附件1

第七届大学生蚕桑生物技术创新大赛入围决赛作品

**1．本科生组**

（1） MYB Transcription Factor MbMYB306 Regulates the Biosynthesis of Resveratrol and Flavonoids in Mulberry

（2）柞蚕蛾触角中嗅觉相关基因的鉴定

（3）桑树青枯病病原菌生防细菌的筛选鉴定及其促生防病效果研究

（4）家蚕 BmZKP 基因拷贝数变异及其对茧丝产量提升的作用

（5）利用家蚕鉴定阿尔兹海默症相关同源基因PAAFI及其基因功能研究

（6）基于家蚕杆状病毒表达微塑料降解酶的研究

（7）棘孢木霉TR41对桑树炭疽病菌的抑菌作用及分子机制研究

（8）比较蛋白质组学研究氯虫苯甲酰胺毒性对家蚕的影响

（9）Construction and Immunogenicity Analysis ofa Recom-

binantBaculovirus Targeting the N Protein ofSARS-CoV-2

（10）Soluble Guanylate Cyclase αl Gene Influences Egg-Laying Amount andHatching Rate in Bombyx mori

（11）Exploring the effects of perffuorooctanoic acid (PFOA) and tetrabromobisphenol A (TBBP-A) on silkworm from the insights of metabolome

（12）Ingestion of Polystyrene Microplastics Disrupts Mid-

gutIEpithelial Barrier Intcgrity,Promoting susccptibility to BmNPV hfection in Bombyx mori

（13）吡丙醚通过海藻糖影响家蚕几丁质合成

**2．硕士生组**

（1）BmTER94互作蛋白筛选及其与BmNPV关系研究

（2）苯丙氨酸添食对人工饲料育家蚕生长发育的影响及其机制

（3）基于重测序技术的家蚕发育相关基因挖掘及BCPI基因功能研究

（4）一种同时检测家蚕核型多角体和质型多角体的核酸适配体试纸条及其制备方法

（5）家蚕丝氨酸蛋白酶BmCLSP抗BmNPV功能研究

（6）BmADARa通过BmSuc1调控家蚕丝腺生长和发育

（7）Molecular Mechanism of Mulberry MATE Family Protein MulDTX19 in Regulating Plant Growth and Aluminum Stress Resistance

（8）The MnBPC6-MnPLATZ5 module regulates the salt stress tolerance of mulberry

（9）家蚕核型多角体病毒编码的circRNA-390的鉴定及功能研究

（10）益生菌枯草芽孢杆菌通过调节肠道菌群和氨基酸代谢提高家蚕生长性能和产丝量

（11）依赖于BmADARa编辑功能促进miR-3315成熟靶向BmSuc1

（12）石蚕丝腺的结构与水中成纤机制研究

（13）蚕韵智创

（14）石蚕寄生簇虫的形态与分子适应性：基于广西淡水种群的进化研究

（15）不同干燥方法对桑叶营养价值、生物活性化合物和提取物体外功能的影响

（16）桑叶1-DNJ 通过PERK-ATF4/MFN2 信号通路调控氧化应激状态下猪卵巢颗粒细胞凋亡的机制研究

（17）配合饲料育通过影响家蚕卵巢发育和营养积累降低产卵数和蚕卵质量

（18）辅助piRNA途径因子Qin缺失诱导的家蚕性别偏向性育性退化

（19）Mulberry (Morus alba L.) planting increased the abundance of soil carbon cycling functional genes by improving soil properties, and further enhanced the stability of soil carbon pool

（20）桑叶育蚕粪替换桑叶粉对饲料育家蚕生产性能的影响

（21）家蚕后部丝腺表达丝胶蛋白Ser3的转基因突变系统构建及其表型分析

（22）桑蟥聚瘤姬蜂卵黄原蛋白基因的坚定及功能研究

（23）蒙氏肠球菌EmB-JS01对家蚕的致病性研究

（24）Orco和for基因在桑蟥聚瘤姬蜂搜寻寄主中的功能分析

（25）微量氟酰脲暴露对家蚕吐丝结茧及丝腺基因表达的影响

（26）玉米秸秆与桑叶体外发酵的协同效应及对羊生长性能和抗氧化能力的影响

（27）BmWARS通过PI3K-Akt通路抵御BmNPV的侵染

（28）白藜芦醇通过恢复线粒体功能减轻NEFA诱导的牛乳腺上皮细胞氧化损伤

（29）不同平茬高度对桑树萌蘖过程的植物激素代谢的影响

（30）基因编辑家蚕合成重组人 III 型胶原蛋白的研究

（31）一种具备固有抗菌抗氧化活性的丝胶蛋白水凝胶敷料的制备及其用于创面修复的研究

（32）家蚕黑蛾新突变基因的定位克隆

（33）老挝家蚕的细菌性败血病病原菌分离与鉴定

（34）家蚕微孢子虫海藻糖合成酶2 (NbTPS2) 的分子表征研究

（35）PTB-Associated Splicing Factor (PSF) Repress Nosema bombycis Replication by Promoting Wnt-Signaling Pathway

（36）家蚕BmEF1G基因的鉴定及其对BmNPV增殖的影响

（37）BmUGTx1基因的鉴定及其对家蚕感染BmNPV的影响

（38）蛋白质添食对家蚕营养利用调控机制的研究及经济性状的影响

（39）A novel detoxification strategy of Bombyx mori (Lepidoptera:Bombycidae) to dimethoate based on gut microbiota research

（40）Evaluation of the toxic effects and midgut biological changes induced by low concentrations of cyantraniliprole in Bombyx mori

（41）Functional characterization of a novel protein-coding circular RNA, circRNA\_1193, from the mAAP gene in silkworm and its role in antiviral defense against BmCPV

（42）Replication and transcription of eccDNAfib-L,an extrachromosomalc ircular DNA in the silkgland of silkworm,Bombyxmori

（43）Effects of Two Host Plant Species on the Growth, Development, and Nutrient 2 Accumulation in Antheraea pernyi

（44）基于钙离子稳态研究高温对家蚕不同器官自噬和凋亡的影响

（45）Optimization of ultrasonic-assisted extraction of total carotenoids from larvae of Antheraea pernyi (Lepidoptera: Saturniidae) using response surface methodology

（46）Mitochondrial genome and phylogeny of American silkmoth Antheraea polyphemus and its Asian relatives (Lepidoptera: Saturniidae)

（47）紫外线诱导家蚕 BmN 细胞凋亡中钙稳态调控机制的研究

（48）Dual regulatory mechanisms of virus-derived circular DNA vcDNA-S7 on BmCPV infection: depending on RNase H1 and encoding cryptic protein vcS7-P195

（49）SNRNP200 is involved in the formation of the Bombyx mori-BmCPV chimeric RNA HDAC11-S4 RNA 4

（50）BmCPV 编码的 circRNA-circ\_0500 通过 bom-miR-

274-5p/CYP4C1 轴诱导铁死亡来抑制病毒增殖

（51）冰模板法制备蚕丝短纤增强壳聚糖仿生取向气凝胶

（52）基于氮气热解调控的丝胶蛋白碳基材料构筑及其在污染物吸附与油料精炼中的应用机理

（53）中国8省的桑疫病样本病原组成分析与鉴定

（54）Bombyx mori nucleopolyhedrovirus LEF-2 disrupts the cell cycle in the G2/M phase by triggering a host cell DNA damage response

（55）Inhibition of transcriptional regulation of detoxification genes contributes to insecticide resistance management in Spodoptera exigua

（56）BmRPL11 Suppresses BmNPV Proliferation by Regulating Apoptosis

（57）原生丝素纳米纤维介导的纳米铋催化系统构建及其多模态抗菌应用

（58）Microsporidia novel non-coding RNA NbLNC2914 targets NBO\_58g0005 as a bmo-miR-2808a-3p sponge to regulate parasite proliferation

（59）家蚕及鳞翅目W染色体起源与演化

（60）基于氮气调控碳化策略构筑丝绸碳基柔性析氢电极及其酸碱介质中析氢性能对比研究

（61）Genome-wide CRISPR/Cas9 screening reveals BmM-ALP orchestrates antioxidant response and metabolic adaptation to confer heat resistance in Bombyx mori

（62）Metabolomic and physiological responses of mulberry plants to exogenous molybdenum enhance amino acid and sugar metabolism while inducing novel metabolites

**3．博士生组**

（1）丝素蛋白涂层铟镓合金纳米颗粒的制备及其光热抗菌功能研究

（2）Changes in Gene Expression Levels Caused by H3k9me3/H3k9ac Modifications Are Associated with Bmcpv Infection in Bombyx Mori

（3）DGAT1-mediated Lipid Metabolism Is Essential for Female Reproduction in the Silkworm, Bombyx mori

（4）Transcriptome-Based Analysis Reveals Key Molecular Mechanisms and Functional Characterization of MaCAX3 Gene Involved in Manganese Stress Responses in Mulberry Plants

（5）Analysis of the Changes in Diversity of Culturable Bacteria in Different Niches of Mulberry Fields and Assessment of Their Plant Growth-Promoting Potential

（6）The Regulatory Mechanism of Calcium Homeostasis during Starvation-Induced Autophagy and Apoptosis in Bombyx mori

（7）Bombyx mori Jun Gene Is involved in Endoreplication of Silk Gland Cells by Regulating S-phanse Cell Cycle Genes

（8）Genome-wide Transcriptome Profiling of Mulberry (Morus alba) Response to Boron Deficiency and Toxicity Reveal Candidate Genes Associated with Boron Tolerance in Leaves

（9）Molecular Mechanism and Regulatory Network of Salt Tolerance Mediated by Trihelix Transcription Factor MulASIL in Mulberry

（10）ApADC Modulates Pupal Pigmentation in Antheraea pernyi via NBAD Biosythesis in Response to Temperature Changes

（11）Lipid Metabolites Affected by Deficient Autophagy Antagonize the Occurrence of Autophagy through AMPK Signaling in Insects

（12）DNA Repair Pathway-Related Proteins Are Involved in the Circularization Step During the Formation of MicroDNA eccDNAfib-L

（13）TRAP1 Promotes Bmnpv Proliferation by Regulating ROS Generation and Autophagy Generation

（14）Functional Characterization of Cinnamyl Alcohol Dehydrogenase Family Members in Mulberry

（15）The Circadian Clock Affects Eclosion Rhythm through Ecdysonein in Silkworm, Bombyx Mori