - A transparent soil-like 3D matrix for studying plant-fungal interactions (*in preparation*)
4. Nandhu K Babu, **Sreepadmanabh M**, and Tapomoy Bhattacharjee - An emulsion-based oil-in-water biomaterial for 3D cell culture and 3D bioprinting (*in preparation*)