

# 生物医学工程

## 一、培养目标

本专业培养具有坚实的自然科学知识、扎实的工程技术基础和一定的人文社会科学知识的复合型人才，要求学生深入掌握生命科学和工程科学的基础理论和专业知识，系统掌握生物医学工程专业涉及的基本方法与实验技能，解决生物医学工程领域中的科学研究、产品开发、仪器研制与维护等问题。可从事本专业及生命科学相关其他专业的科研、开发、管理工作。

## 二、基本规格要求

本专业学生要求掌握以下八项核心能力：

1. 生物医学工程的基础理论与方法；
2. 生物医学工程的基本实验原理与研究方法；
3. 综合运用生物医学工程知识的实践能力；
4. 独立思考、分析和解决问题能力；
5. 专业论文研读及表达能力；
6. 健康全面的人文素养；
7. 国际视野与国际交流能力；
8. 创新研究与设计能力。

## 三、培养特色

本专业针对国家新医药发展的重大需求，研究和解决与人类健康相关的实际问题，突出生物医学工程、生物工程技术方面的培养，使学生具备生命科学、生物技术、生物信息科学和基础医学等方面的理论基础和实验技能。在培养方式上，构建以学生为中心的新型教学模式，坚持国际化发展，培养学生独立获取知识、终身学习的能力和综合素质。生物医学工程专业围绕培养创新、国际性、复合型、实用型人才这个主线，突出边缘性、交叉性学科的综合特色，以“厚基础，宽口径，强实践”为突出特点，强化能力与素质的培养，为组织工程、生物医学材料、纳米生物技术、医学影像、医学/动植物检疫/检测、细胞工程等相关领域培育教学、科研、开发与管理等工作的高素质的人才。

## 四、学制、毕业基本要求及授予学位

1. 本科基本学制 4 年，弹性学习年限 3—6 年，按照学分制度管理。

2. 生物医学工程专业学生毕业最低学分数为 165 学分，其中各类别课程及环节要求学分数如下表：

课程类别	通识必修	学门核心	学类核心	专业核心	专业选修	通识选修	集中实践	合计
学分数	29	21	33	23	21	8	30	165

3. 学生修满培养方案规定的必修课、选修课及有关环节，达到规定的最低毕业学分数，并修完规定必修但不记学分的所有课程和环节，德、智、体合格，即可毕业。满足学位授予相关文件要求的，授予工学学士学位。

## 五、课程设置及学分分布

### (一) 通识教育课程 [必修 29 + (6) 学分 + 选修 8 学分]

通识教育课程包括必修和选修两部分。通识选修课程按《湖南大学通识选修（文化素质教育）课程方案》实施，通识必修课程如下：

编码	课程名称	学分	备注
GE01101	毛泽东思想和中国特色社会主义理论体系概论	3+ (3)	
GE01039	思想道德修养与法律基础	1.5+ (1.5)	
GE01100	形势与政策	0.5+ (1.5)	
GE01102	中国近现代史纲要	2	
GE01103	马克思主义基本原理 (上)	2	
GE01104	马克思主义基本原理 (下)	2	
GE01012 (-15)	大学英语	8	
GE01088	计算机基本能力测试	0.5	
GE01095	计算机导论与程序设计	2.5	
GE01107 (-13)	心理素质与生涯发展	1	
GE01089 (-92)	体育	4	
GE01001	中国语文	2	

### (二) 学门核心 (21 学分)

编码	课程名称	学分	备注
GE03025— (26)	高等数学 A	10	
GE03003	线性代数 A	3	
GE03004	概率论与数理统计 A	3	
GE03009	普通物理 B	4	
GE03007	普通物理实验 A (1)	1	

### (三) 学类核心 (33 学分)

编码	课程名称	学分	备注
BS04020	专业导论课程	1	
BS04031	有机化学 B	3	
BS04005	有机化学实验 B	1	
GE02006	普通化学	2	
BS04033	分析化学	3	
BS04004	基础分析化学实验 A	1	
BS04025	普通生物学 (1)	3	
BS04026	普通生物学 (2)	3	
BS04021	生物化学 (1、2)	6	
BS04022			
BS04009	生物化学实验 (1、2)	2	
BS04011			
BS04029	人体解剖生理学	3	
BS04030	人体解剖生理学实验	1	
BS04027	细胞生物学	3	
BS04028	细胞生物学实验	1	

**(四) 专业核心 (23 学分)**

编码	课程名称	学分	备注
BS05029	生物医学材料	3	
BS05030	组织工程学	3	
BS05022	分子生物学	3	
BS05004	分子生物学实验	1	
BS05028	生物信息学	3	
BS05031	生物医学影像与图像处理	3	
BS05032	生物医学影像与图像处理实验	1	
BS05026	基因工程 * *	3	
BS05033	遗传学 A * *	3	

**(五) 专业选修 (21 学分)**

编码	课程名称	学分	备注
BS06012	生化仪器原理与方法	2	
BS06061	纳米生物学进展	1	(研讨课)
BS06023	现代免疫学	2	
BS06004	发育生物学	2	
BS06010	生化分离工程	2	
BS06043	细胞信号转导	2	(研讨课)
BS06024	药理学	2	
BS06042	生物化学进展 * *	1	(研讨课)
BS06054	病理学	2	
BS06006	分子遗传学进展 *	1	(研讨课)
BS06007	化工原理	2	
BS06031	微生物学	2	
BS06055	微生物学实验	1	
BS06056	生物力学与生物流变学	2	
BS06057	生物医学电子学	2	
BS06058	生物医学光学	2	
BS06028	生物医学工程前沿	2	
BS06029	文献检索和专业英语	2	
BS06059	生物医学传感器	2	
BS06060	生物与医学伦理	1	(研讨课)
BS06052	科研实践	2	可抵一门 2 学分的选修课
BS06053	大学生创新性实验计划项目 (sit)	2	可抵一门 2 学分的选修课

注：①有 \* \* 标注的为全英文课，有 \* 标注的为双语课。

②专业选修课中的 10 学分，可在全校范围内跨专业选修。

**(六) 集中实践 (30 学分)**

编码	课程名称	学分	备注
GE04010	军事训练	0	
GE09030	中文写作实训	1	
GE09027	英文应用写作实训	2	
GE09024	工程认知实习 A	1	
GE09037	电子电工实习 B	1	
GE09002	仿真平台与工具应用实践	2	
BS10008	专业认知实习	2	
BS10010	组织工程课程设计与实验	2	
BS10011	生物医学综合实验	3	

续表

编码	课程名称	学分	备注
BS10012	导师课程	2	形式上包括授课以及进入导师研究室进行科研实践,并与导师制有机结合,导师负责对应本科生的入学辅导、在校期间的专业认识教育、选课指导、专业发展方向介绍、有关实践环节指导等。
BS10003	毕业实习	4	
BS10013	毕业论文	10	

## 六、课程责任教师一览表

序号	姓名	职称	学历学位	专业特长	课程 (专业核心、专业选修、通识选修)	导师课程
1	覃宏涛	教授	博士	遗传学及神经生物学	遗传学、遗传学实验、分子遗传学进展、生物医学工程前沿	神经生物学
2	谭拥军	教授	博士	分子生物学、细胞组织工程	基因工程、生物医学工程前沿	基因表达调控
3	聂和民	教授	博士	组织工程	组织工程学、组织工程课程设计与实验	生物材料与组织工程
4	杨寅柯	教授	博士	分子医学	人体解剖生理学、人体解剖生理学实验	人类疾病动物模型与新药研发
5	何晓晓	教授	博士	生物医学工程、生物分析化学	纳米生物学进展、人体解剖生理学、人体解剖生理学实验	纳米生物技术与医学
6	朱海珍	教授	博士	病毒学、药理学	药理学、生物医学工程前沿	分子医学
7	叶茂	教授	博士	分子医学	细胞生物学、细胞生物学实验	癌变的分子机制
8	郭新红	教授	博士	植物分子生物学	遗传学、分子遗传学进展	细胞信号转导
9	谭蔚泓	教授	博士	生物医学工程、分子医学	生物医学工程前沿	核酸分子识别与探针
10	张健	教授	博士	分子生物学、转基因动物	生物医学工程前沿	转基因技术
11	王柯敏	教授	博士	生物分析化学、生物医学工程	生物医学工程前沿	纳米生物学与分子工程
12	李丹	教授	博士	分子与细胞生物学	分子生物学、分子生物学实验、现代免疫学	遗传与发育分子生物学
13	刘选明	教授	博士	植物学、细胞生物学	生物医学工程前沿	功能基因组与发育调控
14	朱咏华	教授	博士	生物化学与分子生物学、应用微生物	生物医学工程前沿	资源与环境微生物
15	赵小英	教授	博士	生物化学与分子生物学	生物化学Ⅱ、生物化学Ⅱ实验	植物分子生物学
16	孟祥贤	副教授	博士	生物分析化学	微生物学、微生物学实验、专业认知实习	分子工程学
17	刘斌	副教授	博士	生化与分子生物学	分子生物学、分子生物学实验	现代分子诊断技术

续表

序号	姓名	职称	学历学位	专业特长	课程 (专业核心、专业选修、通识选修)	导师课程
18	谭钟扬	副教授	博士	生物信息理论与技术研究	生物信息学	比较基因组学
19	于峰	副教授	博士	植物分子生物学	分子生物学、分子生物学实验、细胞信号转导	细胞信号转导
20	王洪辉	副教授	博士	分子细胞药理学	基因工程	细胞移动信号机制的研究
21	朱洪	讲师	博士	组织工程、分子免疫学	微生物学、现代医学导论、发育生物学	肿瘤的细胞和分子生物学
22	黄明敏	讲师	博士	分子生物学、细胞生物学	细胞生物学、细胞生物学实验、人体解剖生理学实验	营养与健康
23	余雳	讲师	博士	组织与细胞工程、生物信息理论与技术研究	生物信息学、生物信息学实验、生物医学光学	生物医学光子学
24	谭志凯	助理教授	博士	生物医学工程	生物医学影像与图像处理、生物医学影像与图像处理实验	生物快速制造
25	刘巧玲	助理教授	博士	生物医学工程、纳米生物学	生物医学材料、文献检索和专业英语	DNA 损伤与修复
26	唐冬英	讲师	硕士	植物分子生物学	普通生物学 II	水稻叶色黄化的分子机制
27	童春义	讲师	博士	生化分析、分析化学	生物化学 II 实验、生化仪器原理与方法	生物检测技术
28	李新梅	讲师	硕士	生物化学与分子生物学、植物培养	生物化学 I、生物化学 I 实验	
29	胡小晓	助理教授	博士	癌症医学及药物研究	基因工程、普通生物学专业认知实习	
30	Lukas	讲师	博士	生物化学	寄生虫学、生物化学进展	
31	赵大鹏	讲师	博士	组织工程	生物医学综合实验、生物医学材料、组织工程课程设计与实验	生物材料表面修饰与检测
32	王波	讲师	博士	生物光学	生物医学电子学、生物医学光学	光声成像及其生物医学应用研究

## 七、专业责任教授

序号	姓名	职称	学历学位	专业特长	职责与承担授课课程
1	覃宏涛	教授	博士	神经生物学、遗传工程	全面负责该专业的建设 遗传学、遗传学实验、分子遗传学进展

# Biomedical Engineering

## I . Objectives

This program will foster versatile talents that have a sound knowledge of natural science, solid engineering technology base and some humanities and social science knowledge. Students are required to deeply master the basic theory and professional knowledge of life science and engineering science, to systemically master the basic methods and experimental skills of Biomedical Engineering, to solve the Biomedical Engineering problems relevant to scientific research, product development, instrument design and maintenance. Graduates will be prepared for diverse career paths related to the scientific research, product development and management in the field of Biomedical Engineering and other life science areas.

## II . Basic Specifications

Upon graduation, students are required to demonstrate:

1. Knowledge of basic theories and methods in the field of biomedical engineering;
2. Knowledge of basic experimental principles and research methods in the field of biomedical engineering;
3. A capacity for comprehensive application of biomedical engineering knowledge;
4. A capacity for independent thinking, analyzing and solving problems;
5. A skill of reading and writing research papers;
6. Healthy and comprehensive humanistic attainment;
7. An international vision and communication skill;
8. A capacity for innovative research and design.

## III . Characteristics

This program addresses the major demand for the national new medicine development, studies and solves practical issues regarding human health, emphasizes in biomedical engineering, biological engineering and technologies so that students are equipped with theoretical foundation and experimental skills in the areas of life science, biotechnology, bioinformatic science and basic medicine. As to educational approaches, the program constructs student-centered teaching models, adheres to internationalization development, fosters the students' capacity for independently acquiring knowledge and lifelong learning, promotes the students' comprehensive quality.

Surrounding the main theme of cultivating innovative, international, comprehensive and practical talents, biomedical engineering program features marginality and interdiscipline and is especially characterized by "thick foundation, broad caliber and strong practice". By strengthening the training of ability and quality, the program nurtures high quality talents for jobs such as teaching, scientific research, development and management in the fields of tissue engineering, biomedical materials, nano-biotechnology, medical imaging, medical/animal and plant quarantine/detection, cellular engineering or other related areas.

## IV. Length of Schooling, Basic Requirements for Graduation and Degree Conferment

1. The length of schooling for undergraduate studies is four years, with a flexible length lasting from 3 to 6 years, based on the regulation of credit system.

2. Students of Biomedical Engineering major are expected to complete a minimum of 165 credits upon graduation, and the required credits for different courses are illustrated in the following table:

Course Category	Required General Education Courses	Introductory Major Courses	Major Survey Courses	Required Core Courses	Restricted Electives	General Education Electives	Intensive Practice	Total
Credits	29	21	33	23	21	8	30	165

3. On successful completion of the prescribed courses and intensive practice, students, who are qualified enough to meet all the requirements of this program, will thus be awarded the Bachelor's Degree of Engineering.

## V. Curriculum and Credits

1. General Education Courses [required 29+(6) + elective 8 credits]

The general education courses consist of required courses and elective courses. General education electives are designed according to the *Curriculum Design of General Education Electives of Hunan University*. Required general education courses are illustrated in the following table.

Code	Course Title	Credit(s)	Remarks
GE01101	Introduction to Maoism and Theoretical System of Socialism with Chinese Characteristics	3+(3)	
GE01039	Moral Cultivation and Law Basics	1.5+(1.5)	
GE01100	Current Situation and Policies	0.5+(1.5)	
GE01102	Outline of Modern Chinese History	2	
GE01103	Fundamentals of Marxism I	2	
GE01104	Fundamentals of Marxism II	2	
GE01012(-15)	College English	8	
GE01088	Computer Proficiency Test	0.5	
GE01095	Introduction to Computer Science and Programming	2.5	
GE01107(-13)	Psychological Health & Career Planning	1	
GE01089(-92)	Physical Education	4	
GE01001	Chinese Language Arts	2	

2. Introductory Major Courses (21 credits)

Code	Course Title	Credit(s)	Remarks
GE03025-(26)	Advanced Mathematics A	10	
GE03003	Linear Algebra A	3	
GE03004	Probability Theory and Mathematical Statistics A	3	
GE03009	General Physics B	4	
GE03007	General Physics Experiment A (I)	1	

3. Major Survey Courses (33 credits)

Code	Course Title	Credit(s)	Remarks
BS04020	Introduction to Major	1	
BS04031	Organic Chemistry B	3	
BS04005	Organic Chemistry Experiment B	1	

Cont

Code	Course Title	Credit(s)	Remarks
GE 02006	General Chemistry	2	
BS04033	Analytical Chemistry	3	
BS04004	Basic Analytical Chemistry Experiment A	1	
BS04025	General Biology I	3	
BS04026	General Biology II	3	
BS04021 BS04022	Biochemistry I ; II	6	
BS04009 BS04011	Biochemistry Experiment I ; II	2	
BS04029	Human Anatomy and Physiology	3	
BS04030	Human Anatomy and Physiology Experiment	1	
BS04027	Cell Biology	3	
BS04028	Cell Biology Experiment	1	

## 4. Required Core Courses (23 credits)

Code	Course Title	Credit(s)	Remarks
BS05029	Biomedical Materials	3	
BS05030	Tissue Engineering	3	
BS05022	Molecular Biology	3	
BS05004	Molecular Biology Experiment	1	
BS05028	Bioinformatics	3	
BS05031	Biomedical Imaging and Image Processing	3	
BS05032	Biomedical Imaging and Image Processing Experiment	1	
BS05026	Gene Engineering * *	3	
BS05033	Genetics A * *	3	

## 5. Restricted Electives Courses ( 21 credits)

Code	Course Title	Credit(s)	Remarks
BS06012	Principles and Methods of Biochemical Instruments	2	
BS06061	Nanobiology Progress	1	( Group Discussion Course )
BS06023	Modern Immunology	2	
BS06004	Development Biology	2	
BS06010	Biochemical Separation Engineering	2	
BS06043	Cell Signal Transduction	2	( Group Discussion Course )
BS06024	Pharmacology	2	
BS06042	Advanced Biochemistry * *	1	( Group Discussion Course )
BS06054	Pathology	2	
BS06006	Advanced Topics in Molecular Genetics *	1	( Group Discussion Course )
BS06007	Principles of Chemical Engineering	2	
BS06031	Microbiology	2	
BS06055	Microbiology Experiment	1	
BS06056	Biological Mechanics and Rheology	2	
BS06057	Biomedical Electronics	2	
BS06058	Biomedical Optics	2	
BS06028	Frontiers of Biomedical Engineering	2	



Cont

Code	Course Title	Credit(s)	Remarks
BS06029	Literature Retrieval and Professional English	2	
BS06059	Biomedical Sensor	2	
BS06060	Biological and Medical Ethics	1	( Group Discussion Course )
BS06052	Scientific Research Practice	2	Can substitute for a 2 credits elective course
BS06053	Students Innovation Training Program (SIT)	2	Can substitute for a 2 credits elective course

Note: 1) Courses marked with \* \* are taught in English, courses marked with \* are taught in bilingual (Chinese and English).

2) Students may take cross-major electives within the 10 elective credits.

### 6. Intensive Practice (30 credits)

Code	Course Title	Credit(s)	Remarks
GE04010	Military Training	0	
GE09030	Chinese Practical Writing and Training	1	
GE09027	English Practical Writing Training	2	
GE09024	Engineering Cognitive Practice A	1	
GE09037	Electrical and Electronic Engineering Practice B	1	
GE09002	Simulation Platforms and Tools Practice	2	
BS10008	Professional Cognitive Practice	2	
BS10010	Tissue Engineering Course Design and Experiment	2	
BS10011	Comprehensive Biomedicine Laboratory	3	
BS10012	Mentor Course	2	The format of this course includes classroom lectures and scientific research practices in the mentor's laboratory. This course is a component of the undergraduate mentor system. The responsibilities of the mentor include orientation, professional knowledge education, curricula consulting, professional development guidance, practical training guidance.
BS10003	Graduate Internship	4	
BS10013	Graduate Thesis	10	

## VI. Course Instructor List

No.	Name	Academic Title	Educational Background	Research Areas	Courses	Mentor Course
1	Qin Hongtao	Professor	Ph. D	Genetics, Nenrobiology	Genetics, Genetics Experiment, Advanced Topics in Molecular Genetics, Frontiers of Biomedical Engineering	Neurobiology
2	Tan Yongjun	Professor	Ph. D	Molecular Biology, Cellular Tissue Engineering	Gene Engineering, Frontiers of Biomedical Engineering	Gene Expression Regulation
3	Nie Hemin	Professor	Ph. D	Tissue Engineering	Tissue Engineering, Tissue Engineering Course Design and Experiments	Biomaterials and Tissue Engineering
4	Yang Yinke	Professor	Ph. D	Molecular Medicine	Human Anatomy and Physiology, Human Anatomy and Physiology Experiment	Animal Models of Human Diseases and New Drug Research and Development
5	He Xiaoxiao	Professor	Ph. D	Biomedical Engineering, Bioanalytical Chemistry	Nanobiology Progress, Human Anatomy and Physiology, Human Anatomy and Physiology Experiment	Nanobiotechnology and Medicine
6	Zhu Haizhen	Professor	Ph. D	Virology, Pharmacology	Pharmacology, Frontiers of Biomedical Engineering	Molecular Medicine
7	Ye Mao	Professor	Ph. D	Molecular Medicine	Cell Biology, Cell Biology Experiment	Molecular Mechanisms of Carcinogenesis
8	Guo Xinhong	Professor	Ph. D	Plant Molecular Biology	Genetics, Genetics Experiment	Cellular Signaling Transduction
9	Tan Weihong	Professor	Ph. D	Biomedical Engineering, Molecular Medicine	Frontiers of Biomedical Engineering	The Molecular Recognition and Molecular Probe
10	Zhang Jian	Professor	Ph. D	Molecular Biology, Transgenic Animals	Frontiers of Biomedical Engineering	Transgene Technology
11	Wang Kemin	Professor	Ph. D	Bioanalytical Chemistry, Biomedical Engineering	Frontiers of Biomedical Engineering	Nanobiology and Molecular Engineering
12	Li Dan	Professor	Ph. D	Molecular and Cellular Biology	Molecular Biology, Molecular Biology Experiment, Modern Immunology	Genetics and Development Molecular Biology
13	Liu Xuanming	Professor	Ph. D	Botany, Cell Biology	Frontiers of Biomedical Engineering	Functional Genome and Development Regulation

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No.	Name	Academic Title	Educational Background	Research Areas	Courses	Mentor Course
14	Zhu Yonghua	Professor	Ph. D	Biochemistry and Molecular Biology, Applied Microorganism	Frontiers of Biomedical Engineering	Resources and Environmental Microorganism
15	Zhao Xiaoying	Professor	Ph. D	Biochemistry, Molecular Biology	Biochemistry II, Biochemistry II Experiment	Plant Molecular Biology
16	Meng Xiangxian	Associate Professor	Ph. D	Bioanalytical Chemistry	Microbiology, Microbiology Experiment, Professional Recognition Practice	Molecular Engineering
17	Liu Bin	Associate Professor	Ph. D	Biochemical and Molecular Biology	Molecular Biology, Molecular Biology Experiment	Modern Molecular Diagnostic Technology
18	Tan Zhongyang	Associate Professor	Ph. D	Bioinformatic Theory and Technology Research	Bioinformatics	Comparative Genomics
19	Yu Feng	Associate Professor	Ph. D	Plant Molecular Biology	Molecular Biology, Molecular Biology Lab, Cellular Signaling Transduction	Cellular Signaling Transduction
20	Wang Honghui	Associate Professor	Ph. D	Molecular Cellular Pharmacology	Gene Engineering	Cell Migration Signaling
21	Zhu Hong	Lecturer	Ph. D	Tissue Engineering, Molecular Immunology	Microbiology, Introduction to Modern Medicine, Developmental Biology	Cellular and Molecular Biology of Cancer
22	Huang Mingmin	Lecturer	Ph. D	Molecular Biology, Cell Biology	Cell Biology, Cell Biology Lab, Human Anatomy and Physiology Experiment	Nutrition and Health
23	Yu Li	Lecturer	Ph. D	Tissue and Cellular Engineering, Bioinformatic Theory and Technology Research	Bioinformatics, Bioinformatics Experiment, Biomedical Optics	Biomedical Photonics
24	Tan Zhikai	Assistant Professor	Ph. D	Biomedical Engineering	Biomedical Imaging and Image Processing, Biomedical Imaging and Image Processing Experiment	Rapid Bio-manufacturing
25	Liu Qiaoling	Assistant Professor	Ph. D	Biomedical Engineering, Nano Biology	Biomedical Materials, Literature Retrieval and Professional English	DNA Damage and Repair
26	Tang Dongying	Lecturer	M. A.	Plant Molecular Biology	General Biology II	Rice Leaf Etiolation Molecular Mechanisms

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No.	Name	Academic Title	Educational Background	Research Areas	Courses	Mentor Course
27	Tong Chunyi	Lecturer	Ph. D	Biochemical Analysis, Analytic Chemistry	Biochemistry II Experiment, The Principles and Methods of Biochemical Instruments	Biological Detection Technology
28	Li Xinmei	Lecturer	M. A.	Biochemistry and Molecular Biology, Plant Culture	Biochemistry I, Biochemistry I Experiment	
29	Hu Xiaoxiao	Assistant Professor	Ph. D	Cancer Medical Science and Drug Research	Gene Engineering, General Biology I, Professional Recognition Practice	
30	Lukas	Lecturer	Ph. D	Biochemistry	Parasitology, Advanced Biochemistry	
31	Zhao Dapeng	Lecturer	Ph. D	Tissue Engineering	Comprehensive Biomedicine Laboratory, Biomedical Materials, Tissue Engineering Course Design and Experiments	Biomaterials Surface Modification and Detection
32	Wang Bo	Lecturer	Ph. D	Biological Optics	Biomedical Electronics, Biomedical Optics	Photoacoustic Imaging and Application in Biomedicine

## VII. Course Scheduler

No.	Name	Academic Title	Educational Background	Research Areas	Courses
1	Qin Hongtao	Professor	Ph. D	Neurobiology, Genetic Engineering	Genetics, Experiment of Genetics, Advanced Topics in Molecular Genetics

(翻译人:覃宏涛)