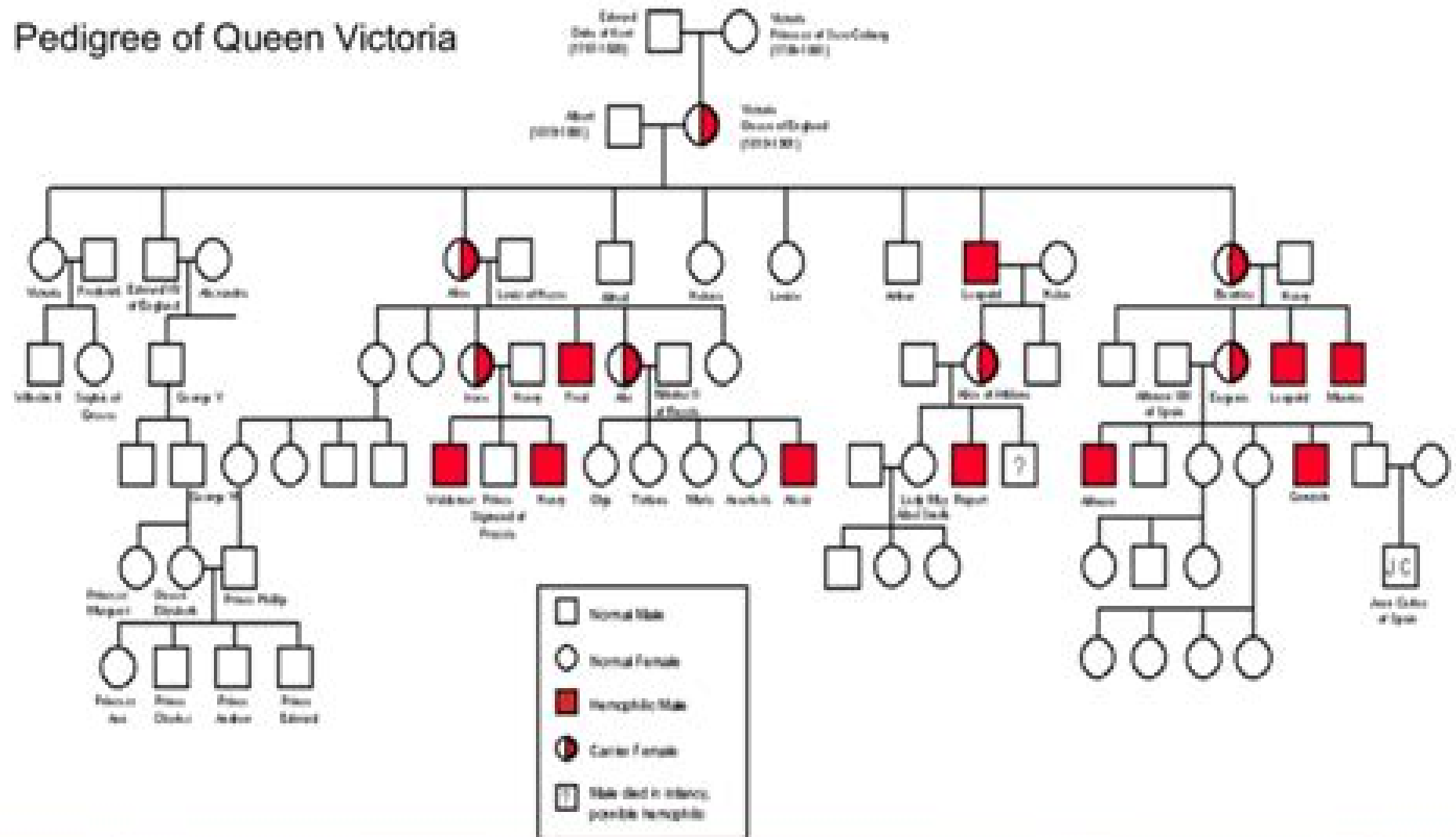


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Ear Paul Fuchs, 2010-01-14 The first volume in The Oxford Handbook of Auditory Science The Ear serves both as an introduction and as a reference work for anyone interested in how hearing happens It will be a valuable resource for anyone interested in the ongoing challenge and adventure of understanding the mysteries of the ear *Levine/M Biology Ig for Lab Guide* Levine, 1991

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Advances in Conservation and Use of Potato Genetic Resources Iris Edith Peralta, Alfonso H. Del Rio, Gustavo Heiden, Dave Ellis, Peter Giovannini, 2024-11-22 The potato is the world's most important non cereal food with a global production of 370 million tonnes The cultivated potato *Solanum tuberosum* L AABB 2n 4x 48 genome size 844 Mb belongs to *Solanum* section *Petota* and was domesticated in the South American Andes about 8 000 to 10 000 years ago The *Petota* section is characterized by a broad genetic diversity involving introgressions interspecific hybridization events auto and allopolyploidy and a high degree of morphological similarities Overall 7 cultivated and 228 wild species Hawkes 1990 or 4 cultivated and 107 wild species Spooner et al 2014 were described and are conserved through 82 000 accessions in 89 institutions Depending on the genetic material clonal plants are preserved in field genebanks and or in vitro slow growth storage and or cryopreservation or as seeds in cold storage facilities However challenges for efficient identification of collection gaps conservation and usage of potato genetic resources in potato breeding programs are the differences in taxonomic classification the limited information and advances in characterization evaluation sequencing and conservation approaches The aim of this research topic is to highlight the latest developments and strategies in the conservation and use of potato genetic resources It addresses different scientific fields i e plant physiology genetics functional genomics phenomics taxonomy computer modeling and database management

Molecular Genetic Approaches in Conservation Thomas Bates Smith, Robert K. Wayne, 1996 Molecular techniques are proving invaluable in determining the phylogenetic status of potentially endangered species for investigating mechanisms of speciation and for measuring the genetic structure of populations It is increasingly important for ecologists and evolutionary and conservation biologists to understand and use such molecular techniques but most workers in these areas have not been trained in molecular biology This book lays out the principles and basic techniques for the molecular tools appropriate for addressing issues in conservation and it presents case

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Conservation and the Genomics of Populations Frederick William Allendorf, W. Chris Funk, Sally N. Aitken, Margaret Byrne, Gordon Luikart, 2022 The third edition of this established textbook provides an updated and comprehensive overview of the essential background concepts and tools required to understand how genetics can be used to conserve species reduce threat of extinction and manage species of ecological or commercial importance

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