

Supporting information

For

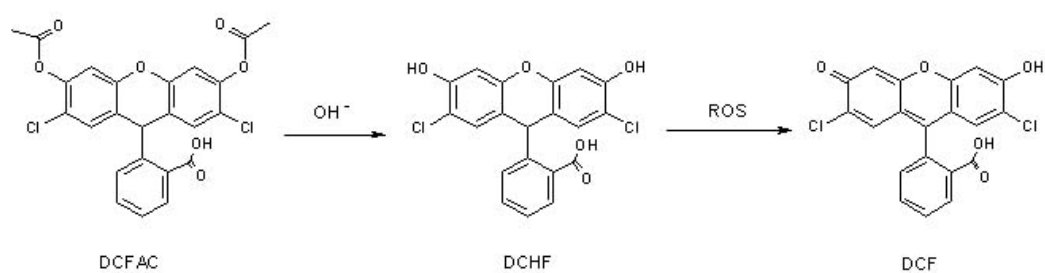
**Sensitive Determination of Reactive Oxygen Species in
Cigarette Smoke Using Microchip Electrophoresis-Localized
Surface Plasmon Resonance Enhanced Fluorescence
Detection**

**Huai-Song Wang¹, Fang-Nan Xiao¹, Zhong-Qiu Li¹, Jun Ouyang¹, Zeng-Qiang Wu¹,
Xing-Hua Xia^{1*} and Guo-Jun Zhou^{2*}**

1. State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and
Chemical Engineering, Nanjing University, Nanjing 210093, China

Fax: +86-25-83686106; Tel: +86-25-83597436; E-mail: xhxia@nju.edu.cn

2. Research Center of Zhejiang Tobacco Industry Co. Ltd., KeHai Road 118, Hangzhou 310024,
China



Scheme S1. Hydrolysis of DCHF-DA and the reaction of DCHF with ROS.

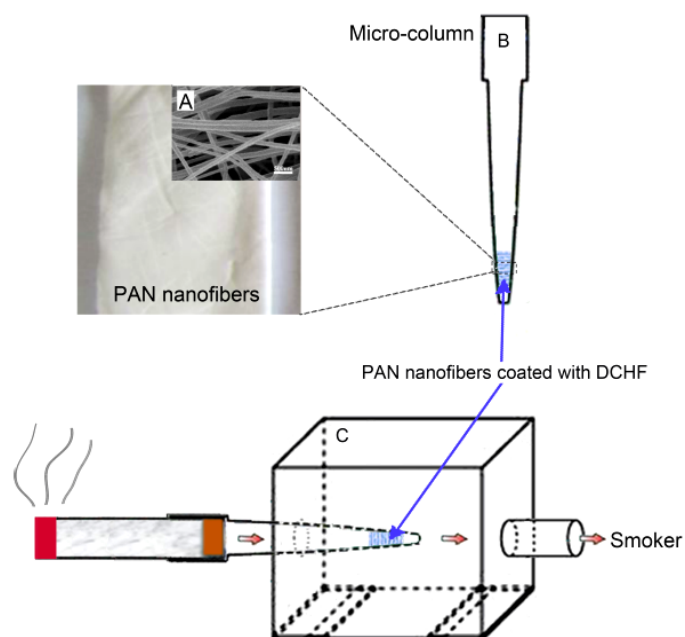


Figure S1. Trapping ROS in the mainstream of CS. A: SEM of PAN nanofibers; B: Polypropylene micro-column with DCHF coated on PAN nanofibers; C: Apparatus used to trap ROS.