Mapping First to Third Wave Transition of Covid19 Indian Data via Sigmoid Function



Dr. Sabyasachi Ghosh and his research group have attempted to fit the three waves, noticed in the corona virus data of India from 2020 to 2022, by using a simple mathematical model in terms of three Sigmoid functions. Their interesting observation is that 3 virus - (1) Covid19, and its mutated variants (2) Delta, (3) Omicron have their own spreading/infection parameters (0.04, 0.08, 0.12) and half-life times (192, 96, 134 days), which are basically fixing their respective peak values of daily cases and maximum values of cumulative cases. Their model also unfolded the hidden Sigmoid profile of Delta+ virus in between Delta and Omicron, which did not appear as an wave but was responsible for saturation of daily cases for a few months.

