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EDUCATION

Major of Clinical Medicine, Wannan Medical College, Anhui, China. Degree of Bachelor of Medicine	1987
Major of Surgery, Shanghai Medical University, Shanghai, China Degree of Master of Science	1992

PUBLICATIONS AND PAPERS

Papers

Jiang XP, Catherine Baucom, Robert L. Elliott. Mitochondrial Toxicity of Azithromycin Results in Aerobic Glycolysis and DNA Damage of Human Mammary Epithelia and Fibroblasts. *Antibiotics* 2019;8:110. doi:10.3390/antibiotics8030110

Robert L. Elliott, Xian-Peng Jiang. The adverse effect of gentamicin on cell metabolism in three cultured mammary cell lines: "Are cell culture data skewed?" *PLOS ONE* <https://doi.org/10.1371/journal.pone.0214586> April 1, 2019

Jiang XP, Elliott RL. Decreased iron in cancer cells and their microenvironment improves cytolysis of breast cancer cells by natural killer cells. *Anticancer Res* 2017;37:2297-2305. DOI:10.21873/anticancerres.11567

Jiang XP, Elliott RL, Head JF. Normal mitochondrial transplantation may be useful for the treatment of mitochondria-associated neurodegenerative diseases: evidences *in vitro*. *J Neuromuscular Disease* 2016;3(Suppl. 1):S215.

Elliott RL, Jiang XP, Head JF. Mitochondria and neurodegeneration "Could mitochondrial organelle transfer be a cellular biotherapy for neurodegenerative diseases?" *SOJ Biochemistry* 2016. DOI: <http://dx.doi.org/10.15226/2376-4589/2/1/00108>

Jiang XP, Elliott RL, Head JF. Exogenous normal mammary epithelial mitochondria suppress glycolytic metabolism and glucose uptake of human breast cancer cells. *Breast Cancer Res. Treat.* 2015;153:519-29. DOI 10.1007/s10549-015-3583-0.

Elliott RL, Jiang XP, Head JF. Want to Cure Cancer? Then Revisit the Past; "Warburg Was Correct", Cancer Is a Metabolic Disease. *Journal of Cancer Therapy* 2014; 5:297-305.

Elliott RL, Jiang XP, Head JF. Mitochondria organelle transplantation: introduction of normal epithelial mitochondria into human cancer cells inhibits proliferation and increases drug sensitivity. *Breast Cancer Res Treat.* 2012;136(2):347-54

Jiang XP, Yang DC, Elliott RL and Head JF. Down-regulation of expression of interleukin-6 and its receptor results in growth inhibition of MCF-7 breast cancer cells. *Anticancer Res* 2011;31:2899-2906.

Elliott RL, Jiang XP, Phillips JT, Barnett BG and Head JF. Human leukocyte antigen G expression in breast cancer: Role in immunosuppression. *Cancer Biotherapy and Radiopharmaceuticals* 2011;26(2):153-157.

Jiang XP, Elliott RL, and Head JF. Manipulation of iron transporter genes results in the suppression of human and mouse mammary adenocarcinomas. *Anticancer Res* 2010;30:759-766.

Jiang XP, Wang F, Yang DC, Head JF and Elliott RL. Induction of apoptosis by iron depletion in the human breast cancer MCF-7 cell line and 13762NF rat mammary adenocarcinoma *in vivo*. *Anticancer Res* 2002;22:2685-2692.

Yang DC, Jiang XP, Elliott RL and Head JF. Antisense ferritin oligonucleotides inhibit growth and induce apoptosis in human breast carcinoma cells. *Anticancer Research* 2002;22:1513-24.

Yang DC, XP Jiang, RL Elliott and Head JF. Inhibition of growth of human breast carcinoma cells by an antisense oligonucleotide targeted to transferrin receptor gene. *Anticancer Research* 2001; 21: 1177-88.

Jiang, XP, Yang DC, Elliott RL and Head JF. Vaccination with a mixed vaccine of autogenous and allogeneic breast cancer cells and tumor associated antigens CA15-3, CEA and CA125 – results in immune and clinical responses in breast cancer patients. *Cancer Biotherapy and Radiopharmaceuticals* 2000;15(5):495-505.

Jiang, XP, DC Yang, Elliott RL and Head JF. Reduction in serum IL-6 after vaccination of breast cancer patients with tumor-associated antigens is related to estrogen receptor status. *Cytokine* 2000;12(5):458-65.

Wang F, Jiang XP, Yang DC, Elliott RL and Head JF. Doxorubicin-gallium-transferrin conjugate overcomes multidrug resistance: evidence for drug accumulation in the nucleus of drug resistant MCF-7/ADR cells. *Anticancer Research* 2000;20:799-808.

Jiang, XP, et al. The mRNA levels of nm23 in murine ascites hepatoma (H₂₂) cells with different lymphatic metastatic potential. *J Cancer Res Clin Oncol* 1996;122:55-58.

Jiang, XP, et al. The distribution and image of radio-iodinated *Ricinus communis* agglutinin (RCA1) in nude mice bearing human hepatocellular carcinoma. *Shanghai Medical University Xue Bao* 1995;6:50. (in Chi)

Jiang, XP, et al. Identification of a new nm23 gene, nm23-H3b. *Chinese J Cancer Res* 1994;6:184.

Jiang XP, et al. Cloning and sequencing of nm23-H3b gene, a new gene identified to nm23. *Zhonghua Yi Xue Za Zhi* 1994;74:670. (in Chi)

Jiang XP, et al. Tumor metastasis-suppressor gene ----NM23. *Tumor* 1994;14:123. (in Chi)

Jiang XP, et al. A quantitative assessment by flow cytometry of ferritin, ferritin-H and L subunits in hepatocellular carcinoma and adjacent non-neoplastic liver. *Tumor* 1993;13:24. (in Chi)

Xia XL, XD Zhou, ZY Tang, XP Jiang and Y Cheng. The distribution and quantity of ferritin, H and L subunits in HCC using immunochemistry, FCM and ELISA. *Zhonghua Xiao Hua Za Zhi* 1993;13:327. (in Chi).

Books:

Jiang XP: The relationship between the expression of tumor metastasis-suppressor gene, nm23 and TIMP2, and the prognoses of human hepatocellular carcinoma. In *Primary Liver Cancer* (Tang ZY, eds). Shanghai Scientific Press, Shanghai, 1998, pp512-16.

Meeting abstracts:

Jiang XP, Elliott RL. Antibiotic usage may impair the accuracy of 18F-fluorodeoxyglucose positron-emission tomography (FDG-PET): in vitro evidence. In *World Molecular Imaging Congress, September 4-7, 2019*, Abstract#P078.

Jiang XP, Benoit A, Jiang T and Elliott RL. Antibiotics suppress growth of breast cancer cells and synergize cytotoxicity of 2-Deoxy-D-glucose: treating cancer like an infection. In *American Association for Cancer Research Annual Meeting 2019*, abstract #3600.

Elliott RL, Jiang XP. Antibiotics induce mitochondrial dysfunction, DNA damage and aerobic glycolysis of human mammary epithelia and fibroblast. In *American Association for Cancer Research Annual Meeting 2019*, abstract #3795.

Elliott RL, Jiang XP. Iron and HLA-G: Neglected immunosuppressive molecules in the tumor microenvironment. Abstract #P483, Society for Immunotherapy of Cancer (SITC) 33rd Annual Meeting, November 7-11, 2018 in Washington,

Elliott RL, Jiang XP. Antibiotics induced mitochondrial toxicity: “a neglected factor possibly contributing to tumorigenesis and neurodegeneration” Abstract #339, Microscopy and Microanalysis. August 5-9, Baltimore, MD

Elliott RL, Jiang XP. Tumor microenvironment immunosuppression: role of neglected molecules iron and HLA-G. Abstract #B76, AACR Tumor Immunology and Immunotherapy. October 1-4, 2017 in Boston, MA

Elliott RL, Jiang XP and Head JF. Exogenous normal mitochondria are potential organelles for cell-based cancer therapy. Cell symposia: multifaceted mitochondria. July 19-21, 2015 in Chicago, abstract #P2.001.

Elliott RL, Jiang XP and Head JF. Glycolytic cancer cell metabolism suppressed by transplantation of exogenous normal mitochondria into human breast cancer cells. AACR Metabolism and Cancer. June 7-10, 2015 in Bellevue, Washington, USA.

Jiang XP, Phillips J, Head JF, Barnett BG, and Elliott RL. Upregulation of the expression of nonclassical MHC class I HLA-G antigen in human breast cancer cell lines and tissue. In *Proceedings of American Association for Cancer Research*. Apr 2010, abstract #5327.

Jiang XP, Elliott RL and Head JF. Conjugation of doxorubicin to transferrin overcomes hypoxia-induced drug resistance in MCF-7 cells and multidrug resistance of NCI/ADR-Res cells. *Poster #0915 in 2009 World Molecular Imaging Congress* in Montreal, Canada. September 23-26, 2009.

Jiang XP, Elliott RL and Head JF. Antisense oligonucleotides targeting the large subunit (R1) of human ribonucleotide reductase synergistically increase the cytotoxicity of doxorubicin and paclitaxel to MCF-7 breast cancer cells. *J Clin Oncol* 27, 2009 (suppl; abstr e14626).

Jiang XP, Elliott RL and Head JF. Transfection with the ferroportin gene increases the cytotoxicity of the iron chelator deferoxamine mesylate to MCF-7 human breast cancer cells. In *Proceedings of American Association for Cancer Research*. Apr 2008; 2008: 899.

Jiang XP, Israyeeyan A, Boykin E, Lomax L, Head JF and Elliott RL. Antisense oligonucleotide targeted to the transferrin receptor gene suppresses tumor growth and lung metastases in 4T1 mammary adenocarcinoma mouse model. *Journal of Clinical Oncology*, 2006 ASCO Annual Meeting Proceedings Part I. Vol 24, No. 18S (June 20 Supplement), abstr.10616

Jiang XP, Boykin E, Elliott RL and Head JF. An antisense oligonucleotide targeting the heavy chain of ferritin can synergistically increase the antitumor activity of rTNF α against the MCF-7 human breast cancer cell line. In *Proceedings of American Association for Cancer Research*. Apr 2006; 2006: 496.

Jiang XP, Ken Hsu, Jonathan F. Head, and Robert L. Elliott. Iron inhibits the cytotoxicity of nitric oxide and the associated cytolysis by natural killer cells of MCF-7 human breast cancer cells. In *Proceedings of American Association for Cancer Research*. Apr 2006; 2006: 149 - 150.

Jiang XP, K Hsu, Head JF and Elliott RL. Effects of iron on the cytotoxicity of nitric oxide and the associated cytolysis by natural killer cells of MCF-7 human breast cancer cells. *Proceedings of American Association for Cancer Research* 2005;46:571.

Jiang XP, K Hsu, Denicola D, JF Head and RL Elliott. Iron impairs natural killer cell function. *Proceedings of American Association for Cancer Research* 2004;45:156.

Jiang XP, K Hsu, Meseyton D, Denicola D, Head JF and Elliott RL. Doxorubicin-gallium-transferrin and cisplatin-transferrin conjugates reverse hypoxia-induced drug resistance in breast cancer MCF-7 cells. *Proceedings of American Association for Cancer Research* 2004;45:493.

Jiang XP, Head JF and Elliott RL. Iron protects MCF-7 breast cancer cells from the cytotoxic effect of nitric oxide. *Proceedings of American Association for Cancer Research* 2003;44:1002.

Jiang XP, RL Elliott and JF Head. Targeting of cancer antigen 15-3 (CA15-3) with a CA15-3 antibody-doxorubicin-loaded liposome complex increases doxorubicin cytotoxicity against the MCF-7 breast cancer cells. *Proceedings of American Association for Cancer Research* 2003;44:729.

Jiang XP, Head JF and Elliott RL. Targeting of HER2 with herceptin-doxorubicin-loaded liposomes suppresses the proliferation of MCF-7 breast cancer cells. *Proc Am Soc Clin Oncol* 21:2002 (abstr 1834).

Jiang XP, JF Head and RL Elliott. Targeting of HER2 with herceptin-doxorubicin-loaded liposomes suppresses the proliferation of MCF-7 breast cancer cells. *Proceedings of American Society of Clinical Oncology* 2002;21(2):7b.

Jiang XP, JF Head and RL Elliott. Targeting of the transferrin receptor with a transferrin antibody-doxorubicin-loaded liposome suppresses the proliferation of MCF-7 breast cancer cells. *Proceedings of American Association for Cancer Research* 2002;43:415.

Yang DC, MS McCreary, XP Jiang, RL Elliott and JF Head. Inhibition of human breast cancer growth by a plasmid that expresses Her-2/neu antisense RNA. *Proceedings of American Association for Cancer Research* 2002;43:88.

Jiang XP, DC Yang, JF Head and RL Elliott. Liposomal-mediated transfer of the human interleukin 6 gene into MCF-7 breast cancer cells results in increased synthesis of tumor associated antigens. *Proceedings of American Association for Cancer Research* 2001;42:820.

Yang DC, XP Jiang, RL Elliott and JF Head. Synergistic inhibition of breast carcinoma cell growth by combinations of HER-2/Neu antisense DNA and chemotherapeutic agents. *Proceedings of American Association for Cancer Research* 2001;42:729.

Yang DC, XP Jiang, RL Elliott and JF Head. Clinical significance of MDR1 and MRP gene expression in primary breast tumors. *Proceedings of American Society of Clinical Oncology* 2000;19:214a.

Yang DC, XP Jiang, RL Elliott and JF Head. Antisense transferring receptor oligonucleotide induces apoptosis in human MCF-7 breast carcinoma cells. *Proceedings of American Association for Cancer Research* 2000;41:752.

Yang DC, XP Jiang, RL Elliott and JF Head. Synergistic inhibition of breast tumor MCF-7 cell growth by combinations of transferring receptor antisense DNA, deferoxamine and hydroxyurea. *Proceedings of American Association for Cancer Research* 2000;41:644.

Jiang XP, DC Yang, JF Head and RL Elliott. All-trans-retinoic acid down-regulates interleukin-6 synthesis in human breast cancer. *Proceedings of American Association for Cancer Research* 1999;40:63.

Jiang XP, DC Yang, RL Elliott and JF Head. Interleukin-6 enhances tumor antigen expression in the MCF-7 human cancer cell line and breast cancer patient. *Breast Cancer Research and Treatment* 1999;57(1):95.

Jiang XP, DC Yang, JF Head and RL Elliott. Interleukin-6 is a growth factor for human breast cancer cells. *Breast Cancer Research and Treatment* 1999;57(1):117.

Yang DC, XP Jiang, RL Elliott and JF Head. Reversal of doxorubicin resistance by doxorubicin-transferrin conjugate in human breast cancer cell lines. *Proceedings of American Association for Cancer Research* 1999;40:664.

Yang DC, JF Head, XP Jiang and RL Elliott. Liposome mediated antisense ferritin light chain transfection inhibits proliferation of human breast cancer cells. *Proceedings of American Association for Cancer Research* 1999;40:478.

Head JF, XP Jiang, DC Yang and Elliott RL. Serum interleukin-6 (IL-6) concentration correlates with serum tumor marker CA15-3 concentration in breast cancer patients. *Proceedings of American Society of Clinical Oncology* 1999;18:630a.

Elliott RL, JA Suits, DC Yang, XP Jiang and JF Head. Increase in serum iron concentration after chemotherapy for breast cancer. *Proceedings of American Society of Clinical Oncology* 1999;18:210a.

Jiang XP, et al. Vaccination of breast cancer patients with autologous tumor-associated antigens results in reduction of serum interleukin-6. *Proceeding of the American Association for Cancer Research* 1998;39:356.

Yang DC, Head JF, Wang F, Jiang XP and Elliott RL. Growth inhibition of multidmg-sensitive and multidrug-resistant human breast cancer cell lines by gallium-transferrin. *Proceeding of the American Association for Cancer Research* 1998;39:257.

Yang DC, Head JF, Jiang XP, Wang F and Elliott RL. An antisense transferrin receptor oligonucleotide suppresses gene expression and proliferation in human breast cancer cell lines. *Proceeding of the American Association for Cancer Research* 1998;39:417.

Jiang XP, et al. The deprivation of iron induces apoptosis in MCF-7 human breast cancer cell line and 13762NF rat mammary adenocarcinoma tumor. *Breast Cancer Research and Treatment* 1997;46(1):109.

Wang F, Jiang XP, Yang DC, Elliott RL and Head JF. Doxorubicin-gallium-transferrin conjugate overcomes multidrug resistance: evidence for nuclear drug accumulation in resistant cell MCF-7/ADR. *Breast Cancer Research and Treatment* 1997;46(1):59.

Wang F, Jiang XP, Yang DC, Elliott RL and Head JF. Effects of gallium and gallium-transferrin on DNA synthesis, ferritin gene expression and cellular ferritin synthesis in MCF-7 cells. *Proceedings of the American Association for Cancer Research* 1997;38:601.

MEMBERSHIP

Member of American Association for Cancer Research (1987--)