

Ding Zhaoying
Email: zhaoyingding07@gmail.com

Education

2021 Present Nanjing Drum Tower Hospital, Resident Doctor (Internal Medicine)
2018-2021 Southeast University, MSc, Internal Medicine
2013-2018 Southeast University BSc, Clinical Medicine 3.62/4.0
(Directly admitted to Master program for outstanding academic performance)

Qualifications

- Skilled in mice model and operations, molecular laboratory techniques, tissue culturing and data analysis
- Keen interest in renal cancer and cancer-related diseases
- Extensive experience in clinical interface with patients and in basic science research

Research Experience

Resident Physician in Internal Medicine |Nanjing Drum Tower Hospital| 2021- present
-Bridged master research project with clinical experience and performed translational/clinical studies
-Utilized SPSS software for Cox regression modeling, survival curve, T-test, non-parametric tests, Chi-square tests.
-Employed R language for Box-Cox transformation, various regression analysis and forest plot creation.
-First Authorship on one English manuscript, currently under review.

M.Sc. student | Southeast University |2018-2021

Project: Therapeutic Effect of Extracellular Vesicles Derived from HIF Prolyl Hydroxylase Domain Enzyme Inhibitor-Treated Cells on Renal Ischemia/Reperfusion Injury

- Performed bilateral ischemia-reperfusion surgery to construct mouse acute kidney injury model
- Experienced in aseptic extraction of extracellular vesicles, mouse dissections, blood, urine and organs/tissue collection, tail IV injection, and molecular techniques including protein and RNA extraction, qf-PCR, western blot, ELISA, flow cytometry and *in vitro* human renal tubular epithelial cells/HEK-293 culturing
- Skilled in live cell fluorescent staining and confocal microscopy, analyzed and statistically quantified imaging data with ImageJ and Prism
- Presented results at lab meetings and communicated effectively & took suggestions from the supervisor and lab members, resulted in first authorship on Ding et al (Kidney Dis (Basel), IF 3.7)
- Performed critical literature review on kidney epithelial cells and chronic kidney disease, resulted in first authorship on Ding et al (Chinese Medical Journal, IF 6.1)
- Collaborated with other lab members in their projects by assisting in kidney injury modeling, siRNA transfection, mouse gavage, mesenchymal stem cells isolation from umbilical cord, extraction of exosomes and IP injection, resulted in co-authorship on Cao et al 2020 (Stem Cell Re & Ther, IF 7.5) and Tang et al 2021 (J Am Soc Nephrol, IF 13.6).

Development of angiotensin II type 1 receptor-targeted radioligands for diagnosis and radioligand therapy of cancer

Background: Angiotensin II type 1 receptor (AT1R) is a G protein-coupled receptor and is overexpressed in various cancers including neuroendocrine tumor, breast, ovarian, prostate and liver cancer [1,2]. Due to its low or lack of expression in most of normal organs/tissues, AT1R represents a promising cancer imaging marker and therapeutic target. Recently, a couple of attempts have been reported on the development of AT1R-targeted tracers for cancer imaging. Both attempts used the endogenous Angiotensin II (Asp-Arg-Val-Tyr-Ile-His-Pro-Phe) sequence as the targeted vector. Despite clear tumor visualization with these reported tracers, their tumor uptake was low due to the in vivo instability of endogenous Angiotensin II. Dr. Kuo-Shyan Lin's lab specializes in the development of cancer-targeted radioligands, and is experienced in the stabilization of endogenous peptides with unnatural amino acid substitutions to improve tumor uptake of their radiolabeled derivatives [3].

Specific Aims: The overall goal of my PhD project is design, synthesis and evaluation of high-affinity and in vivo stable AT1R-targeted radioligands for diagnosis and radioligand therapy of cancer. Towards these goals, I have the following specific aims: (1) Design, synthesis and evaluation of high-affinity and in vivo stable AT1R-targeting imaging tracers; (2) To convert the lead candidates identified in Aim 1 to radiotherapeutic agents and incorporate an albumin binder to extend their blood residence time and further improve uptake in tumor; and (3) To evaluate the treatment efficacy of lead candidates identified in Aim 2 in tumor-bearing mice.

Methods: I will design novel AT1R-targeted radioligands based on the endogenous sequence of angiotensin II. I will identify the cleavage sites and systematically investigate the substitutions of amino acids adjacent to the cleavage sites with close-related unnatural amino acids to improve in vivo stability without sacrificing the binding affinity to AT1R. We will radiolabel the high-affinity binders with a positron emitter ^{68}Ga to assess their suitability for imaging with positron emission tomography in mice bearing AT1R-expressing BON neuroendocrine tumor [2] and HepG2 liver cancer [1] tumor xenografts. The identified top candidates will be converted to radiotherapeutic agents by replacing the labeled positron emitter with a therapeutic radionuclide ^{177}Lu , a β -emitter. In addition, we will also incorporate these top candidates with an albumin binder to extend their blood residence time, so these ligands would have more chances to bind to AT1R expressed on cancer cells, leading to enhanced uptake in tumor. Finally, we will evaluate the treatment efficacy of top ^{177}Lu -labeled candidates in mice bearing BON and HepG2 tumor xenografts.

Expected Outcomes: Completion of this project will generate effective AT1R-targeted radioligands for diagnosis and radioligand therapy of AT1R-expressing cancer. Once translated into the clinic, these radioligands are expected to significantly reduce the morbidity and mortality of cancer.

References:

1. Tu Y, Liu Z, Wang F, et al. AT1R-specific ligand angiotensin II as a novel SPECT agent for hepatocellular carcinoma diagnosis. *ACS Sensors* 2020; 5: 4072-4080.
2. Exner S, et al. AGTR1 is overexpressed in neuroendocrine neoplasms, regulates secretion and may potentially serve as a target for molecular imaging and therapy. *Cancers* 2020; 12: 3183.
3. Wang L, et al. Unnatural amino acid substitutions to improve in vivo stability and tumor uptake of ^{68}Ga -labeled GRPR-targeted TacBOMB2 derivatives for cancer imaging with positron emission tomography. *EJNMMI Radiopharmacy and Chemistry* 2024; 9: 8.

National Undergraduate Research in Innovation and Entrepreneurship |Southeast University|
2013-2018

Project: Investigate the function of Foxg1 in preoptic area (POA) and ventral telencephalic patterning

- Actively performed literature research and critically reviewed, analyzed and summarized the past research on ventral telencephalic patterning
- Effectively performed mouse handling, colony setup, brain tissue extraction, cryosection and molecular laboratory techniques including PCR, RT-PCR and DNA gel electrophoresis
- Collaboration and Commitment result in authorship on Du et al (Cereb Cortex, IF 3.7)

Journal Article Publications

1. **Ding, Z. Y.**, Tang, T., Li, Z., Cao, J., Lv, L., Wen, Y., Wang, B., & Liu, B. (2022). Therapeutic Effect of Extracellular Vesicles Derived from HIF Prolyl Hydroxylase Domain Enzyme Inhibitor-Treated Cells on Renal Ischemia/Reperfusion Injury. *Kidney diseases (Basel, Switzerland)*, 8(3), 206–216. <https://doi.org/10.1159/000522584>
2. 丁照 ▪ (**Ding, Z. Y.**) , ▪ 涛涛, 刘必成. (2021) ▪ 小管上皮 ▪ 胞 ▪ ▪ 在急性 ▪ ▪ ▪ 向慢性 ▪ ▪ 病 ▪ ▪ 中的作用研究 ▪ 展 [J] 中 ▪ 医学 ▪ 志, 101(6) : 442-445. DOI: 10.3760/cma.j.cn112137-20200602-01750
3. Tang, T., Wang, B., Li, Z., Wen, Y., Feng, S., Wu, M., Liu, D., Cao, J., Yin, Q., Yin, D., Fu, Q., Gao, M., **Ding, Z. Y.**, Qian, J., Wu, Q., Lv, L., & Liu, B. (2021). Kim-1 Targeted Extracellular Vesicles: A New Therapeutic Platform for RNAi to Treat AKI. *Journal of the American Society of Nephrology: JASN*, 32(10), 2467–2483. <https://doi.org/10.1681/ASN.2020111561>
4. J Cao, J., Wang, B., Tang, T., Lv, L., **Ding, Z. Y.**, Li, Z., Hu, R., Wei, Q., Shen, A., Fu, Y., & Liu, B. (2020). Three-dimensional culture of MSCs produces exosomes with improved yield and enhanced therapeutic efficacy for cisplatin-induced acute kidney injury. *Stem cell research & therapy*, 11(1), 206. <https://doi.org/10.1186/s13287-020-01719-2>
5. Du, A., Wu, X., Chen, H., Bai, Q. R., Han, X., Liu, B., Zhang, X., **Ding, Z. Y.**, Shen, Q., & Zhao, C. (2019). Foxg1 Directly Represses Dbx1 to Confine the POA and Subsequently Regulate Ventral Telencephalic Patterning. *Cerebral cortex (New York, N.Y.: 1991)*, 29(12), 4968–4981. <https://doi.org/10.1093/cercor/bhz037>

Awards and Recognition

Dalian DongGang Scholarship (Provincial Scholarship) 2018
Southeast University Graduate Academic Scholarship 2018-2021

Community Service & Work experience

Internship |Yangzhou University Affiliated Hospital |2018

- Performed daily check-up on patients in hospital to ensure their health and conditions
- Organized and documented patients' medical record
- Attended clinical lectures and speeches within the department to learn about the diagnosis and treatment of diseases

Hospital Database Volunteer | Nephrology Department of Zhongda Hospital affiliated with Southeast University | 2018 – 2021

- Contributed to the construction of the research institute's sample bank
- Assisted in the collection and processing of blood and urine samples from inpatients

Various Academic Conference volunteer | Southeast University | 2018-2020

- Participated in the 2018 Nanjing International Nephrology Forum, 2019 Hemodialysis Center Annual Meeting & Nanjing Nephrology Forum, and the 2020 Jiangsu Hospital Association Hemodialysis Center Branch 2020 Academic Annual Meeting & Nanjing Nephrology Forum
- Assisted with liaison, reception, venue arrangement, Powerpoint projection, and distribution of certificates.

Lab coordinator during COVID | Southeast University | 2020

- Liaised between lab members to negotiate schedules and availability during COVID19 period
- Communicated and collaborate with lab-tech companies for setting a long-abandoned cell room located off-campus and cleaned and assembled equipment's to ensure proper functions of the lab

Graduate student Mentor & R3 Internal Medicine | Nanjing Drum Tower Hospital | 2021-Present

- Responsible for patient consultations, physical examinations, diagnosis issuance, and formulating patient treatment plans under the guidance of senior physicians
- Managed medical record writing and organization.
- Independently performed invasive medical operations such as bone marrow aspirations and lumbar punctures.
- Provided experimental technical guidance to junior graduate students, assisting them in analyzing reasons for suboptimal experimental results and offering improvement suggestions.




Southeast University Transcript of Academic Records for Bachelor Degree

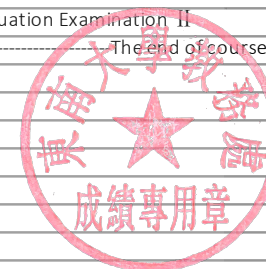
Department: School of Medicine
Initial ID: 213132058 Student ID: 43113315

Major: Clinical Medicine
Name: DING ZHAOYING

Education System: 5 Year
Print Time: 2023-11-17 14:42:50

TITLES OF COURSES			Credit	Grade	TITLES OF COURSES			Credit	Grade	TITLES OF COURSES			Credit	Grade																					
2013-2014 year 1-2 semester					Histology & Embryology C					1.5	90	Nursing skills II					0.5	97	Disease Diagnosis & Clinical Thought Process (Internal Medicine)					2	88										
Military Training(Including Theoretical Course)					2	B	Physiology					3.5	80	Diagnostics skills					1.5	92	2016-2017 year 3 semester														
▲American Literature & Culture					2	87	Morphology Experiment(A)					1	98	Situation & Policy					0.5	89	Evidence-based Medicine					1	91								
▲Environmental Protection & Sustainable Development					2	86	Systemic Anatomy					4.5	90	2015-2016 year 3 semester					Internal Medicine 2					3	77										
Advanced Mathematics					2	98	Human Body Structure & Function B					2	89	Physical Education 5					0.5	78	Pediatrics A					3	88								
Physics Experiment (Medicine)					1	B	2014-2015 year 3 semester					Medical Genetics B					1	87	Stomatology					1	79										
College English III					2	84	An Introduction to Mao Zedong Thought & Chinese-featured Socialism Theory					3	83	Regional Anatomy B					2	85	Infectious Disease					1.5	94								
Basic Physical Education I					0.5	87	Medical Sociology					1	88	Preventive medicine					1.5	84	General Practice					1	87								
College Chemistry (Volume 1)					2	92	Academic English Listening & Speaking					1	88	Medical Statistics					1.5	97	Oncology II					1	79								
Freshman Seminars					1	A	Physical Education 4					0.5	75	Surgery 1					2	75	General Practice Skills					1	86								
Military Theory					1	92	College Chemistry (Volume 2)					3	67	Diagnostic Radiology B					2	92	Doctor-patient Communication Skills					1	87								
Ethics Cultivation & Basis of Law					3	89	Biochemistry (B)					3.5	72	Electrocardiography					1	71	Internal Medicine Skills II					0.5	97								
Fundamentals of College Computer					0	94	Medical Microbiology D					1.5	80	Traditional Chinese Medicine					2	87	Clinical Skills of Pediatrics					0.5	95								
Computer Programming					2	87	Medical Immunology					1.5	88	Emergency Medicine					1	82	Disease Diagnosis & Clinical Thought Process (ICU) B					2	88								
2013-2014 year 3 semester					Pathology					3.5	70	Medical Informatics					1	90	Disease Diagnosis & Clinical Thought (Interventional & Minimally Invasive) B					2	85										
Medical Physics					3	90	Morphology Experiment A-2					1	85	Medical Information Internship					0	P	2017-2018 year 3 semester														
Compendium of Chinese Modern History					2	86	Biochemistry Experiments (B)					1.5	79	Surgical Clinical Skills I					1.5	87	Practice of Humanities and Social Sciences					1	P								
Medical Psychology					1	84	Experiment of Medical Microbiology & Immunology					1	87	Disease Diagnosis & Clinical Thought Process Surgery)					2	82	Student Research Training Program					2	A								
Medical Ethics					1	88	Human Function & Disease B					2	84	Introduction to Employment					0.5	93	Clinical Practice					24	90								
Introduction to Finance & Economics					2	89	Functional Design					1	85	2016-2017 year 1-2 semester					Comprehensive Clinical Assessment					0.5	74										
College English IV					2	84	Health Care					1	85	Physical Education 6					0.5	87	Graduation Examination I					0.5	82								
Physical Education II					0.5	85	Early Clinic,Community Novitiate					0.5	B	Clinical Epidemiology					1.5	84	Graduation Examination II					0.5	77								
Medical Biology					2	73	2015-2016 year 1-2 semester					Internal Medicine 1					3.5	91	-----The end of course list-----																
Natural Somatology 1					4.5	89	Academic English Reading					1	80	Surgery 2					3	94															
Social Practice					1	B	Pharmacology C					3	96	Gynaecology & Obstetrics					3	89															
Information Retrieval					1	93	Human Parasitology C					1	87	Ophthalmology					1.5	96															
2014-2015 year 1-2 semester					Pathophysiology B					2.5	81	Otorhinolaryngology					1.5	83																	
Advanced Mathematics (Medicine)					3	83	Morphology Experiment (B)					0.5	100	Dermatology & Venereal Disease					1.5	88															
Fundamental Principles of Marxism					3	84	Functional Experiment (A)					2.5	92	Neuropsychiatry					2	90															
Intensive Training of English					0.5	84	Mechanisms of Disease & Diagnosis B					2	91	Surgical Clinical Skills II					0.5	A															
College English Advanced Courses 1					2	83	Diagnostics A					4	87	Internal Medicine Clinical Skills I					1	94															
Physical Education III					0.5	81	Nursing skills I					0.5	94	Clinical Skills of Gynaecology & Obstetrics					0.5	95															
Cytology & Genetics Experiments					0.5	80	Basic Skill of Emergency Nursing					0.5	91	Other Specialized Clinical Skills					1	87															
Legend:																																			
1. Score & Grade Points																		Score						100-85		84-75		74-60		60					
																		Grade Point						4.0		3.0		2.0		0					
2.																		1)Courses are listed by acquisition date of highest score of each course; 2)Hundred mark system: Pass(>=60). Five-grade mark system: A(97,90-100),B(87,80-89),C(77,70-79),D(67,60-69),F(<60); 3) Course types: ● Minor; ▲ General Quality Education;* courses - study abroad,☆ Non-major.All these courses are excluded in the calculation of GPA and Average Score.												GPA: 3.62 Average Score: 86.76 CET-4: 585 CET-6: 583					
3. Main Status Changes:																		2014-09-16: Transfer major;																	







東南大學
SOUTHEAST UNIVERSITY

Certificate of Bachelor Degree

Certificate No. : 1028642018000270

This is to certify that **DING ZHAOYING**, *female*, born on *June 22, 1995*, majoring in *Clinical Medicine*, has studied in the *School of Medicine* of Southeast University from *August, 2013* to *June, 2018*, and has completed the requirements as stipulated in *a five-year* undergraduate program with satisfactory results and is hereby granted graduation.

Having satisfied all the conditions stipulated in the *Charter and Statutes of Southeast University*, the aforesaid student is awarded the degree of *Bachelor of Medicine*.

ZHANG GUANGJUN

Chairman of Academic Degree Committee

Date of issue: June 30, 2018



东南大学研究生成绩单
Southeast University Transcript of Academic Records



姓名
Name: 丁照莹DING ZHAOYING

学院
Department: 医学院School of Medicine

专业
Major: 内科学Internal Medicine

学号
Student ID: 183522

学制
Education System: 3years

培养层次
Degree: 硕士Master

入学时间
Admission Date: 2018-09

课程名称 Course	课程属性 Attribute*	学期 Semester	学时 Hours	学分 Credits	成绩 Scores
学位英语 Academic Degree English	学位课 D	1	36	0	90
学位英语 Academic Degree English	学位课 D	2	36	4	83
中国特色社会主义理论与实践研究 Study on the theory and Practice of Socialism with Chinese Characteristics	学位课 D	1	36	2	89
高级生物化学与分子生物学技术 The technology of senior biochemistry And molecular biology	学位课 D	2	86	3	76
免疫学原理与技术 Principles and Technology of Immunology	学位课 D	1	65	3	90
分子生物学B Molecular biology(B)	学位课 D	1	36	2	77
医学统计学 Statistics in Medicine/Medical Statistics	学位课 D	1	54	3	74
内科学进展 New advances in internal medicine	学位课 D	1	36	2	72.5
现代组织病理学技术 Technology of Modern Histopathology	非学位课 ND	1	36	2	88
医学科研方法论 Methodology for Medical Research	非学位课 ND	2	36	2	88
肾脏病学新进展 New advances in Nephrology	非学位课 ND	1	36	2	86
文献检索 literature search	非学位课 ND	1	36	2	87
自然辩证法概论 Introduction to dialectics of nature	非学位课 ND	1	18	1	89
实验室安全与医学实验技术入门 Biological safety and introduction of medical experiment technology	非学位课 ND	2	36	2	88
综合素养环节Comprehensive Literacy Courses					
实践环节 Practice Training	必修环节 C	3		2	通过P
研究生讲座 Public Lecture/Discipline Development Lecture	必修环节 C	3			通过P
学术报告学术交流 Academic Seminar and Academic Meeting	必修环节 C	3			通过P
【以下空白Blank below】					

应修总学分 Total Credit Required: 30

已修总学分 Total Credit Obtained: 32

REMARKS:
1.*D:degree course ND:non-degree course C:compulsory course RC: Relearned Course SE: Supplemental Exam B:pass N/A:not applicable

东南大学研究生院(盖成绩专用章)
Graduate School of Southeast University
Date: 2023/11/17



東南大學
SOUTHEAST UNIVERSITY

Certificate of Master Degree

Certificate No.: 1028632021001810

This is to certify that **DING ZHAOYING**, *female*, born on **June 22, 1995**, majoring in **Internal Medicine**, has satisfactorily fulfilled the requirements as stipulated for the Master's program and successfully defended the dissertation, is hereby granted the degree of Master of **Medicine** in accordance with the **Charter and Statutes of Southeast University**.

ZHANG GUANGJUN

Chairman of Academic Degree Committee

Date of issue: July 13, 2021



东南大学研究生成绩平均分、平均学分绩点证明

Southeast University Postgraduate Student Average Score, Grade Point Average Certificate

学号 Student Number	姓名 Name	年级 Grade	院系 Department	专业 Major	平均分 Average Score	平均学分绩点 (GPA) Grade Point Average (GPA)
183522	丁照莹 DING ZHAOYING	2018	医学院 School of Medicine	内科学 Internal Medicine	84.1	3.43

注:

1. 成绩等级与学分绩点对应关系

The corresponding relationship between grades and grade points

成绩 Grade	100-85	84-75	74-60	<60
绩点 Grade Point	4	3	2	0

2. 平均分=
$$\frac{\Sigma (\text{必修课、选修课成绩})}{\Sigma (\text{必修课、选修课门数})}$$

Average score =
$$\frac{\Sigma (\text{score of compulsory courses, elective courses})}{\Sigma (\text{number of compulsory and elective courses})}$$

3. 平均学分绩点 (GPA) =
$$\frac{\Sigma (\text{必修课、选修课的学分数} \times \text{学分绩点})}{\Sigma (\text{必修课、选修课的学分数})}$$

Average Grade Point (GPA) =
$$\frac{\Sigma (\text{Credits of compulsory courses, elective courses} \times \text{Grade Point})}{\Sigma (\text{Credits of compulsory courses, elective courses})}$$

【以下空白】

电话: 025-83792529、52090206



手机扫描仪
图片转Word



May 23, 2024

Re: Reference letter for Ms. Zhaoying Ding's Four Year Doctoral Fellowship application

To whom it may concern,

It is my great pleasure to support Ms. Zhaoying Ding's Four Year Doctoral Fellowship application. Zhaoying will join my research group in September 2024 as a PhD student in the Interdisciplinary Oncology Program (IOP) of University of British Columbia.

Zhaoying obtained her BSc degree in clinical medicine in 2018 from Southeast University, a prestigious 211 university in China. As an undergraduate student, she was involved in a research project entitled "Investigate the function of Foxg1 in preoptic area (POA) and ventral telencephalic patterning", which led to a peer-reviewed paper with her as a co-author. With an outstanding academic performance (accumulated GPA: 3.62) from her undergraduate study, Zhaoying was directly admitted to the MSc program in internal medicine at the same university with the support of a Graduate Academic Scholarship.


In the following 3 years (2018-2021), Zhaoying was working on her MSc project entitled "Therapeutic effect of extracellular vesicles derived from HIF prolyl hydroxylase domain enzyme inhibitor-treated cells on renal ischemia/reperfusion injury". There are a total of 4 peer-reviewed papers (2 as the first author) generated from her MSc project. Such a high research productivity is not commonly observed from a MSc student, and this clearly demonstrates her great research potential and diligence.

Since 2021 after obtaining her MSc degree, Zhaoying has been working as a resident physician in internal medicine at Nanjing Drum Tower Hospital, an esteemed teaching hospital in Nanjing, China. Six months ago she contacted me for a possibility of joining my research group as a PhD student. It is unusual for a physician to enter the IOP program as a PhD student and this demonstrates her passion for conducting cancer research. Zhaoying's project will be on the development of angiotensin II type 1 receptor-targeted radioligands for diagnosis and radioligand therapy of cancer. This is a project in the field of Radiopharmaceutical Sciences and has a very high clinical translation capability if promising candidates are generated from this project. In the past 10 years, we have successfully translated 4 radioligands developed by our trainees to the clinic for detection or radioligand therapy of cancer and there are more to come in the next 2 years.

With training in medicine, Zhaoying is an excellent candidate as a graduate student to conduct cancer research as she knows better what are the problems which needs to be solved in the clinic. Based on her past training records, she has demonstrated academic excellence, great potential and diligence to conduct research, and high research productivity. Therefore, I am convinced that Zhaoying will thrive in the next 4-5 years as a PhD student, and strongly recommend Zhaoying as a receipt of the Four Year Doctoral Fellowship.

Please let me know if you have any questions or require further information regarding Zhaoying's qualification as an award candidate.

Sincerely,

Kuo-Shyan Lin, PhD 

Professor, Department of Radiology, University of British Columbia

Distinguished Scientist, Department of Molecular Oncology, BC Cancer Research Centre

E-mail: klin@bccrc.ca; Phone: 1-604-675-8208

Dear Sir or Madam:

It is with my great enthusiasm to recommend ZhaoYing Ding for the PhD Program. During her tenure as a master's student in Dr. BiCheng Liu's lab, I was the senior research assistant and had the opportunity to directly oversee her master thesis project, during which she explored the therapeutic effect of extracellular vesicles derived from HIF prolyl hydroxylase inhibitor-treated cells on mice with acute kidney injury (AKI) by renal ischemia/reperfusion.

ZhaoYing has a great passion and dedication towards research. She is committed, enthusiasm, humble and optimistic. For example, she faces initial setbacks with constant failure of the fluorescence antibody staining despite of following the recommended dilution. ZhaoYing displayed remarkable patience, determination and positivity. She doubled check the protocols and conducted careful literature review. She also reflected on the experimental procedure step by step and took careful control on each step. Eventually, she was able to optimize the antibody staining protocol and produced high quality imaging results. ZhaoYing's perseverance, patience and positivity makes her stand out among all the students I have previously supervised.

Working and supervising Ms Ding had been delightful. Her warm personality and team spirit have significantly contributed to the team dynamic. She was always ready to help her lab colleagues when they are in need. For example, ZhaoYing quickly mastered the surgical techniques for creating AKI mice models and generously shared her knowledges with other students. Additionally, ZhaoYing played a key role in fostering a supportive lab environment by organizing group events such as outing for lunch and welcoming/farewell parties for lab members. I shall say we were very lucky to have her in the lab as she really brought a good vibe.

Furthermore, Zhaoying maintains a commendable balance between work and life. Undoubtedly, ZhaoYing is hardworking and dedicated in the lab. Meanwhile, ZhaoYing took a good care of her wellness. Her varied interests, from music to sports, have allowed her to cultivate a well-rounded life.

ZhaoYing is very determined about her future of becoming a scientist. While supervising her, I had learned about her career trajectory for studying cancer pathophysiology and a desire to address the unmet needs in cancer treatment; such interests have been motivated by her clinical experience of taking care of patients suffering cancer. She aims to complete a PhD and a postdoctoral fellowship in cancer research and eventually become a leading scientist in either the academic or industry.

In summary, Ms Ding's exceptional talents, determination, passion about research make her an outstanding candidate for the PhD program.

Please do not hesitate to contact me for any further information.

Warm regards,

TaoTao Tang

A handwritten signature in black ink, reading 'TaoTao Tang' in a cursive, flowing style.