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Original article

A simulation study of the effect of connectedness on genetic trend

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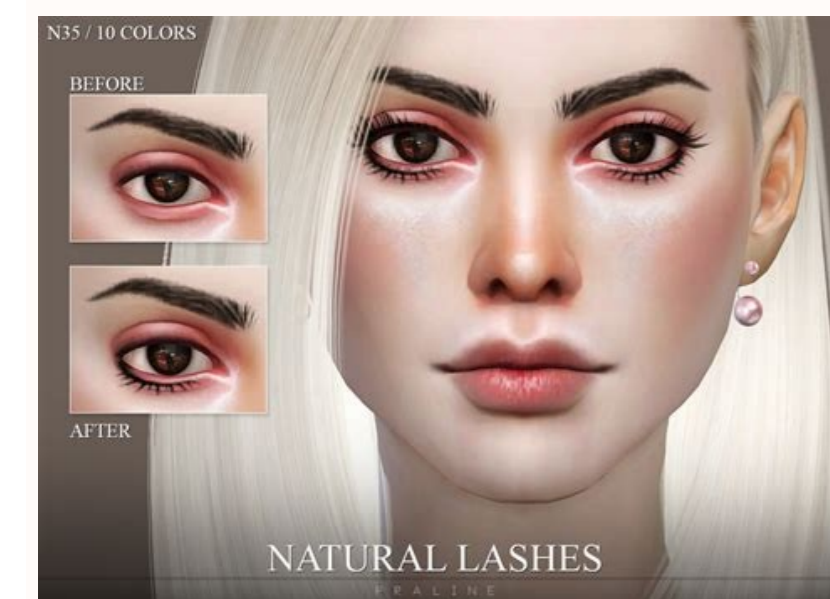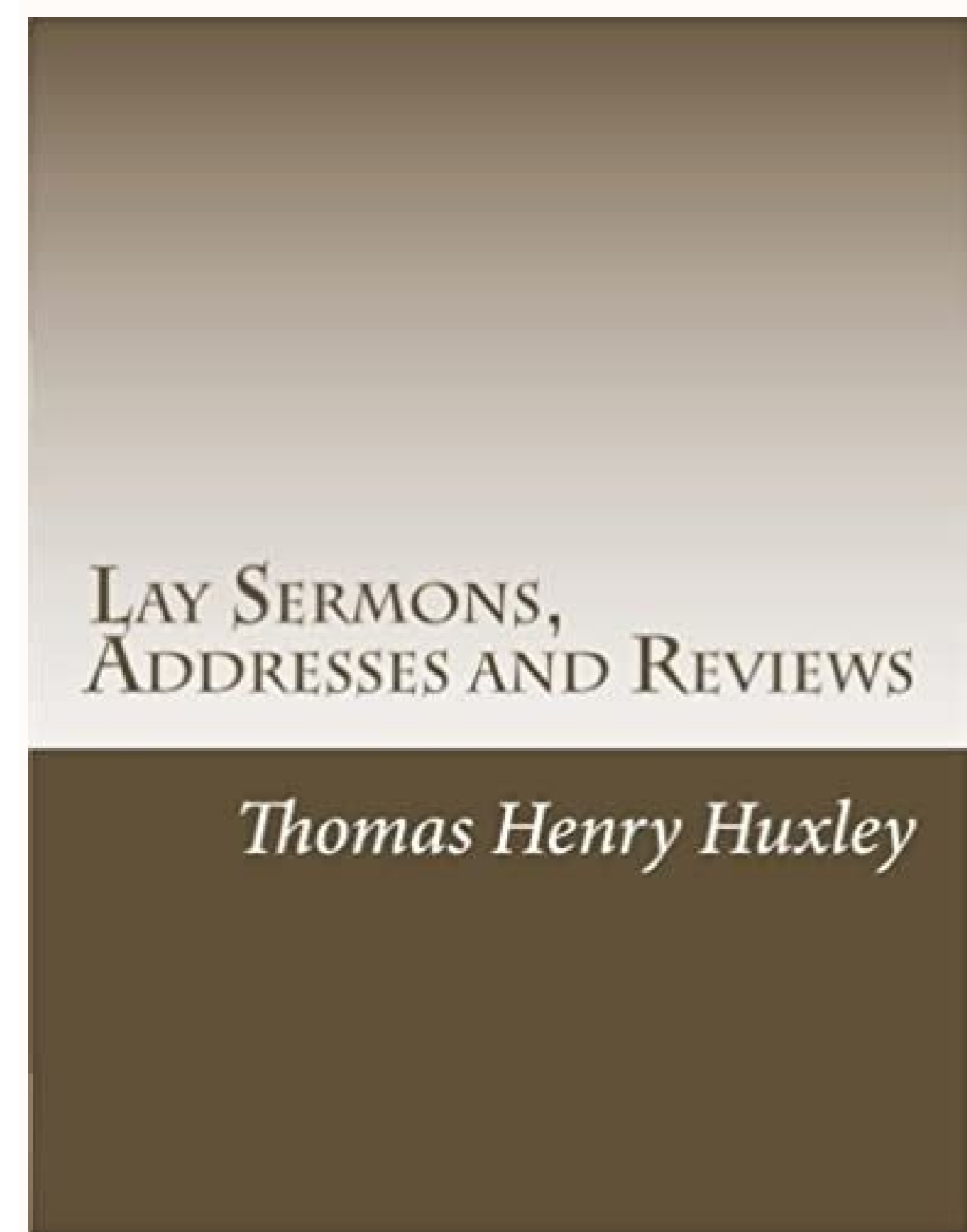de la recherche agronomique, 78352 Jouy-en-Josas cedex, France

Summary — A breeding scheme was simulated with four subpopulations over seven separate generations. Males were progeny tested before selection. A varying proportion of link sires were used across populations to estimate the genetic level of each subpopulation. The male replacement policy allowed some gene flow across subpopulations. Without any connection between subpopulations, the genetic differences between subpopulations were not estimable and the overall genetic trend was limited. With few connections (proportion of link sires = 1/16), the accuracy of the contrast between subpopulations was poor but the gene flow between subpopulations made it possible to increase the overall genetic trend, particularly for the first generations. A high level of connection improved the accuracy of the genetic evaluation but only slightly increased the genetic trend.

connectedness / genetic trend / progeny testing / design efficiency / selection strategy

Résumé — Étude par simulation de l'effet du degré de connexion sur le progrès génétique. Un schéma de sélection constitué de quatre sous-populations est simulé durant sept générations séparées. Les mâles sont sélectionnés à l'issue de leur testage sur descendance. Des mâles de connexion sont utilisés en proportion variable afin d'estimer le niveau génétique de chaque sous-population, ou groupe de taureaux. La politique de renouvellement adoptée permet l'existence de flux de gènes entre les sous-populations. En l'absence de connexion, les différences génétiques entre groupes de taureaux ne sont pas estimables et le progrès génétique global est limité. En présence de connexions en faible quantité (proportion de taureaux de connexion de 1/16), la précision des contrastes entre sous-populations est réduite mais le flux de gènes existant permet l'augmentation du progrès génétique global, en particulier à la première génération de sélection. Un degré de connexion important améliore la précision de l'évaluation génétique mais l'accroissement supplémentaire du progrès génétique est faible.

connexion / progrès génétique / testage sur descendance / efficacité des dispositifs / stratégie de sélection

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LAY SERMONS, ADDRESSES AND REVIEWS

Thomas Henry Huxley

N3V/10 COLORS

BEFORE

AFTER

NATURAL LASHES

Plants store iron mainly in the form of ferricine structures accumulated mainly in non-green plastans, etioplasts and amiloplasts. Interest in the gene modification of GLIADINES has been stimulated, not being contributed to the quality of the mass, but also because it includes the majority of immunog -related immunogenic epitopes. , as anaphylaxis induced to exercise (wdeia) and disease celáaca [136, 137]. Iron and zinc are essential micronutrients for human nutrition. Thus, it is necessary to identify the main most important and their structure, their structure, role and function in the development of wheat plants and, finally, for greater grain yield and better quality. Pellegrineschi has been employed by two large Biotech companies, Pioneer Hi Breed and Du Pont, which indirectly confirms that he has developed a trigus transformation protocol that allowed him to produce the published results. Other target genes used for the control of RNAi grain aphids in the transgenic wheat were the lipase-like2 maturation gene from the Aphid Acyrthosiphon Pisum [164], Gene Carxyleteraase [165], HPA1 [166], and a gene that encodes a salivary sheath protein [167]. SP. Determine whether these intentional selection pressures produce good or bad results, most often occurs in retrospective, but not always. [66] They were able to reach close to 100% regeneration of Cali plants of ripe and immature wheat embryoin at 2.0 mg/l picloram, using a regeneration medium with 0.1 mg/l 2.4-D, 5.0 mg/l ZEATIN and 15 mg/l CuSO4. For gene editing in wheat, a cas9 protein containing one or more signs for nuclear location is expressed from an optimized Codon gene under the control of RNA Polymerase II promoters such as CAMV35S or Zmubi, while the Sgrna is usually expressed by a polymerase III prosecutor (more rice or wheat U6 and U3 promoters). One of the additional advantages of the CRISPR/Cas9 system is yours for multiplexing, i.e., the simultaneous targeting of several genes with a single molecular construct. They found that bombarding the exposed shoot apical meristems of the wheat cultivars Fielder and Haruyokoi, using 0.6 Å¼Åm gold particles and 1350 psi pressure, resulted in the integration of the GFP reporter gene into the germline cells in 62% of regenerated plants (transformants), including possible chimeric individuals. In wheat, HIGS has been most widely applied to control fungal and insect diseases. It was shown by Ishida et al. The authors claim that these methods not only eliminate random integration of the CRISPR/Cas9 coding DNA elements into the targeted genome, but also reduce off-target effects. The full potential of the wheat in planta procedures published to date is yet to be fully realized.Microspore transformation using immature pollen grains is a method that generates doubled haploid homozygous wheat plants in a single generation. Minichromosomes have the potential to act as ¢ÅÅÅsuper-vector platforms¢ÅÅÅ for the organization and expression of foreign genes and may even be designed with Cre/lox recombination sites to accept the introduction of new genes. Clinical

Laboratory Medicine, 30, 829-846. Edited wheat plants have been regenerated from immature embryos, immature embryo-derived callus, or shoot apical meristems transformed via particle bombardment [176, 177, 180cÂÂÂ184] or Agrobacterium [185, 186].Recently, protocols for DNA-free editing of wheat by delivering in vitro transcripts, or ribonucleoprotein complexes (RNPs) of CRISPR/Cas9 by particle bombardment, have been developed [176, 177]. Such differences in the phenotypes obtained in these two studies may be explained by a cultivar-specific reaction to experimental intervention, and/or by the application of different transformation protocols, as has been previously reported for barley [93].Plant growth and productivity to a large extent relies The capture of carbon, nitrogen and fanbrium. (2002). More recently, the base-directed editing systems targeted in wheat were established by merging a cytidine disaminnase [181] or adenosine disaminase [192] for nickase cas9 csr cig to t/a or a/t for a conversion of g/c. [67] They developed a protocol for the regeneration of the einkorn wheat (A e. The authors point that this modification of the medium brought an increase in the number of somatred embryoids and possibly also reduced Stress during the bombing of the CT talus due to high osmolarity. The resistant plants to kanamicin produced were analyzed by PCR and Gus histoquaminc colorage of embryion. AADEL et al. Agrobacterium strains [5, 60] or usage Of bacterial spirit that is not a pathogenic nature [61].

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