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摘要: ?采用杂交育种结合高肥水鉴定后代的方法育成中黄13、中黄19 和中黄35共3个超高产大豆品种。中黄13和中黄19产量各2次达4.5 t·hm^{-2}以上；中黄35利用滴灌结合施肥、化控倒伏、调节土壤pH等措施，产量3次达6.0 t·hm^{-2}以上，在大豆超高产育种和栽培研究取得进展。中黄13获2012年国家科技进步一等奖和2010年北京科技进步一等奖，推广面积已连续5年居全国首位。

Abstract: ?We used cross breeding and evaluated progenies and lines under conditions of high fertility with irrigation,developed Zhonghuang 13,Zhonghuang 19 and Zhonghuang 35,three soybean cultivars with super high yielding,and made certain progress in soybean breeding for super high yielding and cultivation.Zhonghuang 13 and Zhonghuang 19 each obtained yield of 4.5 t·ha^{-1} twice.Zhonghuang 35 got to 6.0 t·ha^{-1}three times by using drip irrigation with fertilizer,lodging controlled by chemical and soil pH regulation by ferrous sulphate.Zhonghuang 13 won State and Beijing first class Science and Technology Award,Zhonghuang 13 occupied first place among released soybean cultivars in China during the past five years.

相似文献/References:
[1]刘章雄,李卫东,孙石,等.1983～2010年北京大豆育成品种的亲本地理来源及其遗传贡献[J].(darticle.aspx?type=view&id=201301001)大豆科学,2013,32(01):1.[doi:10.3969/j.issn.1000-9841.2013.01.002]
LIU Zhang-xiong,LI Wei-dong,SUN Shi,et al.Geographical Sources of Germplasm and Their Nuclear Contribution to Soybean Cultivars Released during 1983 to 2010 in Beijing[J].Soybean Science,2013,32(05):1.[doi:10.3969/j.issn.1000-9841.2013.01.002]
[2]李彩云,余永亮,杨红旗,等.大豆脂质转运蛋白基因GmLTP3的特征分析[J].(darticle.aspx?type=view&id=201301002)大豆科学,2013,32(01):8.[doi:10.3969/j.issn.1000-9841.2013.01.003]
LI Cai-yun,YU Yong-liang,YANG Hong-qi,et al.Characteristics of a Lipid-transfer Protein Gene GmLTP3 in Glycine max[J].Soybean Science,2013,32(05):8.[doi:10.3969/j.issn.1000-9841.2013.01.003]
[3]王明霞,崔晓霞,薛晨晨,等.大豆耐盐基因GmHAL3a的克隆及RNAi载体的构建[J].(darticle.aspx?type=view&id=201301003)大豆科学,2013,32(01):12.[doi:10.3969/j.issn.1000-9841.2013.01.004]
WANG Ming-xia,CUI Xiao-xia,XUE Chen-chen,et al.Cloning of Halotolerance 3 Gene and Construction of Its RNAi Vector in Soybean (Glycine max)[J].Soybean Science,2013,32(05):12.[doi:10.3969/j.issn.1000-9841.2013.01.004]
[4]张春宝,李玉秋,彭宝,等.线粒体ISSR与SCAR标记鉴定大豆细胞质雄性不育系与保持系[J].(darticle.aspx?type=view&id=201301005)大豆科学,2013,32(01):19.[doi:10.3969/j.issn.1000-9841.2013.01.005]
ZHANG Chun-bao,LI Yu-qiu,PENG Bao,et al.Identification of Soybean Cytoplasmic Male Sterile Line and Maintainer Line with Mitochondrial ISSR and SCAR Markers[J].Soybean Science,2013,32(05):19.[doi:10.3969/j.issn.1000-9841.2013.01.005]
[5]卢清瑶,赵琳,李冬梅,等.RAV基因对拟南芥和大豆不定芽再生的影响[J].(darticle.aspx?type=view&id=201301006)大豆科学,2013,32(01):23.[doi:10.3969/j.issn.1000-9841.2013.01.006]
LU Qing-yao,ZHAO Lin,LI Dong-mei,et al.Effects of RAV gene on Shoot Regeneration of Arabidopsis and Soybean[J].Soybean Science,2013,32(05):23.[doi:10.3969/j.issn.1000-9841.2013.01.006]
[6]杜景红,刘丽君.大豆fad3c基因沉默载体的构建[J].(darticle.aspx?type=view&id=201301007)大豆科学,2013,32(01):28.[doi:10.3969/j.issn.1000-9841.2013.01.007]
DU Jing-hong,LIU Li-jun.Construction of fad3c Gene Silencing Vector in Soybean[J].Soybean Science,2013,32(05):28.[doi:10.3969/j.issn.1000-9841.2013.01.007]

[7]张力伟,樊颖伦,牛腾飞,等.大豆“冀黄13”突变体筛选及突变体库的建立[J]. (darticle.aspx?type=view&id=201301008)大豆科学,2013,32(01):33.[doi:10.3969/j.issn.1000-9841.2013.01.008]
ZHANG Li-wei,FAN Ying-lun,NIU Teng-fei?,et al.Screening of Mutants and Construction of Mutant Population for Soybean Cultivar "Jihuang13"[J].Soybean Science,2013,32(05):33.[doi:10.3969/j.issn.1000-9841.2013.01.008]
[8]盖江南,张彬彬,吴瑶,等.大豆不定胚悬浮培养基因型筛选及基因枪遗传转化的研究[J]. (darticle.aspx?type=view&id=201301009)大豆科学,2013,32(01):38.[doi:10.3969/j.issn.1000-9841.2013.01.009]
GAI Jiang-nan,ZHANG Bin-bin,WU Yao,et al.Screening of Soybean Genotypes Suitable for Suspension Culture with Adventitious Embryos and Genetic Transformation by Particle Bombardment[J].Soybean Science,2013,32(05):38.[doi:10.3969/j.issn.1000-9841.2013.01.009]
[9]王鹏飞,刘丽君,唐晓飞,等.适于体细胞胚发生的大豆基因型筛选[J]. (darticle.aspx?type=view&id=201301010)大豆科学,2013,32(01):43.[doi:10.3969/j.issn.1000-9841.2013.01.010]
WANG Peng-fei,LIU Li-jun,TANG Xiao-fei,et al.Screening of Soybean Genotypes Suitable for Somatic Embryogenesis[J].Soybean Science,2013,32(05):43.[doi:10.3969/j.issn.1000-9841.2013.01.010]
[10]刘德兴,年海,杨存义,等.耐酸铝大豆品种资源的筛选与鉴定[J]. (darticle.aspx?type=view&id=201301011)大豆科学,2013,32(01):46.[doi:10.3969/j.issn.1000-9841.2013.01.011]
LIU De-xing,NIAN Hai,YANG Cun-yi,et al.Screening and Identifying Soybean Germplasm Tolerant to Acid Aluminum[J].Soybean Science,2013,32(05):46.[doi:10.3969/j.issn.1000-9841.2013.01.011]
[11]章建新,朱倩倩,王维俊.不同滴水量对大豆根系生长和花荚形成的影响[J]. (darticle.aspx?type=view&id=201305007)大豆科学,2013,32(05):609.[doi:10.11861/j.issn.1000-9841.2013.05.0609]
ZHANG Jian-xin,ZHU Qian-qian,WANG Wei-jun.Effect of Drip Irrigation Quantities on Roots Growth and Formation of Flowers and Pods in Soybean[J].Soybean Science,2013,32(05):609.[doi:10.11861/j.issn.1000-9841.2013.05.0609]
[12]张晓霞 ,张惠君 ,宋书宏 ,等.超高产大豆根系活力和根瘤特性的比较研究[J]. (darticle.aspx?type=view&id=20130413)大豆科学,2013,32(04):496.[doi:10.11861/j.issn.1000-9841.2013.04.0496]
ZHANG Xiao-xia,ZHANG Hui-jun,SONG Shu-hong,et al.Comparison on Root Activity and Nodulation Characteristics of Super-high-yielding Soybeans[J].Soybean Science,2013,32(05):496.[doi:10.11861/j.issn.1000-9841.2013.04.0496]
[13]章建新,贾珂珂,艾红玉.中熟超高产大豆品种的花荚形成及时空分布[J]. (darticle.aspx?type=view&id=201303008)大豆科学,2013,32(03):316.[doi:10.11861/j.issn.1000-9841.2013.03.0316]
ZHANG Jian-xin,JIA Ke-ke,AI Hong-yu.Formation and Space-time Distribution of Flowers and Pods for Mid-mature Super-high-yielding Soybeans[J].Soybean Science,2013,32(05):316.[doi:10.11861/j.issn.1000-9841.2013.03.0316]
[14]盖嘉慧,闫孝贞,刘剑钊,等.吉林中部超高产大豆的生育特征与营养特性研究[J]. (darticle.aspx?type=view&id=201403029)大豆科学,2014,33(03):451.[doi:10.11861/j.issn.1000-9841.2014.03.0451]
GAI Jia-hui,YAN Xiao-gong,LIU Jian-zhao,et al.Growth and Nutrition Characteristics of Soybean in the Middle of Jilin Province[J].Soybean Science,2014,33(05):451.[doi:10.11861/j.issn.1000-9841.2014.03.0451]
[15]肖亦农,谢甫绨,肖万欣.不同肥密处理对超高产大豆氮素吸收和产量的影响[J]. (darticle.aspx?type=view&id=201105012)大豆科学,2011,30(05):769.[doi:10.11861/j.issn.1000-9841.2011.05.0769]
XIAO Yi-nong,XIE Fu-ti,XIAO Wan-xin.Effect of Different Fertilizer Level and Planting Density on Nitrogen Absorption and Yield of Super-High-Yielding Soybean[J].Soybean Science,2011,30(05):769.[doi:10.11861/j.issn.1000-9841.2011.05.0769]
[16]章建新,周婷,贾珂珂.超高产大豆品种花荚形成及其时空分布[J]. (darticle.aspx?type=view&id=201205010)大豆科学,2012,31(05):739.[doi:10.3969/j.issn.1000-9841.2012.05.010]
ZHANG Jian-xin,ZHOU Ting,JIA Ke-ke.Formation and Space-time Distribution of Flowers and Pods for Super-high-yielding Soybeans[J].Soybean Science,2012,31(05):739.[doi:10.3969/j.issn.1000-9841.2012.05.010]
[17]肖万欣,张惠君,王海英,等.钙和镁在超高产大豆辽豆14器官中的积累与分布[J]. (darticle.aspx?type=view&id=200901010)大豆科学,2009,28(01):46.[doi:10.11861/j.issn.1000-9841.2009.01.0046]
XIAO Wan-xin,ZHANG Hui-jun,WANG Hai-ying,et al.Accumulation and Distribution of Ca and Mg in Super High Yielding Soybean cv.Liaodou 14[J].Soybean Science,2009,28(05):46.[doi:10.11861/j.issn.1000-9841.2009.01.0046]
[18]肖万欣,谢甫绨,张惠君,等.超高产大豆辽豆14的氮素积累与利用[J]. (darticle.aspx?type=view&id=200806012)大豆科学,2008,27(06):960.[doi:10.11861/j.issn.1000-9841.2008.06.0960]
XIAO Wan-xin,XIE Fu-ti,ZHANG Hui-jun,et al.Accumulation and Utilization of Nitrogen in Super-High-Yielding Soybean cv.Liaodou 14[J].Soybean Science,2008,27(05):960.[doi:10.11861/j.issn.1000-9841.2008.06.0960]
[19]王岚,王连铮,赵荣娟,等.大豆超高产育种研究[J]. (darticle.aspx?type=view&id=200703025)大豆科学,2007,26(03):407.[doi:10.3969/j.issn.1000-9841.2007.03.025]
WANG Lan,WANG Lian-zheng,ZHAO Rong-juan,et al.STUDY ON SOYBEAN BREEDING FOR SUPER HIGH-YIELDING[J].Soybean Science,2007,26(05):407.[doi:10.3969/j.issn.1000-9841.2007.03.025]
[20]满为群 杜维广 张桂茹 栾晓燕 陈怡 谷秀芝.大豆超高产潜力的探讨[J]. (darticle.aspx?type=view&id=200102004)大豆科学,2001,20(02):94.[doi:10.11861/j.issn.1000-9841.2001.02.0094]
Man Weiqun Du Weiguang Zhang Guiru Luan Xiaoyan Chen Yi Gu Xiuzhi.STUDDYON SUPER-HIGH YIELD POTENTIALITYOF SOYBEAN[J].Soybean Science,2001,20(05):94.[doi:10.11861/j.issn.1000-9841.2001.02.0094]

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