

**Genome based analysis and phenotypic study of
antibiotic resistance and virulence factors in *Klebsiella
pneumoniae***

**A Thesis Submitted to
The Maharaja Sayajirao University of Baroda**

**For the Degree of
Doctor of Philosophy
(Microbiology)**

**Submitted by
Suraj Shukla**

**Guided by
PROF. DEVARSHI GAJJAR**



**Department of Microbiology and Biotechnology Centre
Faculty of Science
The Maharaja Sayajirao University of Baroda
Vadodara-390002, Gujarat, INDIA
September 2024**