



山西农业大学农学院 (作物科学研究所)

College of Agriculture, Shanxi Agricultural University (Institute of Crop Sciences)

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概况

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一、个人简介

孙黛珍, 女, 博士, 教授、博士生导师。山西省教学名师、山西省研究生教育优秀导师、山西省科技创新人物、山西省131工程优秀人才。兼任中国作物学会种子分会理事、山西省作物学会理事、山西省遗传学会理事、曾被山西省委组织部和农业厅聘为农业科技入户项目服务热线专家、山西省“百日科技服务行动”首席专家。曾担任农学院副院长、作物遗传育种系主任、山西省现代农业产业技术体系小麦产业技术体系遗传育种、种子科学教学与科研工作。

二、学习工作经历

学习简历:

2010-2011	澳大利亚 悉尼大学	高级访问学者
2008-2010	山西农业大学 作物学博士后流动站	博士后
2002-2006	南京农业大学 作物遗传育种	博士
2000-2001	波兰 波兹南农业大学 种子科学	硕士
1995-1999	山西农业大学 作物遗传育种	硕士
1983-1987	山西农业大学 农学专业	学士

工作简历:

2009-今	山西农业大学农学院作物遗传育种、作物生物技术	博导
2007-今	山西农业大学作物遗传育种	教授
2001-2007	山西农业大学农学院遗传育种系	副教授

9. 基于新型植物复合叶肥的小麦高产优质技术集成示范与推广, 山西科技成果转化和推广示范项目, 2015
10. Wheat breeding and selection strategies to combine and validate QTLs for WUE and heat tolerance in China CGIAR国际挑战计划 (G70)
11. 小麦抗旱新基因的分子标记与新品种选育, 山西省科技攻关项目 (20100311001-6)
12. 小麦优异育种群体的构建及新品种选育, 山西省留学基金项目, (2010048)
13. 小麦抗旱相关性状QTL定位及抗旱新品种选育, 山西省人才引进与开发专项资金, 2012
14. 转基因合成小麦新种质, 山西省留学基金, (2004044)
15. 生化标记辅助选育优质小麦, 山西省科技攻关项目, (2007031001-6)
16. 小麦新种质的标记辅助选育, 山西省回国留学人员择优资助项目, 2008
17. 向普通小麦导入黑麦优良基因的研究, 山西省青年基金, (20031044)

六、代表性论文

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2. 通讯作者. Transcriptome Differences in Response Mechanisms to Low-Nitrogen Stress in Two Wheat Varieties, *Int. J. Mol. Sci.* <https://doi.org/10.3390/ijms222212278>
3. 通讯作者. In Silico and Transcription Analysis of Trehalose-6-phosphate Phosphatase Gene Family of Wheat: Trehalose Synthesis Genes Correlate with Drought Stress and Leaf Senescence, *Genes* 2021, 12, 1652. <https://doi.org/10.3390/genes12111652>
4. 通讯作者. SiMYB19 from Foxtail Millet (*Setaria italica*) Confers Transgenic Rice Tolerance to High Salt Stress in the Field; *Int. J. Mol. Sci.* <https://doi.org/10.3390/ijms23020756>
5. 通讯作者. Mining the stable quantitative trait loci for agronomic traits in wheat (*Triticum aestivum* L.) based on an introgression line population. *Plant Biology*, 2020, 20:275
6. 通讯作者. QTL mapping for flag leaf-related traits and genetic effect of QFLW-6A on flag leaf width using two related introgression line populations. *Plant Science* 2021, 200:115772. <https://doi.org/10.1016/j.psc.2021.115772>
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7. 通讯作者. QTL mapping and candidate gene analysis of seed vigor-related traits during artificial aging in wheat (*Triticum aestivum* L.). *Genetics*, 2020,10:22060.
8. 通讯作者.Genome-wide identification and characterization of long non-coding RNAs related to grain yield in foxtail millet [*Setaria italica* L.] *Genomics*, 2020,21:853.
9. 通讯作者. A method for the identification and evaluation of stay-green wheat variety, *Current Science*, 2020, 118(9):1407-1414.
10. 通讯作者. Identification of TaPPH-7A haplotypes and development of a molecular marker associated with important agronomic traits in wheat *Biology*, 2019, 19:296.
11. 通讯作者.QTL analysis of wheat kernel traits, and genetic effects of qKW-6A on kernel width, *Euphytica*, 2019, 215:11
12. 通讯作者. Dynamic analysis of QTLs for green leaf area duration and green leaf number of main stem in wheat. *Cereal Research and Communications* (DOI: 10.1556/0806.47.2019.006)
13. 通讯作者. Mapping quantitative trait loci for important agronomic traits and developing potential near-isogenic lines in wheat, *International Journal of Agricultural Biology*, 2019, DOI: 10.17957/IJAB/15.1028
14. 通讯作者.Screening of wheat (*Triticum aestivum* L.) varieties with high nitrogen use efficiency under rainfed and irrigated conditions, *Turk J Food Agric* 2019, 13:131
15. 通讯作者. QTL analysis for stomatal density and size in wheat spike organ, *Emirates Journal of Food and Agriculture*. 2018. 30(3): 173-179
16. 通讯作者.Genetic Correlation Analysis of Photosynthetic Characteristics, Yield and Drought Resistance in Spring Wheat (*Triticum aestivum* L.) *Journal of Agriculture and Biology*. 2017, 19: 99–104
17. 通讯作者. Mapping QTLs for stomatal density and size under drought stress in wheat (*Triticum aestivum* L.). *Journal of Integrative Agriculture* 2017, 16:1657–1667
18. 通讯作者. Dynamic QTL analysis of chlorophyll content during grain filling stage in winter wheat (*Triticum aestivum* L.). *Acta Horticulturae* 2017, 33: 77-85
19. 通讯作者. Quantitative trait loci mapping for traits related to the progression of wheat flag leaf senescence. *The Journal of Agricultural Science* 2015, 155: 100–108
20. 通讯作者. Genetic basis of traits related to stomatal conductance in wheat cultivars in response to drought stress. *Photosynthetica*, 2015, 53 (2): 207–214

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23. 通讯作者. Relation of Leaf Stomatal Traits to Yield and Drought Resistance of Wheat. MER, 2013, 4(5-6):54-58.
24. 通讯作者. 采用优化的数字PCR方法分析转基因小麦外源基因拷贝数, 中国农业科学, 2020, 53(10):1931-1939
25. 通讯作者. 高 CO₂ 浓度、干旱及其互作对不同持绿型小麦幼苗的影响, 应用生态学报, 2020, 31(7): 2407--2414
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27. 通讯作者. 过表达谷子 SiANT1 对水稻耐盐性的影响, 中国农业科学, 2018, 51(10):1830-1841
28. 通讯作者. 小麦醇溶蛋白亚基与品质性状的相关性分析. 中国粮油学报, 2013, 28(5): 31-36
29. 通讯作者. 小麦叶片气孔性状与产量和抗旱性的关系. 应用生态学报, 2013, 24(6): 1609-1614
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七、专著教材

(一) 专著

1. 《夏县小麦高产优质种植技术》编著 中国农业科学技术出版社 2015.7
2. 《生理学在小麦育种中的应用》译著 科学出版社 2013.01
3. 《油料作物遗传育种原理与方法》著, 中国农业科学技术出版社, 2009.11
4. 《水稻抗条纹叶枯病遗传育种》著, 中国农业科学技术出版社, 2007.6
5. 《小麦科学种植技术》编著, 中国社会出版社, 2006.9
6. 《菜田有害生物综合治理》编著, 气象出版社, 2001.4

(二) 教材

1. 《种子生物学》第二版, 参编, 中国农业出版社, 2020.01 (十三五规划教材)
2. 《种子学》精编版, 参编, 中国农业出版社, 2020.08 (十三五规划教材)
3. 《种子检验》第二版 参编, 中国农业出版社 2015.6 (十二五规划教材)

4. 《种子学》参编，科学出版社，2015.06（十二五规划教材）
4. 《种子学》参编 中国农业出版社 2014.11（农业部十二五规划教材）
5. 《作物育种学》副主编 科学出版社 2014.03（国家精品课程配套教材）
6. 《种子生产学实验技术》副主编 科学出版社 2014.07（全国高等农林院校规划教材）
7. 《种子贮藏加工学》副主编，中国农业大学出版社，2010.11（面向二十一世纪课程教材）
8. 《种子学》参编，科学技术出版社，2010.08（十一五规划教材）
9. 《作物育种学实验技术》参编，科学技术出版社，2010.08（十一五规划教材）
10. 《种子生物学》副主编，中国农业出版社，2009.1（十一五规划教材）
11. 《种子学实验技术》副主编，中国农业出版社，2008.2（十一五规划教材）
12. 《种子检验》参编，中国农业出版社，2007.8（十一五规划教材 获国家优秀教材奖）
13. 《种子贮藏加工》副主编，中国农业大学出版社，2001.7（面向二十一世纪课程教材）

七、成果专利规程

（一）成果

1. 山西省1998年农村技术承包“麦田化学除草技术实施”集体一等奖。
2. “棉花沟播节省型生理定向栽培技术”2003年通过山西省科技厅成果鉴定，达国内领先水平。
3. 小麦持绿抗旱新基因挖掘与育种价值评估，2020.4山西省高等学校科学研究优秀成果二等奖，第一名。
4. 山西省科学技术奖自然科学二等奖1项，2020，第一名。

（二）专利

1. 新型防拥堵免缠绕小麦旋耕正位深施肥宽幅播种机，国际专利，专利号: 2021106512，第一
2. 新型组合式锄铲正位深施肥宽幅播种开沟器，国际专利，专利号: 2021106494，第一
3. 植物复合叶肥及其制备方法，国家发明专利：ZL 201210151725.1，2014.8.6；第一
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5. 一种防治地下害虫及土传病害的喷药旋耕机，专利号：ZL2017209822871，2018.1.30；第一

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7. 一种多功能小麦叶片性状测定装置, 专利号: ZL201821400511.2, 2019.2.5;
8. 一种小麦叶片叶绿素提取装置, 专利号: ZL201821229008.5, 2018.2.22;
9. 一种节肥旱地小麦播种机, 专利号: ZL2018211134658, 2019.01.25;
10. 小麦旗叶衰老特征检测方法, 国家发明专利: ZL 201510804637.0, 2017.4.26;
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九、荣誉奖励

1. 2021年, 山西省科学技术奖自然科学二等奖
2. 2020年, 山西省高等学校优秀成果奖(科学技术)二等奖
2. 2019年, 山西省“三晋英才”拔尖骨干人才
3. 2019年, 获科学之春SSTM “2018年度山西省科技创新人物”
4. 2019年, 获山西省科教兴晋突出贡献专家
5. 2015年, 民革优秀党员
6. 2014年, 山西省高校“131”领军人才工程优秀中青年拔尖创新人才
7. 2014年, 山西省研究生教育优秀导师
8. 2014年, 山西省2012年度优秀硕士学位论文指导教师
9. 2013年, 山西农业大学职业道德模范
10. 2011年, 山西省2010年度优秀硕士学位论文指导教师
11. 2010年, 山西省教学名师
12. 2010年, 山西省现代农业产业技术体系小麦产业岗位专家

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