



Hong Ding

PhD. And Professor

Date of Birth: NOV. 6th, 1964

About me

1. Wuhan worldner united pharmaceuticals Ltd. Co.— Chairman of the Board
main products: Smart gel formulation for colpitis; Hydrocolloid bio-dressing for wound aid;
Smart enema for IBD; Pine needle anthocyanins capsule for Hypertension;
2. School of Pharmaceutical science , Wuhan University—Professor and Ph.D. supervisor

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Education

China Pharmaceutical University B.S. (Bachelor of Science) 1982.9—1986.6

Research area (Pharmacology and Formulation): Pharmacological Mechanisms of Different Drugs on depression.

School of Medicine, Wuhan University M.S. (Master of Science) 1988.9—1991.6

Research area (biomedical engineering)

Development of analysis Instrument about digitized diagnostic technique for depression

School of Medicine, Wuhan University Ph.D. (internal medicine) 1998.9—2001,6

Research area (Pharmacology and pharmacchemistry) Synthesis of glycyrrhetic acid derivatives and Study of its' effects and mechanisms on cancer.

School of Medicine, West Virginia University Post doctorate 2003,4—2005,8

Research area (Pharmacology) Drug Screen of anticancer.

Work Experience

Department of forensic pathology, Tongji Medical School. 1986,6-1988,6

Worked for forensic toxicological analysis as an assistant.

Department of pharmacy Wuhan Hospital 1991,6-1994,6

Worked for drug rational use as clinical pharmacist

Department of pharmacology Hubei medical university 1994,6-2001,6

Worked for pharmacology research as professor.

Department of pharmacology School of Pharmaceutical science , Wuhan University 2001,6-

Worked for pharmacology research as professor and Ph.D. supervisor

Honors

"China pharmacology prize" Servier pharmaceuticals Limited (France) award. 2001

"The first-class reward of science of technology" coming from Hubei Province 2000

Research Interests

1. Study of new treatment drugs for stroke and Alzheimer's disease :

We have obtained some compounds of amino acid derivatives, its can reduce the mortality rate of **Edaravone** in treatment of acute cerebral infarction from 50% to 10%, and LD50> 5g/kg, Edaravone LD50 0.7g/kg.

Its can improve the spatial learning and memory of vascular dementia rats .

Its mechanism may be selective NR2a agonist.

2. Study of new treatment drugs for cancer:

We have obtained some compounds of glycyrrhetic acid derivatives , its' inhibition effect on colon cancer are the same as **paclitaxel**, and toxicity obviously reduced.

Its mechanism may be induce apoptosis mediated by estrogen receptor.

3. Study of new treatment drugs for Hypertension :

We have obtained some compounds of flavone derivatives, its can reduce Hypertension of rats induced by L-NAME. Its' effect are the same as the **Nifedipine**, but the side effects are lower.

Its mechanism may be protect vascular endothelial cell.

4. Study of new treatment drugs for immune diseases :

We have obtained some compounds of oligose from plants, its can reduce the inflammatory reaction of IBD rats and rheumatoid arthritis rats . Its' effect are the same as the **dexamethasone**, but the side effects are lower.

Its mechanism may be protect inhibit iNOS.

5. Study of Screen printing electrode for determination of drug blood concentration and 5-HT, DA, NE blood concentration

This technology used to be rational use of drug and auxiliary diagnosis of psychosis.

Publication

1. Wu S, Yue Y, Li J, • **Hong Ding***. . Procyanidin B2 attenuates neurological deficits and blood–brain barrier disruption in a rat model of cerebral ischemia[J]. Molecular nutrition & food research, 2015,59(10):1930-41.
2. Wang Y, Wang S, Tao L • **Hong Ding***. . A disposable electrochemical sensor for simultaneous determination of norepinephrine and serotonin in rat cerebrospinal fluid based on MWNTs-ZnO/chitosan composites modified screen-printed electrode[J]. Biosensors and Bioelectronics, 2015, 65: 31-38.
3. Yue Y, Wu S, Li Z , • **Hong Ding***. . Wild jujube polysaccharides protect against experimental inflammatory bowel disease by enabling enhanced intestinal barrier function[J]. Food & function, 2015, 6(8): 2568-2577.
4. Jianyuan Wu • Qingdi Quentin Li • Huiping Zhou • Yinying Lu • Jueli M. Li • Yao Ma • Li Wang • Tingting Fu • Xingjiang Gong Michael Weintraub • Shuangchan Wu • **Hong Ding***. Selective tumor cell killing by triptolide in p53 wild-type and p53mutant ovarian carcinomas. Med Oncol (2014) 31:14
5. Tao L, Xie J, • **Hong Ding***. Protective effects of aloe-emodin on scopolamine-induced memory impairment in mice and H2O2-induced cytotoxicity in PC12 cells. Bioorg Med Chem Lett. 2014, 22;24(23):5385-5389.
6. Yue Y, Wu S, Zhang H, • **Hong Ding***. . Characterization and hepatoprotective effect of polysaccharides from *Ziziphus jujuba* Mill. var. *spinosa* (Bunge) Hu ex HF Chou sarcocarp[J]. Food and Chemical Toxicology, 2014, 74: 76-84.
7. Yuting Wang, Jianmei Xie, Li Tao, Hui Tian, Shi Wang, **Hong Ding***. Simultaneous electrochemical determination of epirubicin and methotrexate in human blood using a disposable electrode modified with nano-Au/MWNTs-AnO composites. Sensors and Actuator B : chemical. 2014, 204: 360-367

Publication

8. Wu S, Yue Y, Tian H, **Hong Ding**. *Tramiprosate protects neurons against ischemic stroke by disrupting the interaction between PSD95 and nNOS[J]. *Neuropharmacology*, 2014, 83: 107-117.
9. Wu S, Yue Y, Tian H, **Hong Ding**. * Carthamus red from Carthamus tinctorius L. exerts antioxidant and hepatoprotective effect against CCl₄-induced liver damage in rats via the Nrf2 pathway[J]. *Journal of ethnopharmacology*, 2013, 148: 570–578.
10. Cao X, Wu S, Yue Y, **Hong Ding***. A high-throughput method for the simultaneous determination of multiple mycotoxins in human and laboratory animal biological fluids and tissues by PLE and HPLC–MS/MS[J]. *Journal of Chromatography B*, 2013, 942: 113-125.
11. Li Xiaofei, Wu Shangchan, **Dinghong**. Safflower Red CCl₄ on mice with acute liver injury. [J]. *Food Technology*, 2013, 29(7): 1569-1573.
12. Taoli Wu, Shuangchan **Ding Hong**. Eugenol study on cerebral ischemia / reperfusion neuroprotection[J]. *Chinese Pharmacological Bulletin*, 2013, 29(8): 1146-1150.
13. Tian Hui, Wang Yuting **Ding Hong**. Establish a new model of obese mice.[J]. *Chinese Pharmacological Bulletin*, 2013, 29(7): 1016-1018.
14. Wang yuting, Tianhui **Ding Hong**. Preparation of printing electrodes and zinc oxide MWCNTs nanocomposites modified and applied in the determination of norepinephrine. [J]. *Instrumental Analysis*, 2013, 32(8): 953-957.
15. Shi Wang, Ziwei Huang, Min Liu, Ying Liu, **Hong Ding**. Application of Disposable Screen-printed Electrode as an Epirubicin Sensor and Relation among Whole Blood and Tissue Concentrations of Epirubicin (*Int. J. Electrochem. Sci.*, 7(2012)1543-1555)
16. Shi Wang, Ziwei Huang, Min Liu, **Hong Ding**. A disposable electrochemical sensor for the direct detection of Doxorubicin in whole blood (*Sensor Lett.*, 10(2012), 117-121)
- Shi Wang, Zheqiong Qi, Hongke Huang, **Hong Ding***, Electrochemical determination of methotrexate at a disposable multi-walled carbon nanotube modified screen-printed electrode and its application studies (*Analytical Letters*, 45(2012), 1658-1669)
17. Shi Wang, Shanshan Fu, **Hong Ding***, Determination of 5-fluorouracil using disposable gold nanoparticles modified screen-printed electrode (*Sensor Lett.*, 10(2012), 973-977)
18. Jin Xiang a, Guihong Sun b,†, Yongxin Muc, Hui Liu c, Ying Liu a, Fang Yang b, Jian Xu b, **Hong Ding*** a,†. Ritonavir stimulates foam cell formation by activating PKC. *Chemico-Biological Interactions* 194 (2011) 127–133.
19. Min Liu, Jiajie Hu, Tian Ma, Shi Wang, **Hong Ding***. Application of a disposable screen-printed electrode to depression diagnosis for laboratory rats based on blood serotonin detection. *Analytical sciences*. 2011, 27: 839-844 (IDS : 8130I)
20. Zhiping Huang a,b, Lina Zhanga,* , Xiaobo Duanc, Zongquan Liaoc, **Hong Ding****, Peter C.K. 3 Q1 Cheungd. Novel highly branched water-soluble heteropolysaccharides as immunopotentiators to inhibit S-180 tumor cell growth in BALB/c mice. *Carbohydrate Polymers* 22 August (2012)
21. YING LIU^{1,2,*}, SONGLIN XU^{2,*}, LESHENG TENG^{3,2}, BRYANT YUNG², JING ZHU², **HONG DING**^{*1} and ROBERT J. LEE². Synthesis and Evaluation of a Novel Lipophilic Folate Receptor Targeting Ligand. *ANTICANCER RESEARCH* 31: 1521-1526 (2011).
22. Liu Y, Xiang J, Liu M, Wang S, Lee R, **Ding H***. Protective effects of Glycyrrhizic acid by rectal treatment on a TNBS-induced rat colitis model. *J Pharm Pharmacol*. 2011 Mar;63(3):439-46.
23. Xu S, Liu Y, Tai HC, Zhu J, **Ding H***, Lee RJ. Synthesis and evaluation of transferrin (Tf) conjugated liposomes via Staudinger ligation. *Int J Pharm*. 2011 Feb 14;404(1-2):205-10.
24. Liu M, Xiang J, Zhou J, **Ding H***. A disposable amperometric sensor for rapid detection of serotonin in the blood and brain of the depressed mice based on Nafion membrane-coated colloidal gold screen-printed electrode. *Journal of electroanalytical Chemistry*. 2010; 640: 1-7
25. Xiang J, Yu C, Yang F, Yang L, **Ding H***. Conformation-activity studies on the interaction of berberine with acetylcholinesterase: Physical chemistry approach. *Progress in Natural Science*. 2009;19(12):1721-5.

Patents

1. Glycine - L - cysteine - tramiprosate peptides and its application (GL201210534121.5). **Ding Hong**, Wu huangchan, YueYuan.
2. The neuroprotection of tramiprosate and its derivative against ischemic stroke (GL201210287615.8). **Ding Hong**, Wu Shuangchan, YueYuan.
3. 2. A polysaccharide composite and its preparation method and USES (GL201210090100.9). **Ding Hong**, YueYuan, Wu Shuangchan, Yang Ge.
4. A chromatographic column (GL201320327863.0). **Ding Hong**, YueYuan, Wu Shuangchan, Li Jian
5. Nanospheres DNA amplification technology piezoelectric biosensor for detection of trace amounts of DNA method(ZL 02 1 15771.5) zhang sheng long Dinghong。 2004,12
6. Dual amplification technology electrochemical quartz crystal microbalance ultra trace DNA detection method.(ZL 02 1 15772.3) zhang sheng long Dinghong。 2005,2
7. Nano aloe and its preparation method and use. (ZL 02 1 15733.2). Ding hong
8. ZL 02 1 15734.0 Aloe products and its preparation method. Ding Hong
9. ZL 004 1 0005778.8 lintravenous high concentration of water-soluble vitamins and preparation method and use.Ding Hong
10. ZL 03 1 28254.7 A method for preparing a diagnostic kit for SARS. Dinghong, 2006,6
11. ZL 04 1 00187.7 Angelica polysaccharide combination preparation method and uses. Ding Hong , 2005,6,18
12. ZL 20051019875.7 SHL for the preparation of the treatment of atherosclerosis medicine. Ding Hong , 2008,8,13
13. ZL 200910063463 Screen-printed electrodes used in the determination of serotonin. Dinghong
14. ZL 200920085732.X Composite chitosan dressing. Ding Hong
15. ZL 200810196927.1 Chitosan biofilm enhancer uses.
16. ZL 200810047805.6 High bioadhesive thermosensitive hydrogel and preparation method and use
17. ZL 200810047995.1 Glycyrrhizic acid, glycyrrhetic acid or a salt or derivative thereof thermosensitive hydrogel preparation method and application
18. ZL 200610018369.0 Licorice ammonium salt in the manufacture of a medicament for the treatment of inflammatory bowel diseases

Research projects

1. Anti-tumor medicine studies, the projects from Renfu Pharmaceutical Group, 2015 700,000.00
2. Study on preparation of anti-anal itching hospital. Mayinglong Pharmaceutical Group, 2015, 260,000.00
3. Resistant strains of TB drug development. Chang ao Pharmaceutical Group. 2014, 2,000,000.00
4. Rho kinase studied as a new target in inflammatory bowel disease, National Natural Science Foundation, 2013, 1600000.00
5. Because card phosphonate anti-cancer bone metastasis research. . Chang ao Pharmaceutical Group. 2013, 2,000,000.00
6. Development of PTEN enzyme inhibitor class of drugs based on a stroke. ZIFu Pharmaceutical Group. 2013, 4,000,000.00
7. Rapid Determination of industry research system 5-HT blood levels. National Natural Science Foundation, 2012, 1,000,000.00
8. Diammonium glycyrrhizinate enema anti-inflammatory bowel disease pre-clinical studies. Hubei Provence Natural Science Foundation, 2012, 200,000.00
9. Platform of anti-atherogenic hardening in vitro screening. Hubei Provence Natural Science Foundation, 2012, 200,000.00
10. The biological signification of benzene resulting in leucocythemia”, National Natural Science Fund, 2011, 200,000.00
11. Research of Shuanghuanglian adjuvant therapy anti- AIDS National Natural Science Fund, 2011, 200,000.00
12. Effect of trace elements on the capacity of drug metabolism in fetal liver”. The funds came from Hubei Natural science Foundation, 2010, 100,000.00