

Review

BioMEMS –Advancing the frontiers of Medicine

*Teena James ^{1,2}, * Manu Sebastian Mannoor ^{1,2} and Dentcho V Ivanov ^{1,2}

1 Microelectronics Research Center, 2 Dept of Biomedical Engineering , New Jersey Institute of Technology, Newark, NJ

* Equally contributed as first authors.

E-Mails: tj35@njit.edu (Teena. James); msm28@njit.edu (Manu. S.Mannoor);

Author to whom correspondence should be addressed Teena James; Tel.: +1-973-986-2935

Received: / Accepted: / Published:

Abstract: Biological and medical application of MEMS is currently seen as an area of high potential impact. Integration of biology and microtechnology has resulted in the development of a number of platforms for improving biomedical and pharmaceutical technologies. This review provides a general overview of the applications and the opportunities presented by MEMS in medicine by classifying these platforms according to their applications in the medical field.

Keywords: BioMEMS; Microtechnology; Medical applications.
