

### 苹果无融合生殖砧木‘青砧 1 号’

沙广利<sup>1,\*</sup>, 郝玉金<sup>2</sup>, 宫象晖<sup>1</sup>, 束怀瑞<sup>2</sup>, 黄粤<sup>1</sup>, 邵永春<sup>1</sup>, 尹涛<sup>1</sup>

<sup>1</sup> 青岛市农业科学研究院, 山东青岛 266100; <sup>2</sup> 山东农业大学园艺科学工程学院, 山东泰安 271018

### Apple Apomictic Rootstock ‘Qingzhen 1’

SHA Guang-li<sup>1,\*</sup>, HAO Yu-jin<sup>2</sup>, GONG Xiang-hui<sup>1</sup>, SHU Huai-rui<sup>2</sup>, HUANG Yue<sup>1</sup>, SHAO Yong-chun<sup>1</sup>, and YIN Tao<sup>1</sup>

<sup>1</sup>Qingdao Agricultural Academy, Qingdao, Shandong 266100, China; <sup>2</sup>College of Horticulture Science & Engineering, Shandong Agricultural University, Tai’an, Shandong 271018, China

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摘要 苹果无融合生殖砧木‘青砧1号’是1999年通过杂交育种获得,母本为平邑甜茶(*Malus hupehensis* Rehd.),父本为柱型苹果株系CO(*Malus × domestica* Borkh.)。该砧木树体柱形,无融合生殖坐果率97.0%~98.1%,种子繁殖,实生苗整齐,可以直接作为基础嫁接‘嘎拉’、‘乔纳金’、‘烟富3’和‘烟富6’等主栽品种,表现亲和性好,成苗率高;嫁接树抗重茬病能力强,并且成花早,产量高,果实品质优,适于在环渤海湾、黄土高原等中国苹果主产区应用。

关键词: 苹果 无融合生殖 砧木 品种

Abstract: Apomictic apple rootstock ‘Qingzhen 1’ is obtained by a traditional hybridization breeding approach in 1999. Its maternal and paternal parents are apomictic crabapple ‘Pingyitiancha’ (*Malus hupehensis* Rehder) and columnar apple strain ‘CO’ (*Malus × domestica* Borkh.), respectively. ‘Qingzhen 1’ tree is gentleness with a columnar habit. Its apomictic fruit setting ability is high up to 97.0% - 98.1%, and therefore it propagated with seeds. The population of one-year-old ‘Qingzhen 1’ seedlings are uniform in appearance, dwarf in stature and vigorous in growth. As rootstock, the seedlings of ‘Qingzhen 1’ had a

good compatibility with scion cultivars, such as ‘Gala’, ‘Fuji’ and ‘Jonagold’. As a result, the grafted tree exhibited high resistance to apple branch ring rot and re-plant disease, as well as early flowering, increased fruit yield and good quality.

To sum up, ‘Qingzhen 1’ is suitable to use as apple rootstock in the main production region for apple industry around Bohai Bay and Loess Plateau.

Keywords: apple, apomixis, rootstock, cultivar

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