**Supplementary File**

**Biofunctionalized nanodot zirconia based efficient biosensing platform for non-invasive oral cancer detection**

SuveenKumar1,2, Dipti Chauhan2, Venkatesan Renugopalakrishnan3,4, Bansi D. Malhotra1\*

1Nanobioelectronics Laboratory, Department of Biotechnology, Delhi Technological University, Delhi-110042, India.

2Department of Chemistry, University of Delhi, Delhi-110007, India.

3Boston Childern’s Hospital, Harvard Medical School, Bostan, Massachusetts 02115, USA

4Department of Chemistry and Chemical Biology, Northeastern University, Massachusetts 02115, USA

\*Corresponding Author: bansi.malhotra@gmail.com

****

**Figure S1:** Particle size distribution profile of ndZrO2 by using TEM image.

****

**Figure S2:** (a)Scan rate studies (b) magnitude of oxidation and reduction current generated as response of scan rate (mV/s) and (c) is the potential as function of scan rate of APTES/ndZrO2/ITO electrode, (d)Scan rate studies (e) magnitude of oxidation and reduction current generated as response of scan rate (mV/s) and (f) is the potential as function of scan rate of BSA/anti-CYFRA 21-1/APTES/ndZrO2/ITO immunoelectrode.