Electronic Supplementary Material (ESI) for Analyst


# Microelectrodes with gold nanoparticles and self-assembled monolayers for *in vivo* recording of striatal dopamine

Tien-Chun Tsai[a], Chun-Xian Guo[b,c], Huan-Zhang Han[a], Yu-Ting Li[a], Ying-Zu Huang[d], Chang-Ming Li[b,c], Jia-Jin Jason Chen[a,e*]

[a] *Department of Biomedical Engineering, National Cheng Kung University, Tainan 701, Taiwan*

[b] *School of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore 637457, Singapore*

[c] *Center for Advanced Bionanosystems, Nanyang Technological University, Singapore 637457, Singapore*

[d] *Department of Neurology, Chang Gung Memorial Hospital, Taoyuan 333, Taiwan*

[e] *Medical Device Innovation Center, National Cheng Kung University, Tainan 701, Taiwan*

# Electronic Supplementary Information

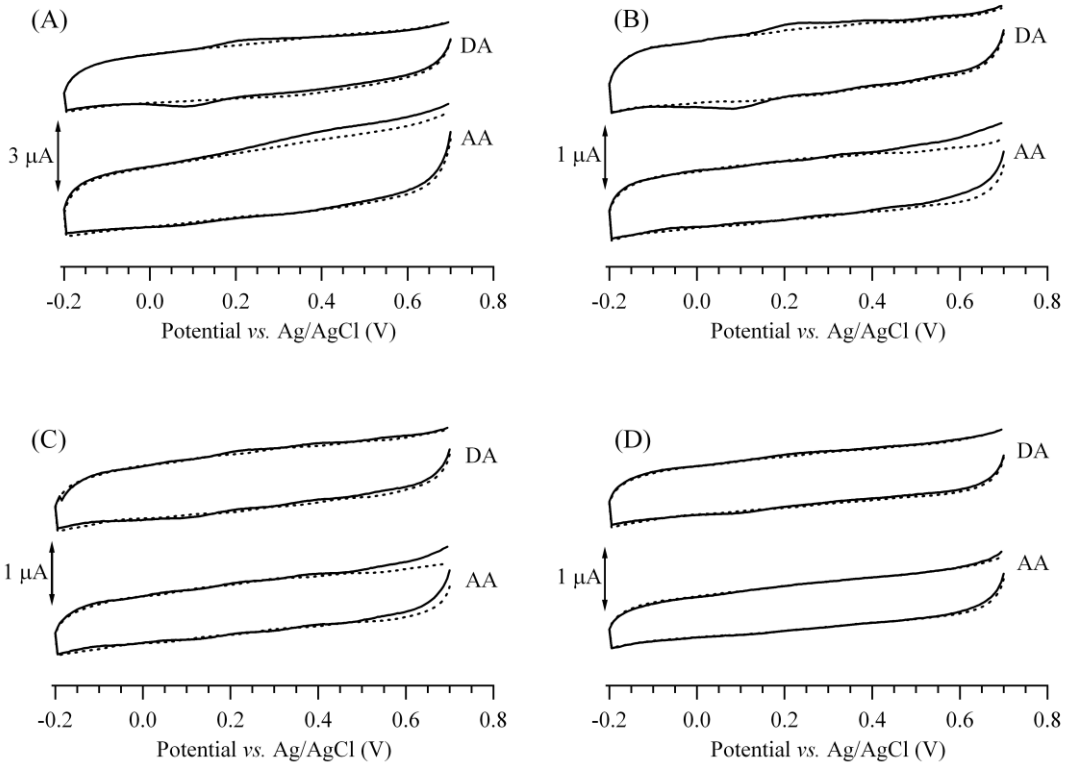


**Fig. S1** Cyclic voltammograms of 10 μM DA and 1 mM AA obtained from (A) Au-NP, (B) Au-NP/MPA, (C) Au-NP/MOA and (D) Au-NP/MUA modified microelectrodes in 0.1 M PB solution (dotted line); scan rate: 10 V $s^{-1}$.