

课程大纲 COURSE SYLLABUS

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| 1. | 课程代码/名称 Course Code/Title | 34D0047/疫苗学 Vaccines |
| 2. | 课程性质 Compulsory/Elective | 专业选修课 Major Elective Courses |
| 3. | 开课单位 Offering Dept. | 南方科技大学第二附属医院 The Second Affiliated Hospital of Southern University of Science and Technology |
| 4. | 课程学分/学时 Course Credit/Hours | 1 学分/16 课时 1 credit /16 class hours |
| 5. | 授课语言 Teaching Language | 中文 Chinese |
| 6. | 授课教师 Instructor(s) | 张国良、肖国辉、毕静、郭庆龙 Zhang Guoliang, Xiao Guohui Bi Jing, Guo Qinglong |
| 7. | 开课学期 Semester | 秋季 Fall |
| 8. | 是否面向本科生开放 Open to undergraduates or not | 否 No |
| 9. | 先修要求 Pre-requisites | (如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference.) 无 None |
| 10. | 教学目标 Course Objectives | (如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference.) 1. 知识和技能: 掌握疫苗的发展史、分类和免疫原理。 2. 过程与方法: 授课老师能通过讲授和课堂互动的方式, 使学生了解并掌握多种类型的疫苗研发及免疫过程, 并增强学生对交叉学科知识内化能力。 1. Knowledge and skills: knowledge of the history, classification and principles of immunization of vaccines 2. Process and Method: Through teaching and classroom interaction, teachers can help students understand and master various types of vaccine development and immunization processes, and enhance students' ability to internalize interdisciplinary knowledge. |
| 11. | 教学方法 Teaching Methods | (如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference.) 讲授 Lectures |
| 12. | 教学内容 Course Contents | (如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the |

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| | difference.) |
| Section 1 | 疫苗概论/Introduction to Vaccines |
| Section 2 | 疫苗的分类与特征/Classification and characteristics of vaccines |
| Section 3 | 灭活疫苗的进展/Advances in inactivated vaccines |
| Section 4 | 减毒活疫苗/Advances in inactivated vaccines |
| Section 5 | 亚单位疫苗/subunit vaccine |
| Section 6 | 核酸疫苗 1--DNA 疫苗/Nucleic acid vaccine 1- DNA vaccine |
| Section 7 | 核酸疫苗 2--mRNA 疫苗/Nucleic acid vaccine 2--mRNA vaccine |
| Section 8 | 病毒载体疫苗/Viral vector vaccine |
| Section 9 | 天花与牛痘疫苗/Smallpox and vaccinia vaccines |
| Section 10 | 乙型肝炎疫苗/hepatitis b vaccine |
| Section 11 | 百日咳疫苗/pertussis vaccine |
| Section 12 | 狂犬病疫苗/rabies vaccine |
| Section 13 | HIV 疫苗研究进展/Progress in HIV vaccine research |
| Section 14 | 流感/新冠疫苗/Influenza/COVID-19 vaccines |
| Section 15 | 结核疫苗进展/Progress in tuberculosis vaccine |
| Section 16 | 联合疫苗/combined vaccine |
| 13. 课程考核 Course Assessment | |
| | <p>(① 考核形式 Form of examination; ②. 分数构成 grading policy; ③ 如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference.)</p> <p>考核形式: 考查, 具体考勤+写一篇与疫苗学相关的综述。 分数构成: 满分 100, 考勤 40%, 论文 60%。 examination form: Write a review related to vaccinology. Grading policy: A perfect score of 100, 40% attendance, 60% essay.</p> |
| 14. 教材及其它参考资料 Textbook and Supplementary Readings | |
| | 必填 |