

Survey on Small Scale Technology for BME

Introduction

Micron and nano scale technology is of interest because it allows for engineering opportunities and certain abstractions that require many small components to be actualized. For example, the average human neuron is on the order of 10s of microns. This makes design of neural interfaces more complicated because these small objects form densely connected networks. Other biological structures that are crucial for biomedical applications also exist at the nanometer scale, such as DNA (about 6 μm in diameter).

References: