

Weihong Tan

Molecular Sciences and Biomedicine Laboratory, State Key Laboratory for Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, College of Life Sciences and Aptamer Engineering Center of Hunan Province, Hunan University, Changsha Hunan, 410082 China

Personal Data

Birthday: May 12, 1960

Birthplace: China

Education

M. Sc. 1985 Chinese Academy of Sciences, China

Ph. D. 1987-1992 University of Michigan, Ann Arbor, Michigan

Professional Experiences

Associate Editor, Journal of American Chemical Society, ACS, 2017 to now

Director, Institute of cancer research and basic medical sciences of Chinese Academy of Sciences, 2019 to now

Dean, Cancer hospital of University of Chinese Academy of Sciences, 2019 to now

Vice-president, China Chemical Society, 2019 to now

Director, State Key Laboratory of Chemo/Biosensing and Chemometrics, 2009 to now

Dean, Institute of Molecular Medicine, Shanghai Jiao Tong University, 2017 to now

University Distinguished Professor, University of Florida, 2012 to 2019

V. T. and Louis Jackson Professor, College of Liberal Arts and Sciences, U. of Florida, 2008 to 2019

Associate Editor, Analytical Chemistry, ACS, 2014 to 2016

Professor, Department of Physiology and Functional Genomics, University of Florida, 2008 to 2019

U. of Florida Research Foundation Professor, College of Liberal Arts and Sciences, 2004 to 2007

Assistant, Associate and Full Professor, Department of Chemistry, Univ of Florida, 1996 to 2001 to 2003

Adjunct Distinguished Professor, College of Biology, Hunan University, 2005-now

Adjunct Distinguished Professor, College of Chemistry and Chemical Engineering, Hunan University, 1999-now

Associate Director, Center for Research at the Interface of Bio/Nano, 2001 to 2019

Member, Moffitt Cancer Center and Research Institute, Tampa, Florida, 2008 to now

Faculty Member, McKnight Brain Institute, Center for Structural Biology, 1996 to 2019

Faculty Member, Health Cancer Center, Univ. of Florida, 2001 to 2019.

Faculty Member, UF Genetics Institute, 2002 to 2019.

ACS Activities and Experiences

Associate Editor, Journal of American Chemical Society (JACS), 2017-;

Associate Editor, Analytical Chemistry, 2014-2016;

Editorial Committee Member: Annual Review of Analytical Chemistry, 2016-;

JACS Editorial Board Member, 2014-2017;

Editorial Member: Analytical Chemistry, 2012-2014;

Editorial Board Member, ACS Nano, 2012-;

Editorial Board Member: Analytical Chemistry A-pages, 2008-2012;

Membership, ACS, 1992-now

Active participation: ACS journal reviewers; ACS symposiums; ACS Outreach programs; ACS international programs; ACS local chapters; ACSA Florida section activities; ACS student organization advisory;

Selected Honors and Awards

Pittsburgh Analytical Chemistry Award, PITTCON 2019

Ralph N. Adams Award in Bioanalytical Chemistry, PITTCON 2019

Member, The European Academy of Science, 2019

Award in Spectrochemical Analysis, American Chemical Society, 2018

Prize for Scientific and Technological Progress, Ho Leung Ho Lee Foundation, 2018

Award for Excellence in Science and Technology, Hunan Foundation of Sciences, 2016

Fellow, The World Academy of Sciences in Developing Countries, 2016

Fellow, The Royal Society of Chemistry, 2016

Member, Chinese Academy of Sciences, 2015

Highly Cited Researchers, The world's Most Influential Scientific Minds, Thomson Reuters, 2019, 2018, 2017, 2016, 2015, 2014

Outstanding Postdoctor Mentoring Award, University of Florida, 2014

Howard Hughes Medical Institute Distinguished Mentor Award, University of Florida, 2014; 2010
National Natural Science Award, Second Class, China State Council, 2014
Technology Innovator, Office of Technology Licensing, University of Florida, 2014, 2013
Natural Science Award, First Class, Hunan Province, 2013
ACS Florida Achievement Award, American Chemical Society Florida Section, 2012
University of Florida Distinguished Professor, University of Florida, 2012
Natural Science Award, First Class, Ministry of Education, 2011
Senior Fellow Award, Japan Society of Science and Technology, Tokyo University, 2010
V. T. and Louis Jackson Professor, Endowed Chair Professorship at University of Florida, 2008 to now
Vice Chair and Chair-elect, Chair, Gordon Research Conference on Bioanalytical Sensors, 2007-2010
President-elect, President, Sigma Xi Society, University of Florida Chapter, 2004-2005-2006
Elected Fellow, The American Association for the Advancement of Science (AAAS), 2005
UF Research Foundation Professorship Award, University of Florida, 2004-2007
Pittsburgh Conference Achievement Award, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, March, 2004
Packard Science and Technology Award, Packard Foundation, 2002
Science and Technology Fellowship Award, Japan Society of Science and Technology, 2000
Distinguished Overseas Scholar Award, National Science Foundation of China, 2000
Biomedical Engineering Award, Whitaker Foundation, 1998
Cottrell Scholar, Research Corporation, 1999
ONR; Young Investigator Award, Office of Naval Research, Department of Defense, 1998
NSF Faculty Career Award, National Science Foundation, 1998
Beckman Young Investigator Award, Arnold Beckman Foundation, 1997
US Department of Energy, Distinguished Postdoctoral Research Award, 1994

Other Editorial and Advisory Board Members

Board Members: Chemical Sciences, EBM, 2010-; Chemistry, An Asia Journal, Editorial Board member (EBM) 2009-; ChemBioChem, EBM, 2010-; Analytical and Bioanalytical Chemistry, EBM, 2009-; Nano Research, EBM, 2008-; The International J. of Clinical and Expt. Pathology, EBM, 2007-; Nanomedicine, EBM, 2010-; Journal of Nanoscience and Nanotechnology, EBM, 2002-; Nanoscale, EBM, 2011-; NPG Asia Materials, 2011-; American Journal of Translational Research, EBM, 2013-; Frontiers in Bioengineering, EBM, 2013-;

Full list of publications

(SCI Search: papers: >700; H-index: 138; citations:>64,000)

727. Penghui Zhang, Di Gao, Keli An, Qi Shen, Chen Wang, Yuchao Zhang, Xiaoshu Pan, Xigao Chen, Yifan Lyv, Cheng Cui, Tingxizi Liang, Xiaoman Duan, Jie Liu, Tielin Yang, Xiaoxiao Hu, Jun-Jie Zhu, Feng Xu, and Weihong Tan*, **Programmable polymer library for constructing smart nanocarriers with hierarchical structure and logic gate**, *Nature Chemistry*, 2020, Accepted.
726. Ruizhi Peng, LiuJun Xu, Huijing Wang, Yifan Lyu Dan Wang, Cheng, Cheng Cui, Chunhai Fan, Qiaoling Liu, Xiaobing Zhang*, Weihong Tan*, **DNA-based artificial molecular signaling system that mimics the basic elements of reception, transduction, and response**, *Nature Communications*, 2020, Accepted.
725. Qiuxia Yang, Deng Zhengyu, Wang Dan, He Jiakuan, Zhang DaiLiang, Tan Yan, Peng Tianhuan, Xue-Qiang Wang*, Weihong Tan*, **Conjugating aptamer and mitomycin C with reductant-responsive linker leading to synergistically enhanced anti-cancer effect**, *Journal of the American Chemical Society*, 2020, doi:10.1021/jacs.9b12409.
724. Jiakuan He[#], Tianhuan Peng[#], Yongbo Peng[#], Lili Ai[#], Zhengyu Deng, Xue-Qiang Wang*, Weihong Tan*, **Molecularly engineering triptolide with aptamers for high specificity and cytotoxicity for triple-negative breast cancer**, *Journal of the American Chemical Society*, 2020, doi:10.1021/jacs.9b10510.
723. Liqin Zhang, Sai Wang, Zunyi Yang, Shuichi Hoshika, Sitao Xie, Jin Li, Xigao Chen, Shuo Wan, Long Li, Steven Benner*, Weihong Tan*, **An aptamer-nanotrain assembled from six-letter DNA delivers doxorubicin selectively to liver cancer cells**, *Angewandte Chemie International Edition*, 59, 663-668, 2020.
722. Dailiang Zhang, Linlin Wang, Xi Yuan, Yijun Gong, Hongwen Liu, Jing Zhang, Xiaobing Zhang, Yanlan Liu*, and Weihong Tan*, **Naked-eye readout of analyte-induced NIR**

721. Da Han, Juan Li*, Weihong Tan*, **CRISPR propels a smart hydrogel The DNA hydrogel displays an enhanced response to target nucleic acid sequences**, *Science*, 365, 754-755, 2019.
720. Chao Liu, Junxiang Zhao, Fei Tian, Lili Cai, Wei Zhang, Qiang Feng, Jianqiao Chang, Fangning Wan, Yunjie Yang, Bo Dai, Yulong Cong, Baoquan Ding, Jiashu Sun* and Weihong Tan, **Low-cost thermophoretic profiling of extracellular-vesicle surface proteins for the early detection and classification of cancers**, *Nature Biomedical Engineering*, 3, 183-193, 2019.
719. Jie Tan, Hao Li, Xiaoxiao Hu, Razack Abdullah, Sitao Xie, Lili Zhang, Mengmeng Zhao, Qiang Luo, Yazhou Li, Zhijun Sun, Quan Yuan*, and Weihong Tan*, **Size-tunable assemblies based on ferrocene-containing DNA polymers for spatially uniform penetration**, *Chem*, 5, 1775-1792, 2019.
718. Yifan Lyu, Yian Guo, Ren Cai, Ruizi Peng, Chengyi Hong, Xigao Chen, Weijia Hou, Xiaowei Li, Jie Tan, Yuxiu Zou, Xiaobing Zhang, Qiaoling Liu, Weihong Tan*, **Spherically directed synthesis and enhanced cellular internalization of metal-crosslinked DNA micelles**, *Chem*, 5, 913-928, 2019.
717. Tianhuan Peng, Zhengyu Deng, Jiakuan He, Yingying Li, Yan Tan, Yongbo Peng, Xueqing Wang*, Weihong Tan*, **Functional nucleic acids for cancer theranostics**, *Coordination Chemistry Reviews*, 403, 213080, 2019.
716. Qiaoling Liu*, Cheng Bi, Jiangling Li, Xuejiao Liu, Ruizi Peng, Cheng Jin, Yang Sun, Yifan Lyu, Hui Liu, Huijing Wang, Can Luo, Weihong Tan*, **Generating giant membrane vesicles from live cells with preserved cellular properties research**, *Research*, 6523970, 2019.
715. Xiaoqiu Wu, Honglin Liu, Dongmei Han, Bo Peng, Hui Zhang, Lin Zhang, Jianglin Li, Jing Liu, Cheng Cui, Senbiao Fang, Min Li, Mao Ye*, Weihong Tan*, **Elucidation and structural modeling of CD71 as a molecular target for cell-specific aptamer binding**, *Journal of the American Chemical Society*, 141, 10760-10769, 2019.
714. Lianhui Zhao, Xiaoyan Qi, Xiaochen Yan, Yunfei Huang, Xingguo Liang, Liqin Zhang, Sai Wang*, Weihong Tan*, **Engineering aptamer with enhanced affinity by triple helix-based terminal fixation**, *Journal of the American Chemical Society*, 141, 44, 17493-17497, 2019.
713. Jin Li, Kanyu Xun, Ke Pei, Xiaojing Liu, Xueyu Peng, Yulin Du, Liping Qiu*, Weihong Tan*, **Cell-membrane-anchored DNA nanoplatfrom for programming cellular interactions**, *Journal of the American Chemical Society*, 141, 45, 18013-18020, 2019.
712. Fang Zhou, Ting Fu, Qin Huang, Hailan Kuai, Liuting Mo, Honglin Liu, Qianqian Wang, Yongbo Peng, Dongmei Han, Zilong Zhao*, Xiaohong Fang*, Weihong Tan*, **Hypoxia-activated PEGylated aptamer/antibody for cancer imaging with improved specificity**, *Journal of the American Chemical Society*, 141, 46, 18421-18427, 2019.
711. Long Li, Xigao Chen, Cheng Cui, Xiaoshu Pan, Xiaowei Li, Hoda Safari Yazd, Qiong Wu, Liping Qiu, Juan Li*, Weihong Tan*, **Aptamer displacement reaction from live-cell surfaces and its applications**, *Journal of the American Chemical Society*, 141, 43, 17174-17179, 2019.
710. Xu Chang, Chao Zhang, Cheng Lv, Yang Sun, Mingzhi Zhang, Yumeng Zhao, Linlin Yang, Da Han*, Weihong Tan*, **Construction of a multiple-aptamer-based DNA logic device on live cell membranes via associative toehold activation for accurate cancer cell identification**, *Journal of the American Chemical Society*, 141, 12738-12743, 2019.
709. Lili Teng, Guosheng Song, Yongchao Liu, Xiaoyu Han, Zhe Li, Youjuan Wang, Shuangyan Huan, Xiao-Bing Zhang*, Weihong Tan, **Nitric oxide-activated “Dual-Key–One-Lock” nanoprobe for in vivo molecular imaging and high-specificity cancer therapy**, *Journal of the American Chemical Society*, 13572-13581, 2019.
708. Yuan Liu, Yu Yang, Yujia Sun, Jibin Song, Nicholas Rudawski, Xiaoyuan Chen, Weihong Tan*, **Ostwald ripening-mediated grafting of metal-organic frameworks on a single colloidal nanocrystal to form uniform and controllable MXF**, *Journal of the American Chemical Society*, 141, 7407-7413, 2019.

707. Hui Liu, Qiuxia Yang, Ruizi Peng, Hailan Kuai, Yifan Lyu, Xiaoshu Pan, Qiaoling Liu*, Weihong Tan*, **Artificial signal feedback network mimicking cellular adaptivity**, *Journal of the American Chemical Society*, 141 (16), 6458-6461, 2019.
706. Lili Zhang, Razack Abdullah, XiaoXiao Hu, Huarong Bai, Huanhuan Fan, Lei He, Hao Liang, Jianmei Zou, Yanlan Liu, Yang Sun, Xiaobing Zhang*, and Weihong Tan*, **Engineering of bioinspired, size-controllable and self-degradable cancer-targeting DNA nanoflowers via incorporation of an artificial sandwich base**, *Journal of the American Chemical Society*, 141(10), 4282-4290, 2019.
705. Ren Cai[#], Dan Yang[#], Keng-Te Lin, Yifan Lyu, Bowen Zhu, Zhen He, Lili Zhang, Yusuke Kitamura, Liping Qiu, Yuliang Zhao, Zhuo Chen*, Weihong Tan*, **Generalized preparation of 2D quasi-nanosheets via self-assembly of nanoparticles**, *Journal of the American Chemical Society*, 141(4), 1725-1734, 2019.
704. Yue Yang[#], Mei Chen[#], Bingzhe Wang, Peng Wang, Yongchun Liu, Yan Zhao, Kun Li, Guosheng Song, Xiao-Bing Zhang*, Weihong Tan, **NIR-II driven plasmon-enhanced catalysis for timely supply of oxygen to overcome hypoxia induced radiotherapy tolerance**, *Angewandte Chemie International Edition*, 58, 2-9, 2019.
703. Jie Tan, Mengmeng Zhao, Jie Wang, Zhihao Li, Ling Liang, Liqin Zhang, Quan Yuan*, Weihong Tan*, **Regulation of protein activity and cellular functions mediated by molecularly evolved nucleic acids**, *Angewandte Chemie International Edition*, 58, 1621-1625, 2019.
702. Fang Zhou[#], Peng Wang[#], Yongbo Peng, Pengge Zhang, Qin Huang, Weidi Sun, Nongyue He, Ting Fu, Zilong Zhao*, Xiaohong Fang*, and Weihong Tan*, **Molecular engineering-based aptamer-drug conjugates with accurate tunability of drug ratios for drug combination targeted cancer therapy**, *Angewandte Chemie International Edition*, 58, 11661-11665, 2019.
701. Zhihe Qing,* Jingyuan Xu, Jinlei Hu, Jing Zheng, Lei He, Zhen Zou, Sheng Yang, Weihong Tan, and Ronghua Yang*, **In situ amplification-based imaging of RNA in living cells**, *Angewandte Chemie International Edition*, 58, 11574-11585, 2019.
700. Cheng Jin, Jiakuan He, Jianmei Zou, Wenjing Xuan, Ting Fu, Ruowen Wang, Weihong Tan*, **Phosphorylated lipid-conjugated oligonucleotide selectively anchors on cell membranes with high alkaline phosphatase expression**, *Nature Communications*, 10, 2704, 2019.
699. Xingshu Li[#], Huanhuan Fan[#], Tian Guo, Huarong Bai, Nahyun Kwon, Kwang H. Kim, Sungsook Yu, Yejin Cho, Hyunji Kim, Ki Taek Nam*, Juyoung Yoon*, Xiao-Bing Zhang*, Weihong Tan, **Sequential protein-responsive nanophotosensitizer complex for enhancing tumor-specific therapy**, *ACS Nano*, 13, 6702-6710, 2019.
698. Xuehui Pang, Xin Zhang, Keke Gao, Shuo Wan, Cheng Cui, Lu Li, Haibin Si, Bo Tang,* Weihong Tan*, **Visible light-driven self-powered device based on a straddling nano-heterojunction and bio-application for the quantitation of exosomal RNA**, *ACS Nano*, 13, 2, 1817-1827, 2019.
697. Can Luo[#], Xiaoxiao Hu[#], Ruizi Peng, Huidong Huang, Qiaoling Liu*, Weihong Tan*, **Biomimetic carriers based on giant membrane vesicles for targeted drug delivery and photodynamic/photothermal synergistic therapy**, *ACS Applied Materials & Interfaces*, 11, 47, 43811-43819, 2019.
696. Dailiang Zhang, Miaomiao Hu, Xi Yuan, Yongxiang Wu, XiaoXiao Hu, Shuai Xu, Hong-Wen Liu, XiaoBing Zhang, Yanlan Liu*, Weihong Tan*, **Engineering self-calibrating nanoprobe with two-photon activated fluorescence resonance energy transfer for ratiometric imaging of biological selenocysteine**, *ACS Applied Materials & Interfaces*, 11, 17722-17729, 2019.
695. Kun Chen[#], Ting Fu[#], Weidi Sun, Qin Huang, Pengge Zhang, Zilong Zhao*, Xiaobing Zhang, Weihong Tan*, **DNA-supramolecule conjugates in theranostics**, *Theranostics*, 9(11): 3262-3279, 2019.
694. Liuting Mo[#], Zilong Zhao[#], Xiaoxiao Hu[#], Xuan Yu, Yongbo Peng, Hui Liu, Mengyi Xiong, Ting Fu, Ying Jiang, Xiaobing Zhang*, Weihong Tan*, **Smart nanodrug with nuclear localization sequences in the presence of MMP-2 to overcome biobarriers and drug resistance**, *Chemistry-A European Journal*, 25, 8, 1895-1900, 2019.

693. Lufeng Zhang, Jiashi Zhang, Zhongfan Zheng, Yixin Liao, Yiting Xu, Zhiwei Li, Shengkai Li, Liang Zhang, Zhangkun Liu, Haibo Yi, Zhuo Chen*, and Weihong Tan, **Interaction-Transferable Graphene-Isolated Superstable AuCo Nanocrystal-Enabled Direct Cyanide Capture**, *Analytical Chemistry*, 91, 8762-8766, 2019.
692. Wen Zhong, Ying Pu, Weihong Tan, Jun Liu, Jie Liao, Bo Liu, Ke Chen, Bo Yu, Yalan Hu, Yuanyuan Deng, Jiani Zhang*, and Huixia Liu*, **Identification and application of an aptamer targeting papillary thyroid carcinoma using tissue-SELEX**, *Analytical Chemistry*, 91, 8289-8297, 2019.
691. Jianmei Zou, Muling Shi, Xiaojing Liu, Cheng Jin, Xiaojing Xing, Liping Qiu*, and Weihong Tan, **Aptamer-functionalized exosomes: elucidating the cellular uptake mechanism and the potential for cancer-targeted chemotherapy**, *Analytical Chemistry*, 91 (3), 2425-2430, 2019.
690. Chao Liu#, Wei Jiang#, Xibin Tian#, Peng Yang, Le Xiao, Jianglin Li, Liping Qiu, Haijun Tu*, Weihong Tan*, **Identification of Vigilin as a potential ischemia biomarker by brain slice-based SELEX**, *Analytical Chemistry*, 91, 6675-6681, 2019.
689. Razack Abdullah#, Sitao Xie#, Ruowen Wang*, Cheng Jin, Yulin Du, Ting Fu, Juan Li, Jie Tan, Lili Zhang, and Weihong Tan*, **Artificial sandwich base for monitoring single-nucleobase changes and charge-transfer rates in DNA**, *Analytical Chemistry*, 91, 2074-2078, 2019.
688. Cheng Lv, Cai Yang, Ding Ding, Yang Sun, Ruowen Wang, Da Han*, Weihong Tan*, **Endocytic pathways and intracellular transport of aptamer-drug conjugates in live cells monitored by single-particle tracking**, *Analytical Chemistry*, 91, 21, 13818-13823, 2019.
687. Qian Guo, Zhan Wu*, Yongbo Peng, Wenyi Peng, Qin Huang, Miao Peng, Ni Huang, XiaoXiao Hu, Ting Fu, Zilong Zhao*, Weihong Tan*, **Tumor extracellular pH-driven cancer-selective artificial receptor-mediated tumor-targeted fluorescence imaging**, *Analytical Chemistry*, 91, 21, 13349-13354, 2019.
686. Huanhuan Fan, Huarong Bai, Qin Liu, Huang Xing, Xiaobing Zhang*, Weihong Tan, **Monitoring telomerase activity in living cells with high sensitivity using cascade amplification reaction-based nanoprobe**, *Analytical Chemistry*, 91, 20, 13143-13151, 2019.
685. Tao Jiang, Lihua Zhou, Haixiang Liu, Pengfei Zhang*, Guozhen Liu, Ping Gong, Chunbin Li, Weihong Tan, Jianhai Chen*, and Lintao Cai*, **Monitorable mitochondria-targeting DNATrain for image-guided synergistic cancer therapy**, *Analytical Chemistry*, 91, 6996-7000, 2019.
684. Mengyi Xiong, Qiming Rong, Gezhi Kong, Chan Yang, Yan Zhao, Feng-Li Qu*, Xiao-Bing Zhang*, Weihong Tan*, **Hybridization chain reaction-based nanoprobe for cancer cell recognition and amplified photodynamic therapy**, *Chemical Communications*, 55, 3065-3068, 2019.
683. Yang Sun, Zhengyu Deng, Yanlan Liu*, Weihong Tan*, **Unlocking multiplexing in deep tissue**, *Science China-Chemistry*, 62, 10, 157-158, 2019.
682. Yongchao Liu, Lili Teng, Hongwen Liu, Chengyan Xu, Haowei Guo, Lin Yuan, Xiaobing Zhang*, Weihong Tan, **Recent advances in organic-dye-based photoacoustic probes for biosensing and bioimaging**, *Science China-Chemistry*, 62, 10, 1275-1285, 2019.
681. Ding Ding, Yinling Zhang, Edward A. Sykes, Long Chen, Zhuo Chen*, and Weihong Tan*, **The influence of physiological environment on the targeting effect of aptamer-guided gold nanoparticles**, *Nano Research*, 12(1): 129-135, 2019.
680. Yiting Xu, Jiamei Xu, Xiaoxiao Hu, Xin Xia, Qian Dong, Zhangkun Liu, Zhuo Chen*, Weihong Tan, **Zinc-substituted hemoglobin with specific drug binding sites and fatty acid resistance ability for enhanced photodynamic therapy**, *Nano Research*, 12, 1880-1887, 2019.
679. Ling Liang#, Na Chen#, Yiyi Jia, Qinqin Ma, Jie Wang, Quan Yuan*, Weihong Tan, **Recent progress in engineering near-infrared persistent luminescence nanoprobe for time-resolved biosensing/bioimaging**, 12(6), 1279-1292, 2019.
678. Xia Wang#, Qiu-Xia Yang#, Cheng-Yu Long, Yan Tan, Yi-Xin Qu, Min-Hui Su, Si-Jie Huang, Weihong Tan*, and Xue-Qiang Wang*, **Anticancer-active N-Heteroaryl amines syntheses: Nucleophilic amination of N-Heteroaryl alkyl ethers with amines**, *Organic Letters*, 21, 13, 5111-5115, 2019.

677. Wei Jiang[#], Xibin Tian[#], Peng Yang[#], Jianglin Li, Le Xiao, Junqiang Liu, Chao Liu, Weihong Tan, Haijun Tu*, **Enolase1 alleviates cerebral ischemia-induced neuronal injury via its enzymatic product Phosphoenolpyruvate**, *ACS Chemical Neuroscience*, 2019.
676. Ding Ding, Da Han, Juan Li*, Weihong Tan*, **Improving early detection of cancers by profiling extracellular vesicles**, *Expert Review of Proteomics*, 16, 545-547, 2019.
675. Li Tian, Mengke Su, Fanfan Yu, Yue Xu, Xiaoyun Li, Lei Li, Honglin Liu*, Weihong Tan*, **Liquid-state quantitative SERS analyzer on self-ordered metal liquid-like plasmonic arrays**, *Nature Communications*, 9, 3642, 2018.
674. Hong-Wen Liu, Lanlan Chen, Chengyan Xu, Zhe Li, Haiyang Zhang, Xiao-Bing Zhang*, Weihong Tan*, **Recent progresses in small-molecule enzymatic fluorescent probes for cancer imaging**, *Chemical Society Reviews*, 47, 7140-7180, 2018.
673. Wenjing Xuan, Yongbo Peng, Zhengyu Deng, Tianhuan Peng, Hailan Kuai, Yingying Li, Jiakuan He, Cheng Jin, Yanlan Liu, Ruowen Wang and Weihong Tan*, **A basic insight into aptamer-drug conjugates (ApDCs)**, *Biomaterials*, 182, 216-226, 2018.
672. Ting Fu[#], Yifan Lyu[#], Hui Liu, Ruizi Peng, Xiaobing Zhang, Mao Ye* and Weihong Tan*, **DNA-based dynamic reaction network**, *Trends in Biochemical Sciences*, 43, 7, 547-560, 2018.
671. Tanggang Deng[#], Guobei Yan[#], Xin Song[#], Lin Xie, Yu Zhou, Jianglin Li, Xiaoxiao Hu, Zhen Li, Jun Hu, Yibin Zhang, Hui Zhang, Yang Sun, Peifu Feng, Dong Wei, Bin Hu, Jing Liu*, Weihong Tan*, Mao Ye*, **Deubiquitylation and stabilization of p21 by USP11 is critical for cell cycle progression and DNA damage responses**, *Proceedings of the National Academy of Sciences of the United States of America*, 115, 4678-4683, 2018.
670. Long Li, Ying Jiang, Cheng Cui, Yu Yang, Penghui Zhang, Kimberly Stewart, Xiaoshu Pan, Xiaowei Li, Lu Yang, Liping Qiu*, Weihong Tan*, **Modulating aptamer specificity with pH-responsive DNA bonds**, *Journal of the American Chemical Society*, 140, 13335-13339, 2018.
669. I-Ting Teng[#], Xiaowei Li[#], Hamad Yadikar, Zhihui Yang, Long Li, Yifan Lyu, Xiaoshu Pan, Kevin Wang*, Weihong Tan*, **Identification and characterization of DNA aptamers specific for phosphorylation epitopes of Tau protein**, *Journal of the American Chemical Society*, 140, 14314-14323, 2018.
668. Ruizi Peng[#], Xiaofang Zheng[#], Yifan Lyu, Liujuan Xu, Xiao-Bing Zhang, Guoliang Ke, Qiaoling Liu, Changjun You, Shuangyan Huan*, Weihong Tan*, **Engineering a 3D DNA-logic gate nanomachine for bispecific recognition and computing on target cell surface**, *Journal of the American Chemical Society*, 140, 9793-9796, 2018.
667. Ying Jiang, Xiaoshu Pan, Jin Chang, Weijia Niu, Weijia Hou, Hailan Kuai, Zilong Zhao*, Ji Liu, Ming Wang*, Weihong Tan*, **Supramolecularly engineered circular bivalent aptamer for enhanced functional protein delivery**, *Journal of the American Chemical Society*, 140, 22, 6780-6784, 2018.
666. Yifan Lyu, Cuichen Wu, Charles Heinke, Da Han, Ren Cai, I-Ting Teng, Yuan Liu, Hui Liu, Xiao-Bing Zhang, Qiaoling Liu, Weihong Tan*, **Constructing smart protocells with built-in DNA computational core to eliminate exogenous challenge**, *Journal of the American Chemical Society*, 140, 6912-6920, 2018.
665. Yuan Wu, Liqin Zhang, Cheng Cui, Sena Cansiz, Hao Liang, Cuichen Wu, I-Ting Teng, Weijun Chen, Yuan Liu, Weijia Hou, Xiaobing Zhang*, Weihong Tan*, **Enhanced targeted gene transduction: AAV2 vectors conjugated to multiple aptamers via reducible disulfide linkages**, *Journal of the American Chemical Society*, 140, 2-5, 2018.
664. Lei He, Danqing Lu, Hao Liang, Sitao Xie, Xiaobing Zhang, Qiaoling Liu, Quan Yuan*, Weihong Tan*, **A mRNA-initiated, three-dimensional DNA amplifier able to function inside living cells**, *Journal of the American Chemical Society*, 140, 258-263, 2018.
663. Hong Liang, Shan Chen, Peipei Li, Liping Wang, Jingying Li, Juan Li*, Huang-Hao Yang*, Weihong Tan*, **Nongenetic approach for imaging protein dimerization by aptamer recognition and proximity-induced DNA assembly**, *Journal of the American Chemical Society*, 140, 12, 4186-4190, 2018.

662. Lu Yang, Hao Sun, Dr. Yuan Liu, Weijia Hou, Yu Yang, Ren Cai, Cheng Cui, Penghui Zhang, Xiaoshu Pan, Xiaowei Li, Long Li, Brent S. Sumerlin* and Weihong Tan*, **Self-assembled aptamer-hyperbranched polymer nanocarrier for targeted and photoresponsive drug delivery**, *Angewandte Chemie International Edition*, 57, 17048-17052, 2018.
661. Xiaowei Li, Ruowen Wang, Ying Jiang, Yifan Lyu, Hao Sun, Yuan Liu, Yanyue Wang, I-Ting Teng, Weijia Hou, Ren Cai, Cheng Cui, Long Li, Xiaoshu Pan, Brent S. Sumerlin, Weihong Tan*, **Cross-linked aptamer-lipid micelles for excellent stability and specificity in target cell recognition**, *Angewandte Chemie International Edition*, 57, 11763-11767, 2018.
660. Cheng Jin[#], Hui Zhang[#], Jianmei Zou, Yan Liu, Lin Zhang, Fengjie Li, Ruowen Wang, Wenjing Xuan, Mao Ye*, Weihong Tan*, **Floxuridine homomeric oligonucleotides "Hitchhike" with albumin in situ for cancer chemotherapy**, *Angewandte Chemie International Edition*, 57, 8994-8997, 2018.
659. Qian Dong[#], Xuewei Wang[#], Xiaoxiao Hu[#], Langqiu Xiao, Liang Zhang, Lijuan Song, Minglu Xu, Yuxiu Zou, Long Chen, Zhuo Chen*, and Weihong Tan*, **Simultaneous application of photothermal therapy and anti-inflammatory prodrug using pyrene-aspirin loaded gold nanorod-graphitic-nanocapsules**, *Angewandte Chemie International Edition*, 57, 183~187, 2018.
658. Liping Qiu, Hui Liu, Jianhui Jiang*, Weihong Tan*, **DNA-nanostructure-templated precise biomineralization**, *National Science Review*, 5, 6 789–791, 2018.
657. Yuan Liu[#], Weijia Hou[#], Lian Xia, Cheng Cui, Shuo Wan, Ying Jiang, Yu Yang, Qiong Wu, Liping Qiu* and Weihong Tan*, **ZrMOF nanoparticles as quencher to conjugate DNA aptamer for target-induced bioimaging and photodynamic therapy**, *Chemical Science*, 9, 7505-7509, 2018.
656. Yuan Wu, Dan Li, Fang Zhou, Hao Liang, Yuan Liu, Weijia Hou, Quan Yuan, Xiaobing Zhang*, Weihong Tan*, **Versatile in-situ synthesis of MnO₂ nanolayers on upconverting nanoparticles and application for activatable fluorescence and MRI imaging**, *Chemical Science*, 9, 24, 5427-5434, 2018.
655. Wanghua Wu, Tao Zhang*, Da Han, Hongliang Fan, Guizhi Zhu, Xiong Ding, Cuichen Wu, Mingxu You, Liping Qiu, Juan Li, Liqin Zhang*, Xiang Lian, Rong Hu*, Ying Mu, Jianguang Zhou and Weihong Tan*, **Aligner-mediated cleavage of nucleic acids and its application to isothermal exponential amplification**, *Chemical Science*, 9, 3050-3055, 2018.
654. Yuxiu Zou, Siqi Huang, Yixin Liao, Xupeng Zhu, Yiqin Chen, Long Chen, Fang Liu, Xiaoxiao Hu, Haijun Tu, Liang Zhang, Zhangkun Liu, Zhuo Chen *, Weihong Tan, **Isotopic graphene-isolated-Au-nanocrystals with cellular raman-silent signals for cancer cell pattern recognition**, *Chemical Science*, 9, 2842-2849, 2018.
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Completed Ph.D. Degrees

Long Li (2019, University of Florida)
 Xiaowei Li (2019, University of Florida)
 Qiong Wu (2019, University of Florida)
 Lei He (2019, Hunan University)
 Jin Li (2019, Hunan University)
 Ruizi Peng (2019, Hunan University)
 Jianmei Zou (2019, Hunan University)
 Xigao Chen (2019, University of Florida)
 Cheng Jin (2018, Hunan University)
 Yuan Wu (2018, Hunan University)
 Shuo Wan (2018, University of Florida)
 Weijia Hou (2018, University of Florida)
 Kimberly Stewart (2018, University of Florida)
 Yifan Lyv (2017, Hunan University)
 Ting Fu (2017, Hunan University)
 Danqing Lu (2017, Hunan University)
 Yang Sun (2017, Hunan University)
 Xiaoyan Zhu (2017, Hunan University)
 Ren Cai (2017, University of Florida)
 Cheng Cui (2017, University of Florida)
 Yanyue Wang (2017, University of Florida)
 I-Ting Teng (2017, University of Florida)
 Sena Cansiz (2016, University of Florida)
 Yuan Liu (2016, University of Florida)
 Carole Champanhac (2016, University of Florida)
 Liqin Zhang (2016, University of Florida)
 Rong Hu (2015, Hunan University)
 Cuichen Wu (2015, University of Florida)
 Bin Yang (2014, Hunan University)
 Ismail Ocsoy (2014, University of Florida)
 Emir Yasun (2013, University of Florida)
 Da Han (2013, University of Florida)
 Diane Turek (2013, University of Florida)
 Guizhi Zhu (2013, University of Florida)
 Tao Chen (2013, University of Florida)
 Lu Peng (2013, University of Florida)
 Elizabeth Jimenez (2013, University of Florida)
 Xiangling Xiong (2012, University of Florida)

Mingxu You (2012, University of Florida)
Basri Gulbakan (2012, University of Florida)
Dimitri Van Simaey (2012, University of Florida)
Zhi Zhu (2011, University of Florida)
Dalia Lopez-Colon (2011, University of Florida)
Meghan Bradley O'Donoghue (2011, University of Florida)
Yan Chen (2010, University of Florida)
Ling Meng (2010, University of Florida)
Huaizhi Kang (2010 or 2009?, University of Florida)
Parag Parekh (2009, University of Florida)
Kwame Sefah (2009, University of Florida)
Yanrong Wu (2009, University of Florida)
Hui Willian Chen (2009, University of Florida)
Dosung Sohn (2009, University of Florida)
Youngmi Kim (2008, University of Florida)
Karen Martinez (2008, University of Florida)
Colin D. Medley (2007, University of Florida)
Prabodhika Mallikaratchy (2007, University of Florida)
Alina C. Muntean (2007, University of Florida)
Joshua E. Smith (2007, University of Florida)
Lin Wang (2006, University of Florida)
Chaoyong James Yang (2006, University of Florida)
Lisa Hilliard (2006, University of Florida)
Timothy Drake (2005, University of Florida)
Marie Vicens (2005, University of Florida)
Zehui Cao (2005, University of Florida)
Monde Qhobosheane (2003, University of Florida)
Jane Hua Lou (2003, University of Florida)
Ruby Tapecc (2003, University of Florida)
待补充.....

Completed M.S. Degrees

Lin Xie (2019, Hunan University)
Zhibo Wang (2019, Hunan University)
Miaomiao Hu (2019, Hunan University)
Ge Zhang (2018, Hunan University)
Xiaojing Liu (2018, Hunan University)
Dongmei Han (2018, Hunan University)
Yifan Zhao (2018, Hunan University)
Lin Wen (2017, Hunan University)
Huijie Zhu (2016, Hunan University)
Wenhan Zhang (2016, Hunan University)
Xiaoqiu Wu (2016, Hunan University)
Songlei Ren (2016, Hunan University)
Minlan Duan (2016, Hunan University)
Lei Mei (2015, Hunan University)
Liping Kang (2015, Hunan University)
Shan Yao (2014, Hunan University)
Nannan Wang (2014, Hunan University)
Xiangkun Nie (2014, Hunan University)
Aili Luo (2014, Hunan University)
Yaru Liu (2013, Hunan University)
Weina Liu (2013, Hunan University)

Michael J Donovan (2013, Hunan University)
Yunfei Zhang (2011, University of Florida)
Pin Pin Sheng (2008, University of Florida)
Li Tan (2006, University of Florida)
Butler Raines (2002, University of Florida)
John Perllate (2001, University of Florida)
Kelley Shannon (2001, University of Florida)
Julia Cordek (2000, University of Florida)
Valerie Gallion (1999, University of Florida)
Catherine stokes (1997, University of Florida)
Vincent Storhaug (1996, University of Florida)
待补充.....

Doctoral Candidates

Huarong Bai (2014-present, Hunan University)
Yuqian Long (2014-present, Hunan University)
Liuting Mo (2014-present, Hunan University)
Yazhou Li (2015-present, Hunan University)
Lili Zhang (2015-present, Hunan University)
Sitao Xie (2015-present, Hunan University)
Xiaoshu Pan (2015-present, University of Florida)
Lu Yang (2016-present, University of Florida)
Jiaxuan He (2016-present, Hunan University)
Le Yang (2016-present, Hunan University)
Hui Liu (2016-present, Hunan University)
Hailan Kuai (2016-present, Hunan University)
Dailiang Zhang (2016-present, Hunan University)
Yulin Du (2017-present, Hunan University)
Qiuxia Yang (2017-present, Hunan University)
Lei Zheng (2017-present, Hunan University)
Yan Tan (2017-present, Hunan University)
Jianghuai Chen (2017-present, Hunan University)
Liyang Zheng (2017-present, Hunan University)
Phouphien KEOINGTHONG (2017-present, Hunan University)
Zhimin Wang (2018-present, Hunan University)
Fengming Chen (2018-present, Hunan University)
Lili Ai (2018-present, Hunan University)
Yingying Li (2018-present, Hunan University)
Xueyu Peng (2018-present, Hunan University)
Can Luo (2018-present, Hunan University)
Xi Yuan (2018-present, Hunan University)
Mehwish Shah (2018-present, Hunan University)
Liujun Xu (2019-present, Hunan University)
Yue Liu (2019-present, Hunan University)
Jing Zhang (2019-present, Hunan University)
Martin Sawyer (2019-present, Hunan University)
Xiaodong Li (2019-present, Hunan University)

Past Postdoctoral Associates

Shujuan Xu (2017-2019, Hunan University)
Tianhuan Peng (2017-2019, Hunan University)
Yongxiang Wu (2015-2017, Hunan University)

Juan Li (2015-2017, Hunan University)
Wenjing Xuan (2015-2019, Hunan University)
Huanhuan Fan (2016-2019, Hunan University)
Zhengyu Deng (2017-2019, Hunan University)
Jie Tan (2016-2019, Hunan University)
Xiaojing Xing (2017-2019, Hunan University)
Xiaohong Fang (1998-2001, University of Florida)
Dihua Shangguan (2003-2006, University of Florida)
Zilong Zhao (2010-2011, University of Florida)
Quan Yuan (2009-2012, University of Florida)
Ruowen Wang (2009-2011, University of Florida)
Juan Li (2013-2014, University of Florida)
Liu Yang (2008-2010, University of Florida)
Leiji Zhou (2010-2011, University of Florida)
Ying Jiang (2016-2018, University of Florida)

Postdoctoral Associates

Honglin Liu (2017-present, Hunan University)
Xiaojuan Gong (2018-present, Hunan University)
Imran Gaffar (2018-present, Hunan University)
Xing Sun (2019-present, Hunan University)
Ruizi Peng (2019-present, Hunan University)
Yifan Lv (2018-present, Hunan University)
Abdullah (2018-present, Hunan University)
Gayathri (2018-present, Hunan University)

High School/Undergraduate/Summer/Rotation/Visiting Researchers

Zhen Zhang (2019-present, Hunan University)
Jing Zheng (2011-2012, University of Florida)
Liping Qiu (2012-2014, University of Florida)
Ting Fu (2014, University of Florida)
Mulin Shi (2015-2016, University of Florida)
Ying Pu (2009-2010, University of Florida)
Jun Liu (2010-2011, University of Florida)
Bo Liu (2011-2012, University of Florida)
Zhenbao Liu (2015-2017, University of Florida)
Jinglin He (2015-2016, University of Florida)
Xingbo Shi (2017-2018, University of Florida)
Yuan Wu (2014-2016, University of Florida)
Xuehui Pang (2017-2018, University of Florida)
Lian Xia (2017-2018, University of Florida)
Rong Hu (2013-2014, University of Florida)
Penghui Zhang (2017-2018, University of Florida)
Hui Zhang (2015-2016, University of Florida)
Xiaofang Shen (2013-2014, University of Florida)
Zeyu Xiao (2006-2007, University of Florida)
Yifan Lv (2015-2017, University of Florida)
Zhijuan Cao (2015-2016, University of Florida)
Tao Zhang (2012-2014, University of Florida)
Zhen Jin (2016-2017, University of Florida)
Jia Ge (2017-2018, University of Florida)
Chunmei Li (2011-2013, University of Florida)
Yan Jin (2012-2013, University of Florida)
Liangliang Zhang (2016-2017, University of Florida)

Erqun Song (2011-2012, University of Florida)
Yang Song (2012-2013, University of Florida)
Jian Wang (2010-2011, University of Florida)
Hongying Jia (2012, University of Florida)
Zhimin Zheng (2016-2017, University of Florida)
Xiaoxiao He (2010, University of Florida)
Huimin Li (2008-2009, University of Florida)
Jin Huang (2009-2011, University of Florida)
Sai Wang (2015-2016, University of Florida)
Kejun Feng (2018-2019, University of Florida)
Hengzhi Zhao (2018-2019, University of Florida)
Min Hong (2018-2019, University of Florida)
Ronghua Yang (2006-2007, University of Florida)
Bincheng Yin (2010-2011, University of Florida)
Fujian Huang (2011-2012, University of Florida)
Xiaoling Zhang (2008-2009, University of Florida)
Huanghao Yang (2007-2008, University of Florida)
Ye Xu (2007-2008, University of Florida)
Xiaolan Chen (2007-2008, University of Florida)
Chen Wang (2017-2019, University of Florida)
Ameer Basta (2017-2019, University of Florida)