

<<梁宋平教授文集>>

图书基本信息

书名：<<梁宋平教授文集>>

13位ISBN编号：9787564801434

10位ISBN编号：7564801433

出版时间：2010-2

出版时间：梁宋平 湖南师范大学出版社 (2010-02出版)

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页数：543

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内容概要

《梁宋平教授文集：蛋白质与活性多肽探索》收录了其关于“蛋白质与活性多肽探索”的研究文集，适合从事相关研究工作的人员参考阅读。

梁宋平教授长期从事蛋白质与活性多肽的结构与功能研究以及蛋白质化学结构测定方法学研究。近年来，在蜘蛛毒素和蛋白组学研究领域连续获得6项国家自然科学基金项目和两项"863"项目资助。

书籍目录

第一部分 蛋白质化学与蛋白质组学学术论文8-(6-氨基己基)-氨基-5-磷酸腺苷Sepharose 4B亲和吸附剂的制备与应用大熊猫乳酸脱氢酶同工酶MA的纯化与某些性质的研究The primary structure of the lactate dehydrogenase isozyme Ma from giant pandaA comparison of the primary structures of lactate dehydrogenase isozymes M4 from giant panda, redpanda, black bear and dogCovalent immobilization of proteins and peptides for solid—phase sequencing using prepacked capillary columnsSingle . step electroelution of proteins from SDS—polyacrylamide gels and immobilization on diisothiocyanate—glassbeads in prepacked capillary columns for solid—phase microsequencingAssignment of the three disulfide bridges of huwentoxin-I, a neurotoxin from the spider *Selenocosmia huwena* Chemical carboxy-terminal sequence analysis of peptides using acetyl isothiocyanate 世纪之交的蛋白质序列测定技术Assignment of the three disulfide bonds of *Selenocosmia huwena* lectin I from the venom of spider *Selenocosmia huwena*Identification of venom proteins of spider *S. huwena* on two-dimensional electrophoresis gelby N—terminal microsequencing and mass spectrometric peptide mappingChemical carboxyl . terminal sequence analysis of peptides and proteins using tribenzylsilyl isothiocyanateAssignment of the disulfide bonds of huwentoxin—II by Edman degradation sequencing and stepwisethiol modificationC-terminal sequence analysis of peptides using triphenylgermyl isothiocyanate De novo sequencing of tryptic peptides sulfonated by 4-sulfophenyl isothiocyanate for unambiguous protein identification using post-source decay matrix . . assisted laser desorption / ionization mass spectrometry Proteome comparative analysis of gynogenetic haploid and diploid embryos of goldfish(*Carassius auratus*) Proteomic analysis of mouse liver plasma membrane : use of differential extraction to enrich hydrophobic membrane proteinsIntegration of a two—phase partition method into proteomics research on rat liver plasma membrane proteins第二部分 蜘蛛活性多肽研究学术论文Properties and amino acid sequence of huwentoxin-I, a neurotoxin purified from the venom of the Chinese birdspider *Selenocosmia huwena*虎纹捕鸟蛛毒的生物学活性鉴定蜘蛛肽类神经毒素研究进展A lectin—like peptide isolated from the venom of the Chinese bird spider *Selenocosmia huwena*Proton nuclear magnetic resonance studies on huwentoxin—I from the venom of the spider *Selenocosmia huwena* : 2 . ThFee . dimensional structure in solution DEPD : a novel database for differentially expressed proteinsSolid ' phase synthesis of huwentoxin—I and its structure and bioactivity analysisOxidative folding of reduced and denatured huwentoxin . IThree—dimensional structure of *Selenocosmia huwena* lectin—I(SHL . I)from the venom of the spider *Selenocosmia huwena* by 2D-NMRPurification and characterization of huwentoxin—II, a neurotoxic peptide from the venom of the Chinesebird spider *Selenocosmia huwena*我国南方捕鸟蛛一新种的生物化学鉴定(蜘蛛目, 捕鸟蛛科)The presynaptic activity of huwentoxin—I, a neurotoxin from the venom of the Chinese bird spider *Selenocosmia huwena*The effect of Huwentoxin—I on Ca²⁺channels in differentiated NG108-15 cells, a patch—clamp studyFunction and solution structure of huwentoxin—IV, a potent neuronal tetrodotoxin(TTX)—sensitive sodium channel antagonist from Chinese bird spider *Selenocosmia huwena*The structure of spider toxin huwentoxin—11 with unique disulfide linkage : evidence for structuralevolutioncDNA sequence analysis of seven peptide toxins from the spider *Selenocosmia huwena* Purification and characterization of raventoxin . I and raventoxin—III, two neurotoxic peptides from the venom of the spider *Macrothele raveni*Structure—activity relationships of hainantoxin—IV and structure determination of active and inactive sodium channel blockers An overview of peptide toxins from the venom of the Chinese bird spider *Selenocosmia huwena* Wang [= *Ornithoctonus huwena* (Wang)]Jingzhaotoxin—III, a novel spider toxin inhibiting activation of voltage—gated sodium channel in ratcardiac myocytesAntinociceptive effects of intrathecally administered huwentoxin —I, a selective N—type calcium channelblocker . in the formalin test in conscious ratsJingzhaotoxin-I, a novel spider neurotoxin preferentially inhibiting cardiac sodium channel inactivationFunction and solution structure of Huwentoxin—X, a specific blocker of N-type calcium channels . from theChinese bird spider *Ornithoctonus huwena*Solution structure and functional characterization of Jingzhaotoxin—XI : A novel gating modifier of both potassium and sodium channelsDiscovery of a distinct superfamily of Kunitz—type toxin(KTI")from

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Tarantulas Proteome and peptidome profiling of spider venoms 第三部分 其他散文与短文寄语即将毕业的同学们从伦敦到诺丁汉——访英随笔之一阿希武德教授——访英随笔之二校园绿地与RAMP——访英随笔之三诺丁汉大学生命科学系——访英随笔之四从数字看诺丁汉大学——访英随笔之五电子邮件(E-Mail)与环球信息网(WWW)——访英随笔之六神经生物学研究室——访英随笔之七揭开生命科学的奥秘心中的铭记——缅怀恩师张龙翔教授开学感赋——与九七级研究生共勉《生命科学研究》发刊词登攀桥赤子亭记《生命科学院开发应用科研成果汇编》前言关于学位论文实验——与新入学生物化学研究生的开学笔谈《生物化学与分子生物学实验教程》前言生命科学对教育科学的启示——2005年在湖南师范大学研究生“麓山论坛”上的讲座蛛海拾贝——在第六届全国生物毒素研讨会上所作学术报告的结束语与2006级生命科学学院研究生共勉致敬爱的谢锦云老师在2008研究室工作会议上的结语一位美国教授的中国情结——记波士顿大学教授, 湖南师范大学名誉教授R. A. Lauursen附录后记

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