



CCAAT/Enhancer-binding protein delta mediates glioma stem-like cell enrichment and ATP-binding cassette transporter ABCA1 activation for temozolomide resistance in glioblastoma

Shao-Ming Wang Ph.D.

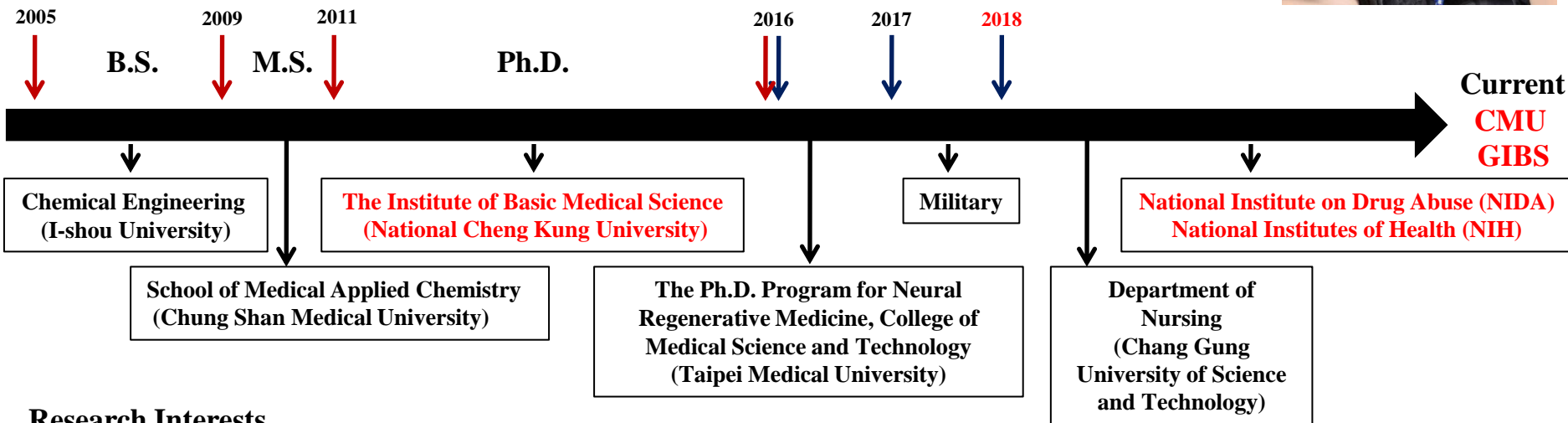
Date: 11/12/2022

Name: Shao-Ming Wang
E-mail: shaoming760721@gmail.com
wangs@mail.cmu.edu.tw



Education

Experience



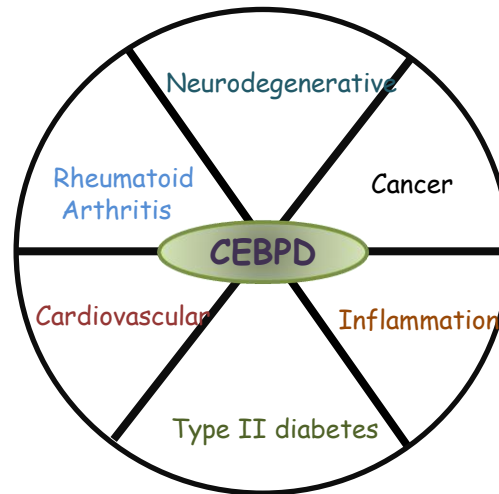
Research Interests

Neurodegenerative diseases, Cancer biology, Neuropathic pain and Drug addiction

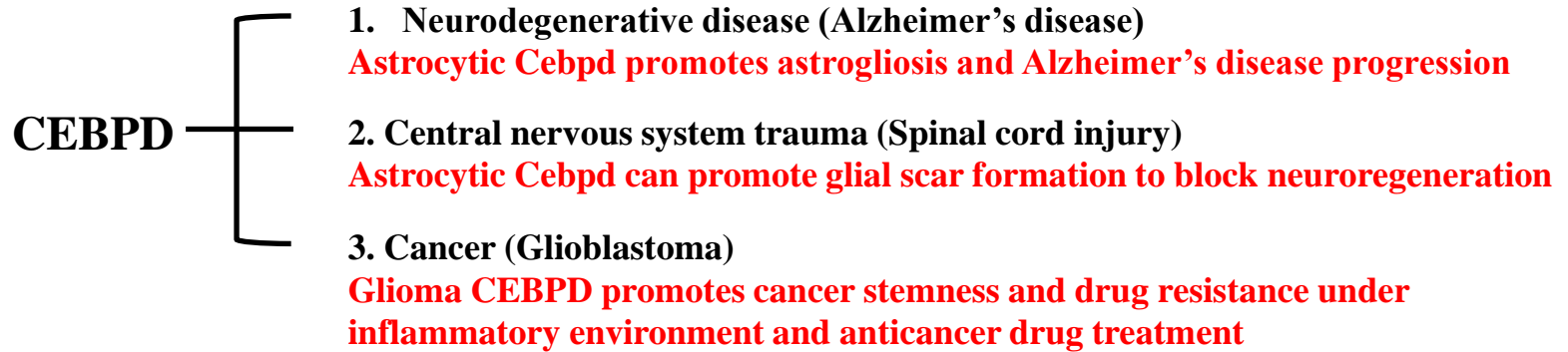
Experimental techniques

Neurological disease animal models, Behavioral tests, Cell culture, Molecular biology and Biochemistry skills

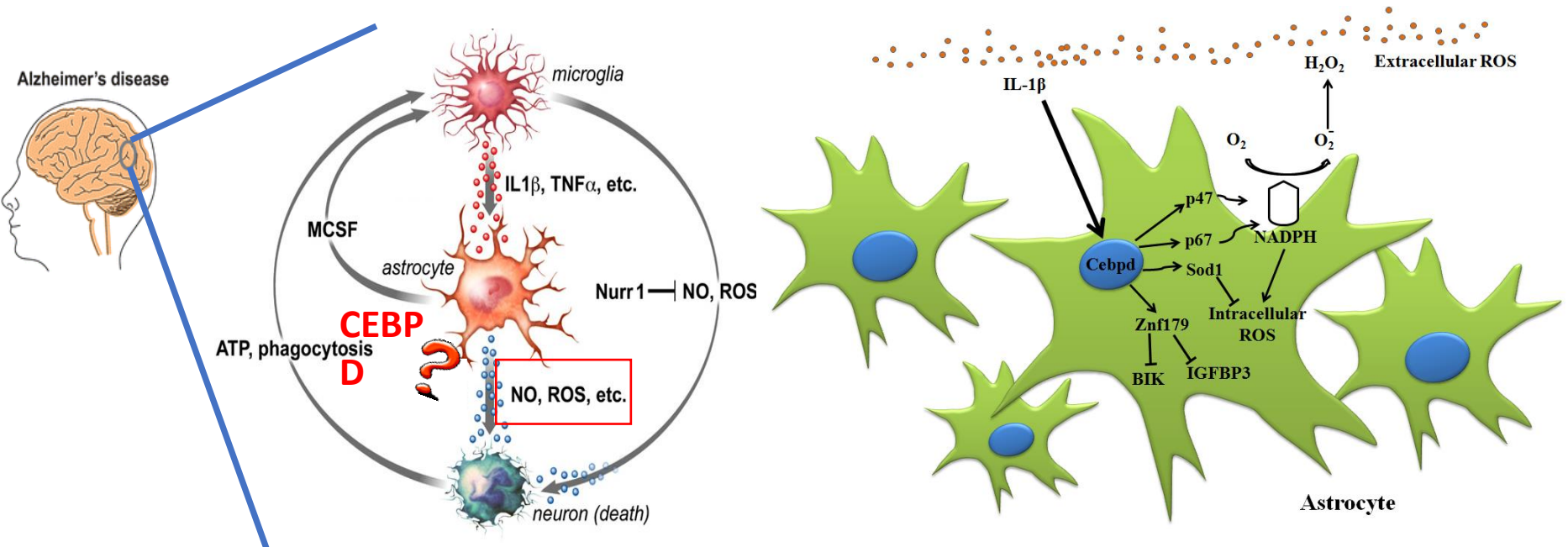
CCAAT/enhancer-binding protein delta (CEBPD)



- CEBPD** —
1. Neurodegenerative disease (Alzheimer's disease)
 2. Central nervous system trauma (Spinal cord injury)
 3. Cancer (Glioblastoma)



CEBPD in Alzheimer's Disease



Mol Neurobiol (2015) 51:370–382
DOI 10.1007/s12035-014-8714-9

Increase of Zinc Finger Protein 179 in Response to CCAAT/Enhancer Binding Protein Delta Conferring an Antiapoptotic Effect in Astrocytes of Alzheimer's Disease

Shao-Ming Wang · Yi-Chao Lee · Chiung-Yuan Ko · Ming-Derg Lai · Ding-Yen Lin · Ping-Chieh Pao · Jhih-Ying Chi · Yu-Wei Hsiao · Tsung-Lin Liu · Ju-Ming Wang

Redox Biology 16 (2018) 104–112



Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/redox



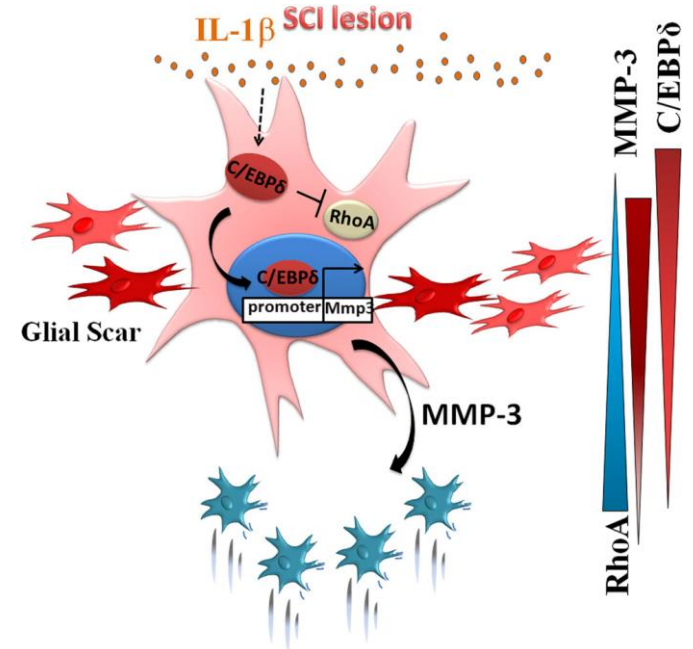
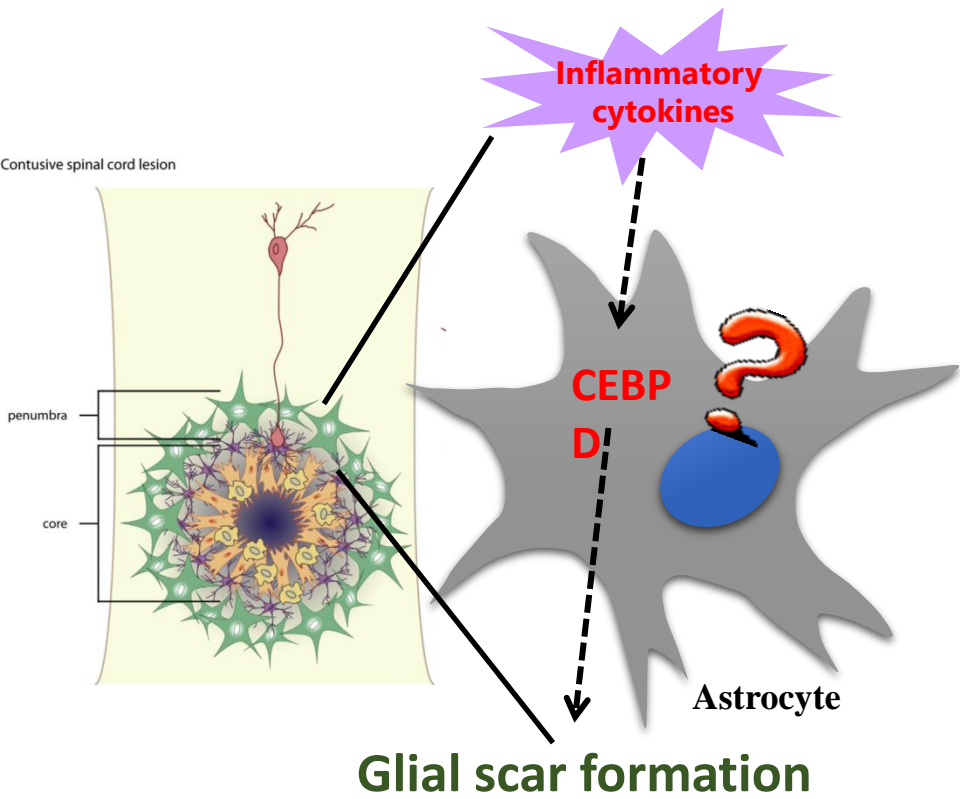
Research paper

Astrocytic CCAAT/Enhancer-binding protein delta contributes to reactive oxygen species formation in neuroinflammation

Shao-Ming Wang^{a,c,f,1}, Sher-Wei Lim^{b,h,i,1}, Ya-Han Wang^b, Hong-Yi Lin^f, Ming-Derg Lai^a, Chiung-Yuan Ko^{c,f,*,2}, Ju-Ming Wang^{a,c,d,i,*,*2}



CEBPD in Spinal Cord Injury



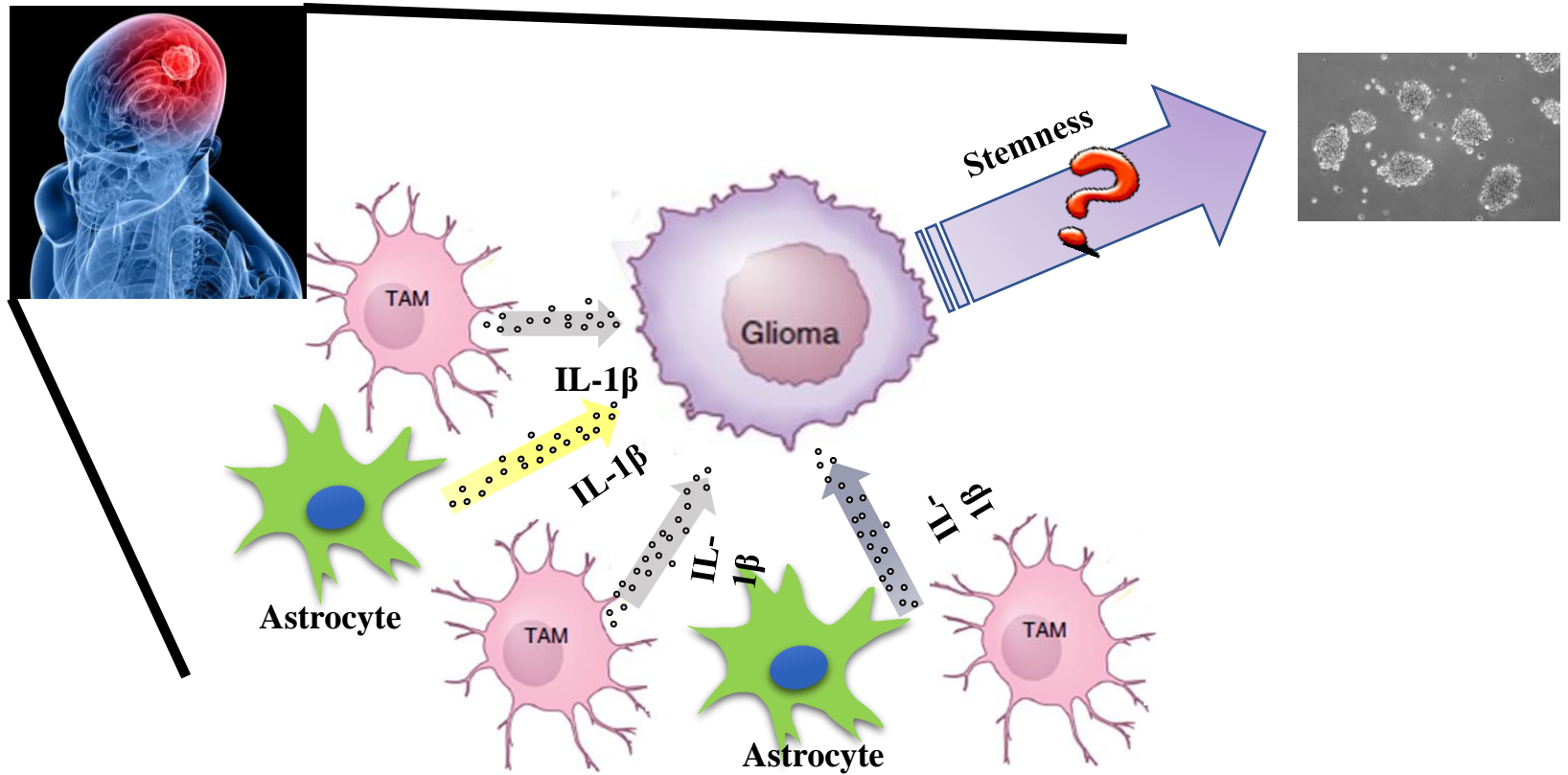
Mol Neurobiol (2016) 53:5912–5927
 DOI 10.1007/s12035-015-9486-6



Astrocytic CCAAT/Enhancer-Binding Protein Delta Contributes to Glial Scar Formation and Impairs Functional Recovery After Spinal Cord Injury

Shao-Ming Wang¹ · Jung-Yu C. Hsu² · Chiung-Yuan Ko^{7,8} · Nai-En Chiu³ · Wai-Ming Kan³ · Ming-Derg Lai¹ · Ju-Ming Wang^{1,4,5,6}

CEBPD in Cancer



CEBPD in Glioma

Wang et al. *Journal of Neuroinflammation* (2019) 16:146
<https://doi.org/10.1186/s12974-019-1535-z> Journal of Neuroinflammation

RESEARCH **Open Access**

CCAAT/enhancer-binding protein delta regulates the stemness of glioma stem-like cells through activating PDGFA expression upon inflammatory stimulation

Shao-Ming Wang^{1†}, Hong-Yi Lin^{2†}, Yen-Lin Chen³, Tsung-I Hsu^{1,4,5}, Jian-Ying Chuang^{1,5}, Tzu-Jen Kao¹ and Chiung-Yuan Ko^{1,5*}

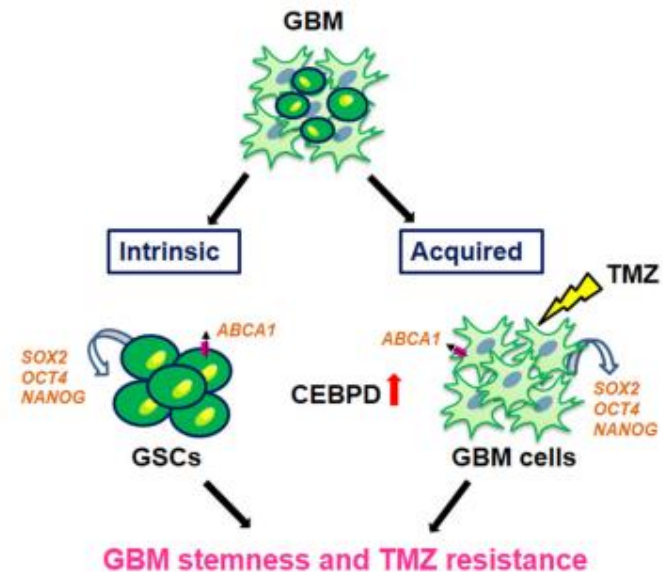
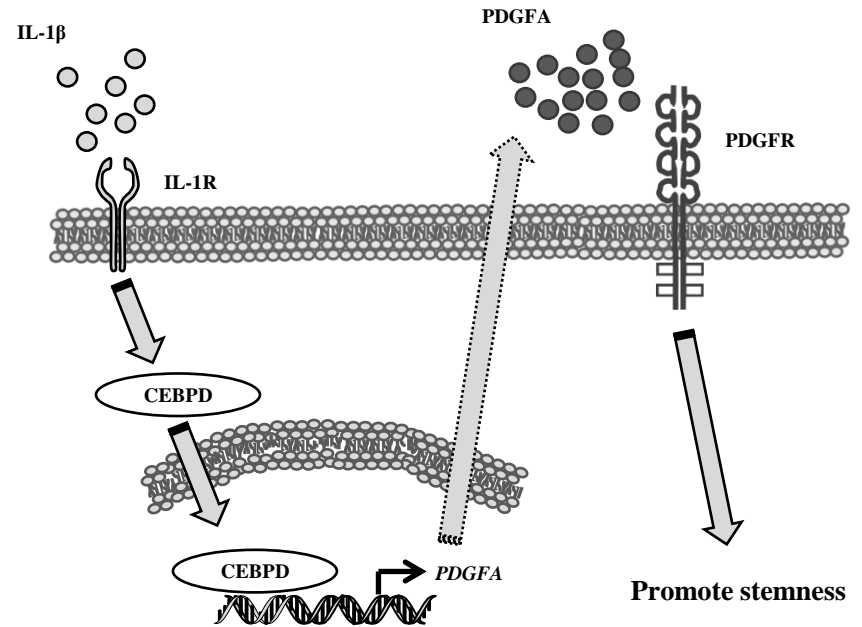
[Check for updates](#)

Wang et al. *Cell Death Discovery* (2021) 7:8
<https://doi.org/10.1038/s41420-020-00399-4> Cell Death Discovery

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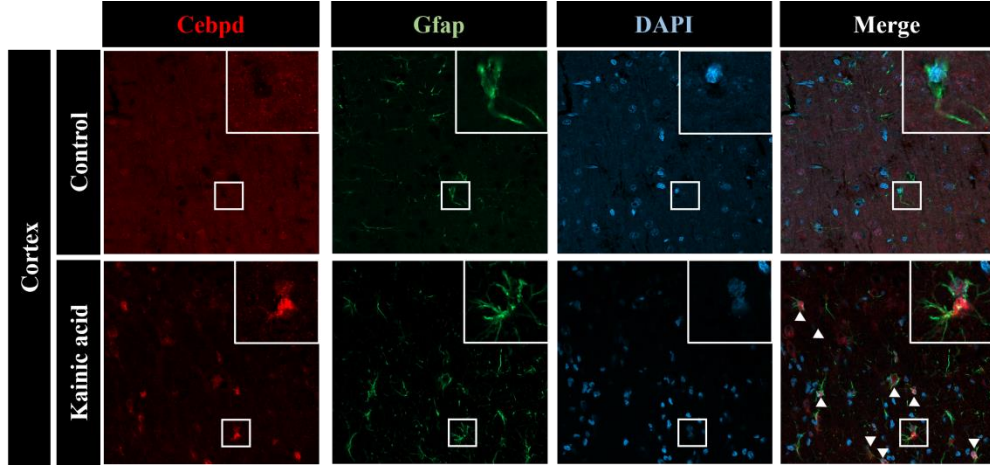
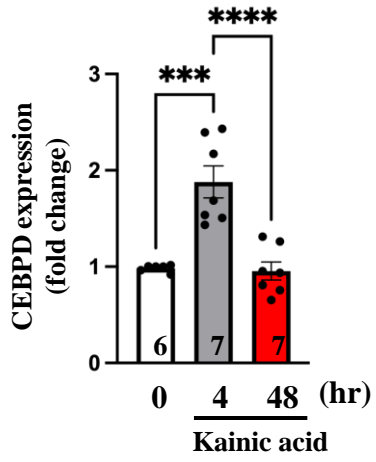
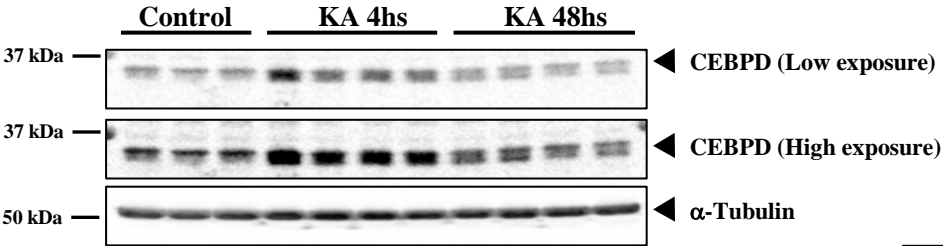
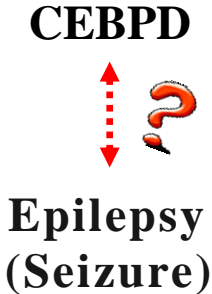
CCAAT/Enhancer-binding protein delta mediates glioma stem-like cell enrichment and ATP-binding cassette transporter ABCA1 activation for temozolomide resistance in glioblastoma

Shao-Ming Wang^{1,2}, Wen-Chi Lin³, Hong-Yi Lin⁴, Yen-Lin Chen⁵, Chiung-Yuan Ko^{2,4,6,7} and Ju-Ming Wang^{3,8,9,10}



TMZ: Temozolomide

Future works





National Institute
on Drug Abuse



中華民國兒童神經精神科學 勵翔獎

Young Investigator Award for Pediatric Neuropsychiatric Science

Thank you for listening

