

# 浙江大学爱丁堡大学联合学院

Zhejiang University - University of Edinburgh Institute

2021年 年报

## 2021 Annual Report



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ZJE

浙江大学爱丁堡大学联合学院  
ZJU-UoE INSTITUTE



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# 学院概况 About Us

浙江大学爱丁堡大学联合学院 (Zhejiang University-University of Edinburgh Institute, ZJE) 是浙江大学和英国爱丁堡大学合作设立的非独立法人中外合作办学机构, 旨在培养具有卓越学识、创新精神和国际视野的生物学优秀人才。学院汇聚国际一流师资, 设有双学位本科专业2个, 双学位博士项目、浙江大学单学位博士项目、浙江大学单学位硕士项目、爱丁堡大学单学位博士及硕士项目各1个。其中, 双学位项目学生顺利完成学业并且达到两校毕业要求后, 将被授予两校学位, 并获得浙江大学毕业证书。此外, 爱丁堡大学单学位硕士、博士项目属爱丁堡大学建校以来首次将其单方位学位办学项目放在英国本土以外培养。

截止2021年11月30日, 在校本科生429人 (含留学生10人), 在校研究生123人 (含留学生7人)。

The Zhejiang University-University of Edinburgh Institute (ZJE) is a collaboration in the field of Biomedical Sciences between Zhejiang University in China and The University of Edinburgh in Scotland, United Kingdom. These two premier universities have established a joint international research institute at the International Campus of Zhejiang University in Haining, Zhejiang, building on the existing strengths of both institutions to foster collaborations in undergraduate and postgraduate teaching and research. The Institute provides education programmes that promote academic excellence, leadership, innovative and global vision in the next generation of Biomedical Scientists.

Our programme brings together the extensive knowledge and expertise of academic staff in the Zhejiang University School of Basic Medical Sciences and from the School of Biomedical Sciences from the Edinburgh Medical School. This new and exciting collaboration is the first of its kind for both universities, offering a unique opportunity in biomedical science training. Our "ZJU PLUS" advanced higher education model will bring students into a scientific field of critical importance for health and wellbeing in the 21st century.

ZJE has two dual degree undergraduate programmes of biomedical science and biomedical informatics, one dual degree PhD programme, one ZJU degree PhD programme, one ZJU degree master programme, one UoE degree PhD programme and one UoE degree master programme.

As of 30 November 2021, there are 429 undergraduates (including 10 international students) and 123 Postgraduate students (including 7 international students).

# 教育教学 Education

2021年ZJE建设沉浸式国际化创新人才培养模式，继续推进本-硕-博培养体系的发展。本年度学院顺利通过中外合作办学首轮评估，各合作办学项目资质顺利延期；同时，学院作为中英合作办学联盟主席单位获批英国British Council的中英合作办学专项基金，引领中英合作教育从本科生教育纵深推向实质科研合作。

ZJE initialized education internationalization and collaboration for the purpose of creating an innovative education model. In 2021 ZJE continued to adhere to the UG-PG training system. In this year, ZJE successfully passed the first round of evaluation of Chinese-Foreign cooperation in running schools, and the qualification of various cooperative programmes was successfully extended. As the chairman unit of the UK-China Joint Institute Alliance, it was approved by the British Council's special fund for Sino British cooperative education, leading the Sino British cooperative education from undergraduate education to substantive scientific research cooperation.

## 本科生 Undergraduate

### 招生 Admission

ZJE持续推进以综合评价为主的招生模式招收优秀学生，进一步拓展录取学生生源地至14个省份，共招收137位新生。师资行政全员参与，首次做到百分之百落实全部招生名额，招生位次取得显著提升，录取最高分大幅度提升，8个省市录取最低位次取得提升，单招省份录取位次均为全省1%。

ZJE continued to promote the enrollment model based on comprehensive evaluation to recruit excellent students, further expanded the source of students to 14 provinces, all ZJE faculty and staff joined the work of enrollment. For the first time, all enrollment quota was fully implemented, the enrollment ranking was significantly improved, the highest admission score was significantly improved.

### 教学 Teaching

伴随招生规模的扩大，学院积极探索本科教学管理模式的升级，夯实了课程主讲教师责任，优化了教学质量监督体系，不断更新教学相关细则，获得了良好的教学实践效果。

学院《生物医学创新人才国际联合培养模式》获得2021年浙江大学教学成果一等奖，浙江省教学成果二等奖（推荐）；《神经科学原理3》（PoN3）和《整合生物医学科学1》（IBMS1）入选省级一流本科课程；《生物信息学导论1》（IBI1）和《分子生物学与表观遗传学3》（MBE3）入选学校一流本科课程建设清单。

With the expansion of enrollment scale, ZJE actively explored the upgrading of undergraduate teaching management mode and consolidated the responsibility of course lecturer, optimized the teaching quality supervision system, constantly updated the relevant teaching regulations, and achieved good teaching practice results.

ZJE teaching project *International Joint-supervision Cultivation Mode of Innovative talents in Biomedical Sciences* won Zhejiang University Teaching Achievement First Prize and recommended to Zhejiang Province Teaching Achievement Second Prize. Integrative Biomedical Sciences 1 and Principles of Neuroscience 3 were selected into the Provincial first-class undergraduate course, Introduction to Biomedical Informatics 1 and Molecular Biology and Epigenetics 3 were selected into the ZJU first-class undergraduate curriculum construction list.

## 毕业生 Graduate

2021届本科毕业生60人，均为生物医学专业。78.3%的毕业生选择国内外继续深造，其中TOP20世界名校（QS2022）录取率66%；深造学生中，53.2%攻读全奖博士学位，46.8%攻读硕士学位，境外深造率达64.6%。

There are 60 undergraduates in the class of 2021, all majored in biomedical science. 78.3% of them chose to continue their studies, among which 66% were admitted by TOP20 world universities (QS2022), 64.6% were accepted by overseas universities. Besides, 53.2% of graduates who have pursued advanced studies were accepted by doctoral programs with full awards, 46.8% have chosen overseas elite universities master's programs.



## 科研训练 Research Training

在2021年浙江大学SRTP(Student Research Training Program)中，学院共30组学生完成自主选题并顺利通过开题答辩，获得国家级立项2项，省级立项2项，获得学校与学院相关部门下发科研经费资助52600元。

受全球疫情影响，大部分学生选择不出国（境）进行寒暑假研，在国内知名高校与研究所交流学习，研习单位包括中国科学院、北京大学、清华大学、清华北大生命科学联合中心等。

本年度ZJE本科生以第一作者发表英文论文共6篇，其中被SCI和EI收录5篇；另有13篇论文以共同作者参与发表。

In 2021 ZJU SRTP (Student Research Training Program), 30 groups of students completed independent topic selection and successfully passed the opening defense, obtained 2 national projects and 2 provincial projects, and obtained 52600 yuan of research funds issued by school.

Due to the impact of Covid-19, most of the students chose to conduct their winter and summer research in the domestic top universities and institutes, including the Chinese Academy of Sciences, Beijing University, Tsinghua University, Tsinghua University-Peking University Joint Center for Life Sciences, etc.

This year, ZJE undergraduates published a total of 6 English papers as the first author, among which 5 papers were included by SCI and EI. Another 13 papers were published as co-authors.

发表文章 Publication list

作者 Authors	论文标题 Title	杂志名称 Journal
<b>Luoan Shen, Qinyi Gan</b> , Youcheng Yang, Cesar Reis, Zheng Zhang, Shanshan Xu, Tongyu Zhang, Chengmei Sun	Mitophagy in Cerebral Ischemia and Ischemia/Reperfusion Injury	Front. Aging Neurosci.
<b>Zilan Zhu, Ziyi Zheng</b> , Jian Liu	Comparison of COVID-19 and Lung Cancer via Reactive Oxygen Species Signaling	Frontiers in Oncology
<b>Yuefeng Wu</b>	Screening for hub genes and signaling pathways of CD8+ T cells in systemic lupus erythematosus using bioinformatics.	E3S Web of Conference
<b>Jixin Wang</b> , Xiangjun Yin, Yin-Qiang Zhang, Xuming Ji	Identification and validation of a novel immune-related Four-lncRNA signature for lung adenocarcinoma	Frontiers in Genetics
Yan Xu, <b>Zheng Zhang</b> , Hehui Wang, Wu Zhong, Chengmei Sun, Wei Sun, Hongwei Wu	Zoledronic Acid-Loaded Hybrid Hyaluronic Acid/Polyethylene Glycol/Nano-Hydroxyapatite Nanoparticle: Novel Fabrication and Safety Verification	Frontiers in bioengineering and biotechnology

## 素质培养

学院遵循各年级学生成长规律，把握重要时间节点开展仪式教育，举办新生欢迎仪式、校友树认领仪式、“生来倔强，医路逐梦”毕业晚会等，依托年级大会、班团立项、主题团日组织开展爱国主义教育、诚信教育、素质拓展。组织举办ACT系列讲座7场，涵盖海外留学申请经验、推免经验分享及企业宣讲等内容，共吸引超600人次参与，精准对接学生生涯发展需求，为就业质量提供保障。

ZJE has followed the growth rules of all grades' students, and grasped important time points to carry out ritual education, held welcome ceremony, alumni tree recognition ceremony, graduation ceremony, etc. Relying on the grade assembly, class and league project approval, and theme communist youth league day activities to carry out patriotism education, integrity education, and quality development. Organized 7 ACT talks, covering overseas study application experience sharing, exam-exempted application experience sharing, and corporate publicity, which attracted more than 600 people to participate, precisely meeting the needs of students' career development and guaranteeing the quality of employment.



## 荣誉

2020-2021学年我院本科生共获得：国家奖学金5人、浙江省政府奖学金9人、南都创新奖学金1人、尚德学子奖学金1人、浙江大学奖学金94人（一等14人、二等23人、三等57人）、浙江大学优秀学生32人、浙江大学“标兵”系列荣誉称号186人、学院学业奖学金79人（一等9人、二等26人、三等44人）。4位获得“第七届浙江省国际‘互联网+’大学生创新创业大赛国际赛道银奖”。

In the academic year of 2020-2021, ZJE students have won 5 national scholarships, 9 Zhejiang provincial government scholarships, 1 Nandu innovation scholarship, 1 Shangde student scholarship, 94 Zhejiang University Scholarships (14 first-class, 23 second-class, and 57 third-class students), 32 outstanding students of Zhejiang University, 186 honorary titles of "model" of Zhejiang University, and 79 academic scholarship of ZJE (9 first-class, 26 second-class and 44 third-class). Four students won the silver medal of international tract in the 7th China International "Internet Plus" Students Innovation and Entrepreneurship Competition.

## 研究生 Postgraduate

### 招生 Admissions

本年度学院研究生数量稳定增长，研究生新生共注册报到博士生23人、硕士生29人，学院在读研究生总数达123人。

首届爱丁堡大学单学位研究生项目本年度正式启动，首批入学研究型硕士生9名和博士生8名，其中76%的新生来自澳大利亚悉尼大学、英国谢菲尔德大学、英国贝尔法斯特女王大学和美国波士顿大学等海外知名高校。这一项目开创了爱丁堡大学办学史上将研究生学位在国外授予的先河。该项目采用自主招生方式，按爱丁堡大学的入学标准招录，学生入学后全程在ZJE进行培养，学业合格者，将被授予爱丁堡大学硕士学位或博士学位。

This year, the number of postgraduate students of ZJE has been increasing steadily. The enrollment of Ph.D. students and master students is 23 and 29. The total number of graduate students has reached 123.

The first UoE Postgraduate programme was officially launched this year, 9 postgraduate students and 8 doctoral students have enrolled. 76% of them come from elite overseas universities, such as the University of Sydney, University of Sheffield, Queen's University Belfast, and Boston University. The programme has pioneered UoE's history that a postgraduate degree will be awarded abroad for the first time. This programme adopts the independent recruitment method and based on the admission standards of the University of Edinburgh. Students will be cultivated in ZJE after enrollment, and those who pass the study will be awarded a master degree or a PhD degree from the University of Edinburgh.



## | 素质培养 Quality Training

ZJE成功申办校级示范性“研学空间”(Y-Space), 作为浙江大学第一批二十个示范性“研学空间”之一, Y-Space旨在为研究生及导师打造交流和研讨的知识和德育共同体, 为学术、科研、生活注入新活力。

ZJE successfully bid for university-level demonstration "Research Space" (Y-Space). As one of the first batch of 20 demonstrations "research Spaces" of Zhejiang University, Y-Space aims to create a knowledge and moral education community for postgraduate students and tutors to exchange and discuss, and inject new vitality into academic, scientific research, and life.



今年7月浙江大学“凌云”计划研究生赴苏州工业园区(SIP)社会实践活动在苏州工业园区生物医药产业园(BioBAY)顺利举行, 体现了ZJE致力于培养硕士研究生的研究技能、生物医学实验技术和其他广泛的可转移技能, 为学生继续读博深造打下坚实基础, 为其今后的职业生涯带来更多思考。

In July this year, Zhejiang University's "Lingyun" Program for graduate students to Suzhou Industrial Park (SIP) social practice activity was successfully held in Suzhou Industrial Park Biomedical Industrial Park (BioBAY), reflecting ZJE's commitment to cultivate graduate students' research skills, biomedical experimental techniques, and other broad transferable skills. It will lay a solid foundation for students to continue their doctoral studies and bring more thinking for their future careers.

## | 荣誉 Honor

2020-2021学年我院研究生共获得: 国家奖学金2人(博士、硕士各一人)、CASC三等奖学金1人、三好研究生2人、优秀研究生10人、社会工作单项奖1人。

In the academic year of 2020-2021, ZJE's postgraduate students have won 2 National Scholarships (1 PhD student, 1 master student), 1 CASC Third-class Scholarship, 2 Merit Graduate Students, 10 Outstanding Graduate Students, and 1 Individual Social Work Award.



# 科学研究 Research

2021年度, 学院科研项目立项成绩亮眼。获批国家自然科学基金8项, 其中包括创新研究群体项目1项, 面上项目3项, 青年科学基金项目4项; 浙江省自然科学基金3项, 其中包括杰出青年科学基金项目1项, 重点项目1项及企业创新联合基金1项; 中央高校专项3项, 浙江大学李达三·叶耀珍再生医学发展基金2项。在高水平学术期刊发表文章25篇(第一作者或通讯作者单位为ZJE)。

In 2021, ZJE has gained 8 National Natural Science Foundation programs, 1 is Innovative Research Groups Project, 3 are the General Projects and 4 are the Youth Scientists Funds; 3 Natural Science Funds of Zhejiang Province, 1 is Distinguished Young Scholars. 1 is key project and 1 is Huadong Pharmaceutical Joint Fund/Key Project. 3 Fundamental Research Funds for the Central Universities, 2 Dr. Li Dak Sum & Yip Yio Chin Regenerative Medicine Development Fund of Zhejiang University. Also, ZJE has published 25 SCI papers this year. (The first author or corresponding author address is ZJE)

## 科研项目 Research Projects

项目类别 Project Type	项目名称 Project Title	项目负责人 PI
国家自然科学基金 National Natural Science Funds of China 创新研究群体项目 Innovative Research Groups Project	运动系统组织工程与再生研究 Research on tissue engineering and regeneration of motor system	欧阳宏伟 Hongwei Ouyang
国家自然科学基金 National Natural Science Funds of China 面上项目General Project	鉴定和研究肿瘤干细胞存在的新颖上皮-间质中间体 (EMI) 细胞亚群 Identify and study novel epithelial mesenchymal intermediate (EMI) cell subsets existing in tumor stem cells	郭伟 Wei Guo
国家自然科学基金 National Natural Science Funds of China 面上项目General Project	SMAD4通过调控染色质三维结构抑制肺癌发生发展的机制研究 Investigation of the Mechanism of SMAD4 regulating 3D Chromatin Architecture to Suppress Lung Cancer Development	刘坚 Jian Liu
国家自然科学基金 National Natural Science Funds of China 面上项目General Project	LTR5 Hs逆转座子在人是生殖细胞发育分化中的作用及其机制研究 Understand the function and mechanism of LTR5 Hs retrotransposon in human primordial germ cell development	刘琬璐 Wanlu Liu
国家自然科学基金 National Natural Science Funds of China 青年科学基金项目 Youth Scientists Fund	基于TCR测序分析EAE发病过程中CD8 T细胞的功能和作用机制 Study the function and mechanism of CD8 T cells in EAE disease based on TCR-sequencing	白亚丹 Yadan Bai
国家自然科学基金 National Natural Science Funds of China 青年科学基金项目 Youth Scientists Fund	对基金突变显隐形的系统定量研究以及精准预测 Systematic quantitative analysis and prediction on dominance and recessivity of genetic mutations	李香花 Xianghua Li

项目类别 Project Type	项目名称 Project title	项目负责人 Project manager
国家自然科学基金 National Natural Science Funds of China 青年科学基金项目 Youth Scientists Fund	SYX-2调控线虫表皮细胞膜修复的动态分子机制研究 Study on the molecular dynamic mechanism of SYX-2 in regulating epidermal membrane repair in C. elegans	孟曦男 Xinan Meng
国家自然科学基金 National Natural Science Funds of China 青年科学基金项目 Youth Scientists Fund	Consequences of MALTI mutation for B cell tolerance	James Qun Wang
浙江省自然科学基金 National Natural Science Funds of Zhejiang Province 重点项目 Key Project	DND1通过调控poly(A)加尾参与人原始生殖细胞发育的机制研究 Mechanistic Investigation of DND1 in Regulating the Development of Human Primordial Germ Cells via mRNA Polyadenylation	陈迪 Di Chen
浙江省自然科学基金 National Natural Science Funds of Zhejiang Province 华东医药联合基金/重点项目 Huadong Pharmaceutical Joint Fund/Key Project	光热蛋白微凝胶的设计及其在肿瘤诊疗中的应用 Photothermal Protein Nanogels for Multimodality Cancer Therapy	黄雯雯 Wenwen Huang
浙江省自然科学基金 National Natural Science Funds of Zhejiang Province 杰青项目 Distinguished Young Scholars	LKB1 调控的染色质三维结构在肺鳞癌发病中的作用机制 Mechanistic Investigation of Three-dimensional Chromatin Structure Regulated by LKB1 in Regulating Lung Squamous Cell Carcinoma Development	刘坚 Jian Liu
中央高校专项 Fundamental Research Funds for the Central Universities 青年科研创新专项 Youth Research and Innovation Project	星形胶质细胞自发性钙振荡调控内体转运的分子机制及其功能研究 Functional study of spontaneous Calcium oscillation in regulating endosomal translocation in astrocytes	洪智 Zhi Hong
中央高校专项 Fundamental Research Funds for the Central Universities 青年科研创新专项 Youth Research and Innovation Project	LTR5 Hs逆转座子在人原始生殖细胞发育分化中的作用及其机制研究 Understand the function and mechanism of LTR5 Hs retrotransposon in human primordial germ cell development	刘琬璐 Wanlu Liu
中央高校专项 Fundamental Research Funds for the Central Universities 科研发展专项 Research and Development Project	基于组学分析和生物材料学的骨关节炎分型和骨关节再生的中英国际合作研究 International collaborative research on materials and data bank for osteoarthritis	黄雯雯 Wenwen Huang
浙江大学李达三·叶耀珍再生医学发展基金 Dr. Li Dak Sum & Yip Yio Chin Regenerative Medicine Development Fund of Zhejiang University 老龄化应对科技专项计划 Special Technology Plan for Aging Response	利用植物生物器大规模生产类丝弹性蛋白等再生修复材料 Scale-up Production and Biomedical Applications of Recombinant Silk-elastin Proteins	黄雯雯 Wenwen Huang
浙江大学李达三·叶耀珍再生医学发展基金 Dr. Li Dak Sum & Yip Yio Chin Regenerative Medicine Development Fund of Zhejiang University 老龄化应对科技专项计划 Special Technology Plan for Aging Response	骨关节炎分子分型的临床应用研究 Clinical Application of Molecular Classification of Osteoarthritis	刘坚 Jian Liu



部分文章 Part of Publications

作者 Authors	论文标题 Title	杂志名称 Journal
Aaron T. Irving, Matae Ahn, Geraldine Goh, Danielle E. Anderson & Lin-Fa Wang	Lessons from the host defences of bats, a unique viral reservoir	Nature
Arinjay Banerjee 1, Andrew C Doxey 2, Karen Mossman , <b>Aaron T Irving</b>	Unraveling the Zoonotic Origin and Transmission of SARS-CoV-2	Trends in Ecology & Evolution
Xiaohong Tan, Lu Tong, Lin Li, Jinjin Xu, Shaofang Xie, Lei Ji, Jujiang Fu, Qingwu Liu, Shihui Shen, Yun Liu, Yanhui Xiao, <b>Feiran Gao</b> , et al., Lei Li, Dianwen Song#, Xiao Yang#, <b>Jian Liu</b> , and Xiaotao Li.	Loss of Smad4 promotes aggressive lung cancer metastasis by de-repression of PAK3 via miRNA regulation.	Nature Communications
<b>Wanlu Liu</b> , Javier Gallego-Bartolomé, <b>Yuxing Zhou</b> , Zhenhui Zhong, Ming Wang, Somsakul Pop Wongpalee, Jason Gardiner, Suhua Feng, Peggy Hsuanyu Kuo & Steven E. Jacobsen	Ectopic targeting of CG DNA methylation in Arabidopsis with the bacterial Sssl methyltransferase	Nature Communications
<b>Xuexiao Jin</b> , Qin Xu, Chengfei Pu, <b>Kaixiang Zhu</b> , <b>Cheng Lu</b> , Yu Jiang, Lei Xiao, Yongmei Han, <b>Linrong Lu</b>	Therapeutic efficacy of anti-CD19 CAR-T cells in a mouse model of systemic lupus erythematosus	Cell Mol Immunol
Jingxiu Xu, <b>Xinan Meng</b> , Qingxian Yang, Jianqin Zhang, Wei Hu, Hongying Fu, Jack Wei Chen, Weirui Ma, Andrew D Chisholm, Qiming Sun, <b>Suhong Xu</b>	Redox-sensitive CDC-42 clustering promotes wound closure in C. elegans	Cell reports
Zhenhui Zhong, Suhua Feng, Sascha H. Duttke, Magdalena E. Potok, <b>Yiwei Zhang</b> , Javier Gallego-Bartolomé, <b>Wanlu Liu</b> , and Steven E. Jacobsen	DNA methylation-linked chromatin accessibility affects genomic architecture in Arabidopsis	PNAS
<b>Xiaoqing Wang</b> , Belinda Loh , Fernando Gordillo Altamirano, Yunsong Yu, Xiaoting Hua, <b>Sebastian Leptihn</b>	Colistin- phage combinations decrease antibiotic resistance in A. baumannii via changes in envelope architecture	Emerg Microbes Infect.
Lei Chen, Xianchao Zhou, Tao Zeng, Xiaoyong Pan, Yu-Hang Zhang, Tao Huang, <b>Zhaoyuan Fang</b> , Yu-Dong Cai	Recognizing Pattern and Rule of Mutation Signatures Corresponding to Cancer Types	Front Cell Dev Biol.
Sreeram Vallabhaneni, <b>Jian Liu</b> , Marion Morel , <b>Jixin Wang</b> , Francesco J DeMayo, Weiwen Long	Conditional ERK3 overexpression cooperates with PTEN deletion to promote lung adenocarcinoma formation in mice	Mol Oncol
<b>Zilan Zhu</b> , <b>Ziyi Zheng</b> , <b>Jian Liu</b>	"Comparison of COVID-19 and Lung Cancer Via Reactive Oxygen Species Signaling"	Frontiers in Oncology
Yan Xu, <b>Zheng Zhang</b> , Hehui Wang, Wu Zhong, Chengmei Sun, Wei Sun, <b>Hongwei Wu</b>	Zoledronic Acid-Loaded Hybrid Hyaluronic Acid/Polyethylene Glycol/Nano-Hydroxyapatite Nanoparticle: Novel Fabrication and Safety Verification	Front Bioeng Biotechnol
<b>Yixin Guo</b> , <b>Ziwei Xue</b> , <b>Ruihong Yuan</b> , Jingyi Jessica Li, William A Pastor, <b>Wanlu Liu</b>	RAD: a web application to identify region associated differentially expressed genes	Bioinformatics
Yabin Chen, <b>Zhaoyuan Fang</b> , Ying Tang, Yujuan Jin, Chenchen Guo, Liang Hu, Yang Xu, Xidong Ma, Jie Gao, Mei Xie, Xuelei Zang, Sanhong Liu , Haiquan Chen, Roman K Thomas, Xinying Xue, Hongbin Ji , Luonan Chen	Integrative analysis of multi-omics data reveals the heterogeneity and signatures of immune therapy for small cell lung cancer	Clinical and Translational Medicine

科研平台 Research Platform

本年度，学院公共技术平台正式启动，全面支持校区科研单位的各种需求，共享大型仪器37台，价值超过3000万元，为校内校外共计37个课题组提供了科研服务支撑。

学院动物实验中心自本年度1月起正式运行级屏障环境饲养小鼠，11月份新增sp级屏障环境饲养大鼠。为院内11个课题组和其他合作科研院所包括功能高分子国际研究中心，东南大学等提供了科研配套，支撑科研成果产出。

This year, ZJE core facility was officially launched to fully support the various needs of scientific research institutions in the campus, shared 37 large instruments (worth more than 30 million yuan), and has provided service support for a total of 37 research groups inside and outside the campus.

ZJE laboratory animal facility officially operated SPF mice since January and added SPF rat in November. It has provided research support for 11 research groups and other cooperative institutes, including International Research Center for Functional Polymers and Southeast University, and supported the output of scientific research achievements.

学术氛围 Academic Atmosphere

Biomed-X 系列讲座 Biomed-X Research Seminar

为打造学院学术品牌，本年度线上线下学术交流活动稳定开展。全年学院共举办16次Biomed-X系列学术分享活动，邀请来自中国科学院研究所，华东师范大学生命科学学院，西湖大学等专家学者分享自己科研领域最新进展。

Biomed-X Research Seminar aims to establish an exchange platform for ZJE faculty and students, and to promote research cooperation and arouse research inspiration. A total of 16 seminars were held this year.



Weekly Symposium 系列讲座 Weekly Symposium

ZJE Weekly Symposium是ZJE于2021年开始举行的，由学院各PI实验室学生为主讲人的学生讲座系列，本年度共举办了8次活动。此讲座为学生及老师们提供了互相认识、交流科研、互相学习与帮助的平台，塑造更有活力的学术氛围。

ZJE weekly symposium is a seminar series held by ZJE since 2021, with students from ZJE PI laboratories as the main speakers. A total of 8 seminars were held this year. ZJE weekly symposium provides a platform for students and faculty to know each other, exchange scientific research, and help each other, and create a more dynamic academic atmosphere.



我们拥有一支浙江大学、爱丁堡大学兼聘及全球招聘的优秀教授们组建的精英教学队伍。本年度，师资人数稳步增加，已形成一支26人的全职在岗教师团队，包括教授4人，副教授5人，助理教授15人，讲师2人。师资队伍中外籍师资占比43%，来源横跨各大洲，多元思想碰撞交融、交叉创新。

学院面向全球积极招收优秀博士后，加强学科梯队建设，提升学科科研实力。本年度新增3位博士后，形成的19人的优质博士后队伍中，58%毕业于全球排名TOP100的名校。

Our faculty comprises distinguished professors, famous experts, experienced senior teaching fellows and outstanding young scholars from Zhejiang University, the University of Edinburgh and from global recruitment. This year, the number of ZJE full time faculty has increased steadily, and a 26-person full-time faculty team has been formed, including 4 professors, 5 associate professors, 15 assistant professors and 2 lecturers. 43% of them are international faculty which come from all continents, ZJE faculty team is full of collision, blending and cross innovation of multiple ideas.

ZJE actively recruits excellent postdoctoral fellows around the world, strengthens the construction of discipline echelon and improves the strength of discipline scientific research. Four postdoctoral fellows joined ZJE this year, formed a high-quality postdoctoral team of 19 people, 58% of ZJE postdoctoral fellows graduated from the world's top 100 universities.

# 人才队伍

## Academic Team

## 荣誉 Award

**Sue Welburn:** 西湖友谊奖, 浙江大学“全球合作大使”

Sue Welburn: Zhejiang West Lake Friendship Award, Zhejiang University Global Partnership

**刘坚:** 浙江省自然科学基金委员会 杰青项目

Jian Liu: Natural Science Foundation of Zhejiang Province Distinguished Young Scholars

**李香花:** 创新嘉兴精英引领计划领军人才

Xianghua Li: Jiaxing Talent

**James Qun Wang:** 创新嘉兴精英引领计划领军人才

James Qun Wang: Jiaxing Talent

**Prasanth Manohar:** 噬菌体研究与治疗年会 青年科学家奖

Prasanth Manohar: The Young Scientist Award from The International Conference On Bacteriophage Research

**多位师资**获爱丁堡大学学生会教学奖 EUSA Teaching Award

Outstanding Course: Joanne Murray, Richard Sloan, Kuan Yoow Chan

Supervisor of the Year: Rob Young, Sebastian Leptihn, John Menzies

Personal Tutor of the Year: Sander van den Driesche

Teacher of the Year: Nico Romano, Sebastian Leptihn, Melanie Stefan

## 新晋师资与博后 New ZJE Members

James Q. Wang博士于2009年毕业于墨尔本大学, 获生物化学一等荣誉学士学位。2016年, 他获得了澳大利亚国立大学杜瓦·米尔恩奖 (Dewar Milne Prize) 的免疫学博士学位。他在美国国立卫生研究院接受博士后培训, 并于2021年3月加入ZJE担任助理教授。他的研究兴趣为免疫耐受、恶性肿瘤和发展。

Dr. James Q. Wang completed his bachelor's degree with first class Honors in biochemistry from the University of Melbourne in 2009. He earned his PhD in Immunology with the Dewar-Milne Prize from the Australian National University in 2016. He undertook postdoctoral training at the National Institutes of Health in the USA and joined the ZJU-UoE institute as an assistant professor in March 2021. He has research interests in immunological tolerance, malignancies and development.



**James Qun Wang**

研究员/Assistant Professor

方兆元博士本科毕业于浙江大学, 博士毕业于中国科学院研究生院。先后在中国科学院上海生命科学研究院和生化细胞所担任助理研究员、副研究员, 并于2021年加入ZJE。研究领域为生物信息学和系统生物学。

Dr. Zhaoyuan Fang completed his bachelor's degree from Zhejiang University. He received his PhD at Chinese Academy of Sciences in 2012. He was an associated faculty member in Chinese Academy of Sciences, Shanghai, and joined ZJE at 2021. His main research interest is bioinformatics and systems biology.



**方兆元**

**Zhaoyuan Fang**

研究员/Assistant Professor

孟令锋博士于2013年毕业于华中科技大学生命科学与技术学院, 随后加入杜克大学医学院从事博士后研究, 2020年加入杜克大学环境学院担任研究助理, 2021年加入浙江大学爱丁堡学院担任研究员。他的实验室以模式生物线虫为研究对象, 结合荧光活体成像、分子遗传学、基因编辑等技术, 研究神经发育调控机理。具体包括神经环路中电突触的发育调控, 以及线粒体DNA在神经发育和衰老过程的调控。

Dr. Lingfeng Meng obtained his doctorate in 2013 at Huazhong University of Science and Technology, then joined the Duke University Medical Center as a postdoctoral fellow. In 2020, he moved to Duke University's Nicholas School of the Environment, where he worked as a research assistant. In 2021, Lingfeng joined the ZJU-UoE Institute as an assistant professor. He uses the tiny roundworm called *Caenorhabditis elegans* as a model, combined with cutting-edge fluorescent live imaging, molecular genetics, and genome editing approaches, to address questions related to neural development, particularly interested in the regulation of electrical synapses and mitochondrion DNA during neural development and aging.



**孟令锋**

**Lingfeng Meng**

研究员/Assistant Professor





袁渊

Yuan Yuan

研究员/Assistant Professor

袁渊博士毕业于美国南佛罗里达大学生物医学工程专业，随后加入美国南加州大学颅颌面分子生物中心 (CCMB) 从事博士后研究员工作。实验室研究方向为颅颌面发育，颅神经嵴细胞分化调控及稳态维持，组织损伤的修复与再生。

In 2016, Dr. Yuan graduated from the University of South Florida with a degree in biomedical engineering, and then joined the Center for Craniofacial Molecular Biology (CCMB) at the University of Southern California as a postdoc. He became senior research associate in 2020. In December 2021, he joined ZJE as an assistant professor. The research interest of the laboratory is craniofacial development, neural crest cell regulation and homeostasis, tissue repair and regeneration.



Dmytro Shytikov

讲师/Lecturer

Dmytro Shytikov博士是ZJE的讲师。他于2015年博士毕业于基辅国立大学。Dmytro Shytikov博士的研究方向为免疫反应机制、适应性免疫系统与天然免疫系统相互作用以及免疫系统衰老机制等方面。

Dr. Dmytro Shytikov is a lecturer at the ZJE. He received his Ph.D. in Immunology from Taras Shevchenko National University of Kyiv in 2015, Dmytro is highly interested in studying mechanisms of the immune response, interactions of the adaptive and innate immune system, and the mechanisms of the immune system aging.



Hugo Carlos Samano Sanchez

讲师/Lecturer

Hugo Carlos Samano Sanchez 博士是ZJE的讲师，他博士毕业于海德堡大学，曾在爱丁堡大学进行博士后研究工作。他的研究领域为生物信息学，包括基因组学、脂质组学等。

Dr. Hugo C. Samano Sanchez completed his PhD degree in computational biology at the European Molecular Biology Laboratory in Heidelberg, Germany. Upon graduation, he worked as a postdoc at the University of Edinburgh. Dr. Samano's main research interests are protein bioinformatics, genomics, evolution and host-microbe interactions. Currently, he is a lecturer at Zhejiang University-University of Edinburgh.

博士毕业于中国科学院昆明动物研究所，博士期间主要从事灵长类大脑进化与转基因猕猴认知功能的研究，博士后课题将围绕人原始生殖细胞样细胞开展，主要研究其亚细胞结构与RNA调节功能。

Dr. Jin Jiang graduated from Kunming Institute of Zoology, Chinese Academy of Sciences. During his Ph.D. was focused on the primate brain evolution and transgenic monkey's cognitive functions. He will focus on human primordial germ cell like cells (PGCLCs), mainly study PGCLC subcellular non-membrane structures and RNA regulation.



姜瑾

Jin Jiang

导师：陈迪博士

Supervisor: Dr. Di Chen  
博士后 Post-doc

博士毕业于浙江大学医学院，主要致力于在体细胞膜修复、组织再生等研究领域。博士后将继续致力于在体细胞膜修复和再生医学等研究领域，利用秀丽隐杆线虫探索生物在体细胞膜修复过程的动态分子调控机制。

Dr. Meng completed his PhD degree in the School of Medicine, Zhejiang University. His main areas of research interests are cell membrane repair and tissue regeneration. His postdoctor projects will devote to exploring the dynamic molecular regulation mechanisms in the process of membrane repair in vivo by using *Caenorhabditis elegans*.



孟曦男

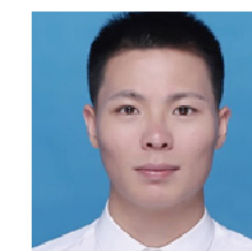
Xinan Meng

导师：徐素宏教授

Supervisor: Prof. Suhong Xu  
博士后 Post-doc

博士毕业于南京理工大学，研究领域为磁性材料、仿生聚合物材料和水凝胶材料的设计等。博士后课题将围绕递送mRNA的载体开展，研究主要聚焦在脂质体纳米颗粒递送系统的构建。

Dr. Pan obtained his Ph.D. degree at Nanjing University of Science and Technology. His research mainly focused on the design of magnetic materials, biomimetic polymer materials and hydrogels. His postdoctoral project is the study about the carriers of mRNA delivery, and the construction of Lipid Nanoparticles delivery systems.



潘夕郝

Xihao Pan

导师：欧阳宏伟教授

Supervisor: Prof. Hongwei Ouyang  
博士后 Post-doc

# 党建 CPC Events

## ZJE党支部

截止至2021年12月, ZJE教职工党支部有党员21人(其中正式党员20人), 入党积极分子3人。2021年全年开展支部大会8次, 支委会12次; 共参加/组织党课学习13次, 其中书记讲党课3次; 全年开展党日活动12次。党支部积极响应校区关于开展浙江大学新发展阶段使命愿景大讨论工作, 开展依托“事业之友”党员与非党员教职工结对全覆盖交流讨论和使命愿景大讨论座谈会, 外籍师资参与其中, 为学院做好中外合作办学添砖加瓦。ZJE支部重视师德师风建设, 通过师资和行政两支队伍并行共建。支部持续进行以“中国精神”为主题的微党课以及优秀师生榜样故事分享, 让每位党员参与其中, 激发党员干部创业的热情和动力。通过定期会议, 规范教师行为准则, 积极引导教职工树立正确价值观。支部荣获海宁国际校区先进党支部称号, 支部两位党员获海宁国际校区优秀共产党员称号。支部入选浙江大学第二批“全校党建工作样板支部”培育创建单位。



## ZJE本科生党支部

ZJE本科生党员开展集中学习19次，其中参与校区级集中学习8次，党支部开展集中学习11次。支部开展的集中学习主题有：学习习近平总书记系列重要讲话精神、学习优秀共产党员先进事迹、党史学习教育、学习党建工作实务规范等。支部25名党员同时任校区学生组织、社团和班团骨干，参与校区学生组织管理、班团评奖评优工作等。支部全部党员通过与团支部结对的方式，参与本科生推优工作。支部1名党员“2+2”模式推免，将担任辅导员工作2年，参与思想政治教育与学生事务管理工作。支部本年度新发展党员17人，转正预备党员6人，接收入党积极分子42人。目前共有入党申请人91人、入党积极分子81人。

## ZJE研究生党支部

本年度ZJE研究生党支部共召开支委会15次，支部大会8次，专题组织生活会1次，党小组会5次，党日活动12次，开展集中学习14次，支部书记讲党课3次。支部覆盖学生群体中党员比例为39%，现有发展对象2人，入党积极分子9人，入党申请人3人，本年度新发展党员3人。部所依托ZJE2020级硕士生班获得2020-2021学年“浙江大学先进班级”荣誉称号，学生入党积极分子、申请人获得国家级荣誉（国家奖学金）2项、校级三好研究生等荣誉19项（奖项共计22项）、校区级优秀共产党员荣誉1项。支部联合教工支部开展主题党日，助力构建和谐导学关系，通过座谈会的形式与校区各部门面对面，为构建和谐校园建言献策。依托“学业之友”结对计划实现党员与非党员（含留学生）的全覆盖，深入开展党史学习教育和新发展阶段使命愿景大讨论，聚焦研究生成长发展，不断提高站位服务“国之大事”。

