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EDUCATION

- 1974 FUJEN CATHOLIC UNIVERSITY Taipei, Taiwan
BS in Physics.
- 1976 UNIVERSITY OF RHODE ISLAND Kingston, RI
MS in Physics.
- 1982 MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA
Ph.D. in Applied Radiation Physics.

EXPERIENCE

- 2001- present HOWARD UNIVERSITY Washington, DC
Professor, Department of Radiology. Director of the Molecular Imaging / Biomedical NMR Laboratory. Primary responsibilities are to coordinate pre-clinical imaging research projects, to provide technical support, and to supervise the operation of University Imaging Core Facility. Research areas include In vitro and in vivo NMR, PET, SPECT, CT, optical imaging, and localized NMR spectroscopy studies of diseases including cancer, heart disease, and degenerative diseases using small animal models; studies of multidrug interaction and body composition; molecular imaging; and MRI applications in agriculture. Since 2005, the research interests also include developing nanoparticles as drug delivery vehicles for targeted therapy and diagnostic imaging.
- 2014- Chair Professor, Fu Jen Catholic University Taipei, Taiwan
- 2007-16 Guest Professor, National Center for Nanoscience and Technology Beijing, China
- 2001-16 HOWARD UNIVERSITY Washington, DC
Adjunct Professor, Department of Biochemistry and Molecular Biology
- 1989-01 HOWARD UNIVERSITY Washington, DC
Associate Professor, Department of Radiology
- 1984-89 GEORGETOWN UNIVERSITY Washington, DC
Assistant Professor, Department of Radiology. Maintained and supervised the operation of a 1.5 T Siemens clinical MRI machine.
- 1982-84 UNIVERSITY OF KENTUCKY Lexington, KY
Assistant Research Professor, Department of Radiology, Maintained and supervised the operation of a Technicare 1.5K gauss resistive whole body MRI scanner.
- 1980 NATO ADVANCED STUDY INSTITUTE Wellesley, MA
Teaching Assistant.
- 1979-82 MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA
Research Assistant in a project: Application of photon correlation spectroscopy to biological problems; mainly, investigating bacterial motility and chemotaxis. The experimental work involved laser optics settings and maintenance, computer control and programming, automatic data collection, post-signal processing, and cell culture.
- 1977-78 MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA
Research Assistant in a medical ultrasonic project studying ultrasound hyperthermia by a phased array transducer and mechanical control lens focusing methods.
- 1974-76 UNIVERSITY OF RHODE ISLAND Kingston, RI
Teaching Assistant in physics laboratory courses.

PATENT AWARD

U. S. Patent and Trademark Office, NMR Image Test Phantom entitled "Quality Control Phantom for Use in Computed Tomographic Imaging Instruments and Method of Use", Patent No. 4,618,826, 1986.

HONORS

2021 Howard University, College of Medicine, Special Unit Award
2016 Howard University Cancer Center, Conquering Cancer Award
2014 Fu Jen Catholic University Honorary Degree of Doctor of Science, Taipei, Taiwan
2010 Fu Jen Catholic University Distinguished Alumni Award, Taipei, Taiwan
2010 Howard University College of Medicine 1st Annual Research Day, First Place for Senior Faculty
2010 Howard University College of Medicine Dr. Moses Wharton Young Research Award
2008 Howard University College of Medicine, Outstanding Faculty Researcher Award

SOCIETIES

Member of American Association of Physicists in Medicine
Member of International Society of Magnetic Resonance in Medicine
Member of European Society for Magnetic Resonance in Medicine and Biology
Member of Society of Molecular Imaging
Member of American Society for Nanomedicine

PUBLICATIONS

1. Hsu CH, Agaronyan A, Raffensperger K, Kadden M, Ton HT, Wu F, Lin YS, Lee YJ, Wang PC, Shoykhet M, Tu TW, "Detection of Activated Microglia by Convolutional Neural Networks", 2022 IEEE Biomedical Circuits and Systems Conference (BioCAS), pp 198-202.
2. Chen CY, Yang YF, Wang PC, Shan L, Lin S, Chen PJ, Chen YJ, Chiang HS, Lin JT, Hung CF, Liang YJ. Simvastatin Attenuated Tumor Growth in Different Pancreatic Tumor Animal Models. *Pharmaceuticals*. 2022 15(11):1408. doi: 10.3390/ph15111408, PMID: 36422538
3. Kobayashi K, Maeda T, Ayodeji M, Tu SC, Chen A, Rajtboriraks M, Hsu CH, Tu TW, Wang PC, Hanley PJ, Jonas RA, Ishibashi N, "The Dose-effect of Mesenchymal Stromal Cell Delivery through Cardiopulmonary Bypass", *The Annals of Thoracic Surgery*, 2022, doi: 10.1016/j.athoracsur.2022.07.035, PMID:35952858
4. Meshida K, Lin S, Doming DP, Reidenberg JS, Wang PC, Gilland E. The unique rectus extraocular muscles of cetaceans: Homologies and possible functions. *J. Anatomy* 240:1075-1094, 2022, PMID: 35048365
5. Agaronyan A, Syed R, Kim R, Hsu CH, Love SA, Hooker JM, Reid AE, Wang PC, Ishibashi N, Kang Y, Tu TW. A Baboon Brain Atlas for Magnetic Resonance Imaging and Positron Emission Tomography Image Analysis. *Frontier Neuroanat*. 2022 Jan 14;15:778769. doi: 10.3389/fnana.2021.778769. PMID: 35095430; PMCID: PMC8795914.
6. Dhari Z, Leonetti C, Lin S, Prince A, Howick J, Zurakowski D, Wang PC, Jonas RA, Ishibashi N. Impact of Cardiopulmonary Bypass on Neurogenesis and Cortical Maturation. *Ann Neurol*. 2021 Dec;90(6):913-926. doi: 10.1002/ana.26235. PMID: 34590341
7. Hsu CH, Lin S, Ho AC, Johnson TD, Wang PC, Scafidi J, Tu TW. Comparison of In Vivo and In Situ Detection of Hippocampal Metabolites in Mouse Brain Using 1H-MRS. *NMR Biomed* 34(2): e4451. doi:10.1002/nbm.4451, 2021, PMID33258202; PMC8214416
8. Meshida K, Lin S, Doming DP, Wang PC, Gilland E. The oblique extraocular muscles in cetaceans: Overall architecture and accessory insertions. *J Anat* 238(4):917-941. doi: 10.1111/joa.13347. 2021, PMID: 33131071; PMC7930771
9. Meshida K, Lin S, Doming DP, Reidenberg JS, Wang PC, Gilland E. Cetacean Orbital Muscles: Anatomy and Function of the Circular Layers. *Anatomical Record* 303:1792-1811, 2020, PMID 31587496; PMC7131895
10. Gong NQ, Zhang YX, Teng XC, Wang YC, Huo SD, Qing GC, Ni QK, Li XL, Wang JJ, Ye XX, Zhang TB, Chen SZ, Wang YG, Yu J, Wang PC, Gan YL, Zhang JC, Mitchell M, Li JH, Liang Xing-Jie. Proton-driven Transformable Nanovaccine for Cancer Immunotherapy. *Nat. Nanotechnol* 15(12):1053-1064, 2020 PMID 33106640; PMC7719078
11. Hu M, Armstrong N, Seto E, Li W, Zhu F, Wang PC, Tang QY. Sirtuin 6 Attenuates Kaposi's Sarcoma-Associated Herpesvirus Reactivation by Suppressing Ori-Lyt Activity and Expression of RTA. *J Virology* 93(7):e02200-18, 2019, PMID 30651359; PMC6430549

12. Ignacio DN, Mason KD, Hackett-Morton EC, Albanese C, Ringer L, Wagner WD, Wang PC, Carducci MA, Kachhap SK, Paller CJ, Mendonca J, Chan LL, Lin B, Hartle DK, Green JE, Brown CA, Hudson TS. Muscadine grape skin extract inhibits prostate cancer cells by inducing cell-cycle arrest and decreasing migration through heat shock protein 40. *Heliyon*. 5(1): e01128, 2019, PMID 30705983; PMC6348279
13. Tan J, Li C, Wang Q, Li S, Chen S, Zhang J, Wang PC, Ren L, Liang XJ. A Carrier-free Nanostructure Based on Platinum (IV) Prodrug Enhances Cellular Uptake and Cytotoxicity. *Mol Pharm* 15(4):1724-28, 2018, PMID 29522683; PMC7057395
14. Wen Y, Zhang W, Gong NQ, Wang YF, Guo HB, Guo WS, Wang PC, Liang XJ. Carrier-free, Self-assembled Pure Drug Nanorods Composed of 10-Hydroxycamptothecin and Chlorin e6 for Combinatorial Chemo-Photodynamic Antitumor Therapy in vivo. *Nanoscale* 9(38):14347-56. 2017, PMID: 28731112; PMCID: PMC5629108
15. Xue XD, Jin SB, Li ZP, Zhang CQ, Guo WS, Hu LM, Wang PC, Zhang JC, Liang XJ. Through-Bond Energy Transfer Cassette with Dual-Stokes Shifts for "Double Checked" Cell Imaging. *Adv Science* (4), DOI: 10.1002/advs.201700229, 2017, PMID: 29270336; PMC5737226
16. Zhu SW, Liu YY, Wang PC, Gu XB, Shan L. Recombinant Immunotoxin Therapy of Glioblastoma: Smart Design, Key Findings, and Specific Challenges. *BioMed Research International Volume 2017*, Article ID 7929286, <https://doi.org/10.1155/2017/7929286>, 2017. PMID: 28752098; PMC5511670
17. Zhang CQ, Zhang TB, Jin SB, Xue XD, Yang XL, Gong NQ, Zhang JC, Wang PC, Tian JH, Xing JF, Liang XJ. Virus-Inspired Self-Assembled Nanofibers with Aggregation-Induced Emission for Highly Efficient and Visible Gene Delivery, *ACS Appl Mater Interfaces* (9):4425-4432, 2017. PMID: 28074644; PMC5545877
18. Zhang TB, Guo WS, Zhang CQ, Yu J, Xu J, Li SY, Tian JH, Wang PC, Xing JF, Liang XJ. Transferrin-Dressed Virus-like Ternary Nanoparticles with Aggregation-Induced Emission for Targeted Delivery and Rapid Cytosolic Release of siRNA, *ACS Appl Mater Interfaces* (9):16006-16014, 2017. PMID: 28447465; PMC5545884
19. Tuguntaev RG, Chen SZ, Eltahan AS, Mozhi A, Jin SB, Zhang JC, Li C, Wang PC, Liang XJ. Pgp Inhibition and Mitochondrial Impairment by Dual-Functional Nanostructure Based on Vitamin E Derivatives To Overcome Multidrug Resistance. *ACS Appl Mater Interfaces* (9):16900-16912, 2017. PMID: 28463476; PMCID: PMC5545886
20. Stinnett GR, Lin S, Korotcov AV, Korotcova L, Morton PD, Ramachandra SD, Pham A, Kumar S, Agematsu K, Zurakowski D, Wang PC, Jonas RA, Ishibashi N. Microstructural Alterations and Oligodendrocyte Dysmaturation in White Matter After Cardiopulmonary Bypass in a Juvenile Porcine Model. *J Am Heart Assoc*. 6(8), 2017, doi: 10.1161/JAHA.117.005997. PMID: 28862938; PMCID:PMC5586442
21. Lv GX, Guo WS, Zhang W, Zhang TB, Li SY, Chen SZ, Eltahan AS, Wang DL, Wang YQ., Zhang JC, Wang PC, Chang J, Liang XJ. Near-Infrared Emission CuInS/ZnS Quantum Dots: All-in-One Theranostic Nanomedicines with Intrinsic Fluorescence/Photoacoustic Imaging for Tumor Phototherapy. *ACS Nano* (10):9637-9645, 2016, PMID 27623101; PMC5359086
22. Zhang TB, Xu J, Zhang CQ, Li C, Xing JF, Wang PC, Liang XJ. Multifunctional Dendrimers for Drug Nanocarriers. *Novel Approaches for Drug Delivery*, Raj K. Keservani, Anil K. Sharma, and Rajesh Kumar Kesharwani (eds), pp 245-276, 2016, Medical Information Science Reference Publisher.
23. Zhang CQ, Jin SB, Xue XD, Zhang TB, Jiang YG, Wang PC, Liang XJ. Tunable self-assembly of Irinotecan-fatty acid prodrugs with increased cytotoxicity to cancer cells. *J Mater. Chem. B*, 4(19):3286-3291, 2016, PMID: 27239311; PMC4882116.
24. Zhuang XX, Ma XW, Xue XD, Jiang Q, Long LL, Dai LR, Zhang CQ, Jin SB, Yang KN, Ding BQ, Wang PC, Liang XJ. A Photosensitizer-Loaded DNA Origami Nanosystem for Photodynamic Therapy. *ACS Nano* (10):3486-3495, 2016, PMID: 26950644; PMC4837698
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26. Xue XD, Xu J, Wang PC, Liang XJ. Subcellular Behaviour Evaluation of Nanopharmaceuticals with Aggregation-Induced Emission Molecules. *J Mater Chem C Mater Opt Electron Devices* 4(14):2719-2730, 2016, PMID 27042309; PMC4816494
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35. Hauser B, Pang XW, Ling ZG, Myers E, Wang PC, Califano J, Gu XB. MiRNA-128 Acts As A Tumor Suppressor by Regulating the Pathways Associated with Head and Neck Cancer Cell Growth and Apoptosis. *Plos One*, March 12, 10(3):e011632, 2015, PMID: 25764126 PMCID: PMC4357443
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38. Heier CR, Gueron AD, Korotcov A, Lin S, Gordish-Dressman H, Fricke S, Sze RW, Hoffman EP, Wang P, Nagaraju K. Non-Invasive MRI and Spectroscopy of mdx Mice Reveal Temporal Changes in Dystrophic Muscle Imaging and in Energy Deficits. *Plos One* 9(11)e112477. Nov 12, 2014. PMID: 25390038; PMCID: PMC4229202
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45. Shan L, Liu Y, Wang PC. Recombinant Immunotoxin Therapy of Solid Tumors: Challenges and Strategies. *J. Basic Clin Med* 2(2):1-6, 2013. PMID 25309827

46. Xue X, Hall HD, Zhang Q, Wang PC, Gottesman MM, Liang XJ. Nanoscale Drug Delivery Platforms Overcome Platinum-Based Resistance in Cancer Cells Due to Abnormal Membrane Protein Trafficking. *ACS Nano* vol.7 (12)10452-10464, 2013. PMID 24219825
47. Kumar A, Chen F, Mozhi A, Zhang X, Zhao YY, Xue XD, Hao YL, Zhang ZN, Wang PC, Liang XJ. Innovative pharmaceutical development based on unique properties of nanoscale delivery formulation. *Nanoscale* (5)8307-25, 2013, PMID 23860639.
48. Zhang FY, Shan L, Liu YY, Neville D, Woo JH, Chen Y, Korotcov A, Lin S, Huang S, Sridhar R, Liang W, Wang PC. An Anti-PSMA Bivalent Immunotoxin Exhibits Specificity and Efficacy for Prostate Cancer Imaging and Therapy. *Adv. Healthcare Materials*, 2(5)736-44, 2013, PMID 23184611.
49. Hu XX, Hao XH, Wu Y, Zhang JC, Zhang XN, Wang PC, Zou GZ, Liang XJ. Multifunctional Hybrid Silica Nanoparticles for Controlled Doxorubicin Loading and release With Thermal and pH Dual Response. *J Material Chem B* (1)1109-1118, 2013. PMID 23543911
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51. Ma XW, Zhang LH, Wang LR, Xue X, Sun JH, Wu Y, Zou GZ, Wu X, Wang PC, Wamer WG, Yin JJ, Zheng KY, Liang XJ. Single-Walled Carbon Nanotubes Alter Cytochrome C Electron Transfer and Modulate Mitochondrial Function. *ACS Nano* 6(12)10486-96, 2012. PMID: 23171082
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65. Guo ST, Huang YY, Jiang Q, Sun Y, Deng LD, Liang ZC, Du Q, Xing JF, Zhao YL, Wang PC, Dong AJ, Liang XJ. Enhanced Gene Delivery and siRNA Silencing by Gold Nanoparticles Coated with Charge-Reversal Polyelectrolyte. *ACS Nano* vol 4(9):5505-5511, 2010, PMID: PMC3044603
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