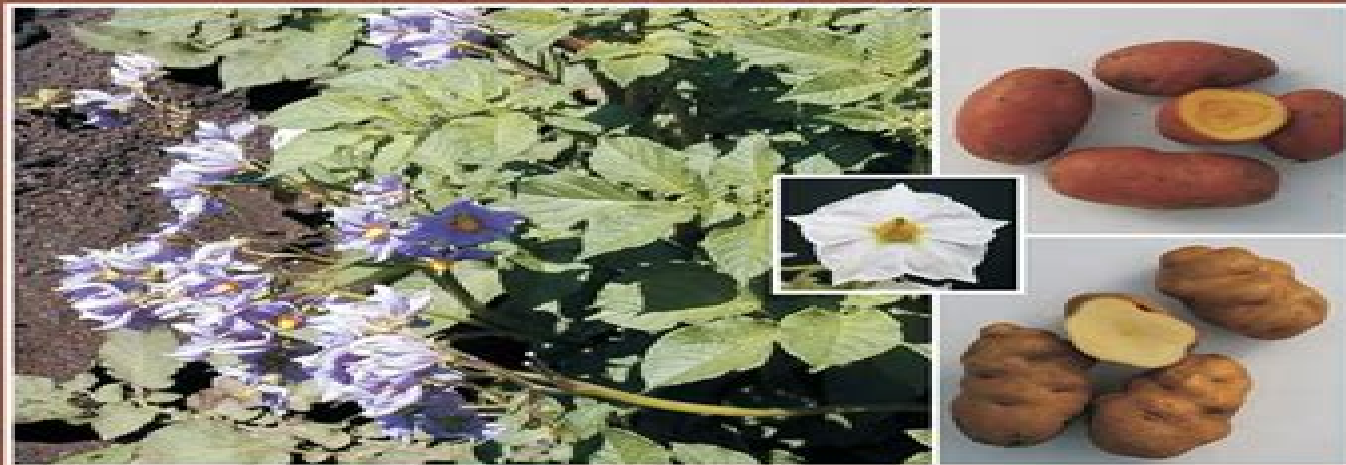


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# Genetics, Genomics and Breeding of Potato

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# Potato Genetics

**Jai Gopal, S.M. Khurana**



## **Potato Genetics:**

*Genetics, Genomics and Breeding of Potato* James M. Bradeen, Chittaranjan Kole, 2016-04-19 In this volume world leaders in potato research review historical and contemporary discoveries resulting in a range of advances Topics include nutritional quality yield disease and insect resistance processing plant growth and development and other aspects The book also examines research yielding significant molecular resources that facilitate breeding linkage and gene mapping cytology functional and structural genomics proteomics and metabolomics Future research developments that are

Potato Breeding: Theory and Practice John E. Bradshaw, 2021-04-09 The potato *Solanum tuberosum* is the world's fourth most important food crop after maize rice and wheat with 377 million tonnes fresh weight of tubers produced in 2016 from 19.2 million hectares of land in 163 countries giving a global average yield of 19.6 t ha<sup>-1</sup> <http://faostat.fao.org> About 62% of production 234 million tonnes was in Asia 191 Africa 25 and Latin America 18 as a result of steady increases in recent years particularly in China and India As a major food crop the potato has an important role to play in the United Nations 2030 Agenda for Sustainable Development which started on 1 January 2016 <http://faostat.fao.org> By 2030 the aim is to ensure access by all people in particular the poor and people in vulnerable situations including infants to safe nutritious and sufficient food all year round By then the world population is expected to reach 8.5 billion and continue to increase to 9.7 billion in 2050 For potatoes the need is to increase production and improve nutritional value during a period of climate change a key aspect of which will be the breeding of new cultivars for a wide range of target environments and consumers The aim of the book is to help this endeavour by providing detailed information in three parts on both the theory and practice of potato breeding Part I deals with the history of potato improvement and with potato genetics Part II deals with breeding objectives divided into improving yield quality traits and resistance to the most important diseases and pests of potatoes Part III deals with breeding methods first the use of landraces and wild relatives of potato in introgression breeding base broadening and population improvement second breeding clonally propagated cultivars as a way to deliver potato improvement to farmers fields third as an alternative breeding potato cultivars for propagation through true potato seed and fourth gene editing and genetic transformation as ways of making further improvements to already successful and widely grown cultivars Included are marker assisted introgression and selection of specific alleles genomic selection of many unspecified alleles and diploid F1 hybrid breeding

Potato Genetics J. E. Bradshaw, G. R. Mackay, 1994 Origins species and cytology Theory and methods of genetical analysis Cellular and molecular genetics Environmental stress morphology and quality Inheritance of resistance to pests and diseases Potato breeding

*Genetics, Genomics and Breeding of Potato* James M. Bradeen, Chittaranjan Kole, 2017-07-21 In this volume world leaders in potato research review historical and contemporary discoveries resulting in a range of advances Topics include nutritional quality yield disease and insect resistance processing plant growth and development and other aspects The book also examines research yielding significant molecular resources that facilitate breeding linkage and gene mapping cytology functional and structural genomics proteomics and metabolomics Future research developments that are

likely to significantly advance efforts to understand and improve the potato are also explored

**The Potato Genome**  
Swarup Kumar Chakrabarti, Conghua Xie, Jagesh Kumar Tiwari, 2017-12-26 This book describes the historical importance of potato *Solanum tuberosum* L potato genetic resources and stocks including *S. tuberosum* group Phureja DM1 3 516 R44 a unique doubled monoploid homozygous line used for potato genome sequencing It also discusses strategies and tools for high throughput sequencing sequence assembly annotation analysis repetitive sequences and genotyping by sequencing approaches Potato *Solanum tuberosum* L 2n 4x 48 is the fourth most important food crop of the world after rice wheat and maize and holds great potential to ensure both food and nutritional security It is an autotetraploid crop with complex genetics acute inbreeding depression and a highly heterozygous nature Further the book examines the recent discovery of whole genome sequencing of a few wild potato species genomes genomics in management and genetic enhancement of *Solanum* species new strategies towards durable potato late blight resistance structural analysis of resistance genes genomics resources for abiotic stress management as well as somatic cell genetics and modern approaches in true potato seed technology The complete genome sequence provides a better understanding of potato biology underpinning evolutionary process genetics breeding and molecular efforts to improve various important traits involved in potato growth and development

**Approaches for Potato Crop Improvement and Stress Management**  
S. M. Paul Khurana, John E. Bradshaw, Vinay Bhardwaj, 2024-08-07 This edited book provides an all inclusive coverage of latest research in crop improvement and stress management in potato crop It is composed of 17 chapters covering breeding diseases pest management with the view to enhancing the total production and quality under the scenario of climate change The book also explores harvesting storage post harvest management and processing of potato The book has special focus on the use of high throughput next generation sequencing NGS techniques modern genomics tools genome editing techniques such as CRISPR systems that could help the potato breeding programs and also in development of biotic and abiotic stress resistant varieties Potato is the world s third most important food crop after wheat and rice in terms of human consumption It is the staple crop providing maximum nutrients per unit area time and money and is the most versatile crop with the highest industrial production potential in India being the second largest potato producing country after China As a major food crop the potato has the most important role to play in the United Nations Sustainable Development Goals 2030 Agenda for zero hunger achieving food security improved nutrition and promote sustainable agriculture This book is unique in its approach for providing in depth knowledge enabling readers to learn the subject fully on different strategies new perspectives and fully understanding different topics of diversity interaction and improvement for stress management in potato It is a relevant reading material for researchers students practitioners and other stakeholders involved in improvement of potato crop

*Genetic Resources, Chromosome Engineering, and Crop Improvement*  
Ram J. Singh, 2006-11-07 Summarizing landmark research Volume 3 of this essential series furnishes information on the availability of germplasm resources that breeders can

exploit for producing high yielding vegetable crop varieties Written by leading international experts this volume offers the most comprehensive and up to date information on employing genetic resource **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

**Potato virus Y: biodiversity, pathogenicity, epidemiology and management** Christophe Lacomme, Laurent Glais, Dirk U. Bellstedt, Brice Dupuis, Alexander V. Karasev, Emmanuel Jacquot, 2017-08-10 Potato virus Y PVY infects a wide host range mainly within the Solanaceae and is distributed worldwide PVY is transmitted by more than 40 aphid species in a non persistent manner Isolates of the PVY species are highly variable at biological serological and molecular levels Epidemiological studies have highlighted the emergence of distinct potato PVY variants able to induce necroses on potato tubers Due to the lack of efficient resistance to PVY isolates inducing necrotic symptoms in cultivated varieties and the plant to plant transmission of isolates through the daughter tubers PVY has become the most economically important virus for the potato industry The review offers an overview of several decades of research on PVY but also focuses on the latest data obtained by expert on PVY worldwide on the biological characteristics of PVY interactions between aphids hosts its evolution and management Identified knowledge gaps to understand further PVY biology will be discussed *Genetic Improvement of Solanaceous Crops, Volume 1* M K Razdan, 2005-01-06 Potato is the most significant non cereal crop Much attention has been paid to this commercially important crop The aim of this volume is to capture the recent advances made in improving potatoes using traditional breeding methods as well as genetic engineering technology The book provides a critical appraisal of the state of the art finding on *Handbook of Potato Production, Improvement, and Postharvest Management* Jai Gopal, S.M. Khurana, 2006-08-11 Potatoes are a crucial food crop around the world grown in nearly 150 countries The

Handbook of Potato Production Improvement and Postharvest Management compiles everything you need to know about potato crop production in one well organized reference. Leading international authorities clearly discuss the biology, genetics, breeding, diseases, and effective approaches for improvement of crop and handling after harvest. This one of a kind text explores from interdisciplinary perspectives every aspect of potato crop management from seed germination to end use while presenting the most current research available. *Potato diversity at height* de Haan, S., 2009. ELISA tests were conducted for APMoV, PLRV, PMTV, PVY and PVX. Principles of Plant Genetics and Breeding George Acquaah, 2012-08-16. To respond to the increasing need to feed the world's population as well as an ever greater demand for a balanced and healthy diet, there is a continuing need to produce improved new cultivars or varieties of plants, particularly crop plants. The strategies used to produce these are increasingly based on our knowledge of relevant science, particularly genetics, but involves a multidisciplinary understanding that optimizes the approaches taken. *Principles of Plant Genetics and Breeding* 2nd Edition introduces both classical and molecular tools for plant breeding. Topics such as biotechnology in plant breeding, intellectual property, risks, emerging concepts, decentralized breeding, organic breeding, and more are addressed in the new updated edition of this text. Industry highlight boxes are included throughout the text to contextualize the information given through the professional experiences of plant breeders. The final chapters provide a useful reference on breeding the largest and most common crops. Up to date edition of this bestselling book incorporating the most recent technologies in the field. Combines both theory and practice in modern plant breeding. Updated industry highlights help to illustrate the concepts outlined in the text. Self assessment questions at the end of each chapter aid student learning. Accompanying website with artwork from the book available to instructors. *A Bibliography of Plant Genetics*, 1934. **Atlas of Wild Potatoes**, 2002. This atlas describes the ecogeographic distribution of wild potatoes. They occur solely in the Americas from the southwestern United States to central Argentina and Chile. To help the nonspecialist to understand the past and future changes in their classification, we first discuss the habitats, morphology, and taxonomy of wild potatoes. This is followed by a discussion of problems of data and information quality associated with the locality databases that were used for the maps in this atlas. Distribution maps are provided for all species and series at a taxonomic level that groups related species. Finally, statistics on ecogeographic distribution of wild potatoes and analytical maps of species richness and series richness are provided. *The Potato Crop* Hugo Campos, Oscar Ortiz, 2019-12-03. This book is open access under a CC BY 4.0 license. This book provides a fresh, updated, and science based perspective on the current status and prospects of the diverse array of topics related to the potato and was written by distinguished scientists with hands on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being the only vegetatively propagated species among the world's main five staple crops, creates both issues and opportunities for the potato. On the one hand, this constrains the speed of its geographic expansion and its options for international commercialization and distribution when compared

with commodity crops such as maize wheat or rice On the other it provides an effective insulation against speculation and unforeseen spikes in commodity prices since the potato does not represent a good traded on global markets These two factors highlight the underappreciated and underrated role of the potato as a dependable nutrition security crop one that can mitigate turmoil in world food supply and demand and political instability in some developing countries Increasingly the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones This book will appeal to academics and students of crop sciences but also policy makers and other stakeholders involved in the potato and its contribution to humankind s food security

Potato developments in a changing Europe N.U. Haasse,A.J. Haverkort,2023-08-28 This book discusses developments in the potato industry in a rapidly changing Europe The European Union expanded recently with ten additional countries of which many are major potato producing countries The papers in this book reflect societal and commercial changes such as consumer behaviour and marketing aspects in relation to fresh and processed potatoes in western central and eastern Europe Seed trade between western and central Europe is entering a new stage with altered inspection requirements quarantine regulations and variety needs and acceptance Resistance to diseases present in varieties in central and eastern Europe needs to be coupled to consumer and processor acceptance Retailers and processors Europe wide lead the way at the global level to establish labels and certificates to assure food safety and sustainability The technical part of the books treats improving the use of chemical fertilisers and crop protection agents increasingly aided by precision farming techniques Modern molecular breeding techniques for improved resistance and quality are highlighted and their perspectives are shown for breeding programs Europe wide The book concludes with developments in the potato supply chain marketing and research and developments in a representative number of central European countries It shows how each potato industry in transition deals with the socio economic and environmental situation in varying degrees of development to adapt to a changing Europe

The Methodology of Plant Genetic Manipulation: Criteria for Decision Making Alan C. Cassells,Peter Jones,2012-12-06 A range of novel techniques is available to the plant breeder today to complement classical breeding methods The new options are based on the integration of advances in plant cell biology with those in plant molecular biology Plant cell tissue and organ cultures provide efficient systems for transformation for the achievement of wide crosses and for the production of variation through spontaneous and induced mutation while permitting effective isolation of desired genotypes by in vitro selection This book presents a critical appraisal of the methodologies of plant genetic manipulation for advanced undergraduates postgraduates researchers and plant breeders and provides guidance on the choice of breeding options The latter depends on the breeding system of the crop the breeding objective and the tissue culture systems applicable to the target genotype s

**Plant Biotechnology and Plant Genetic Resources for Sustainability and Productivity** Kazuo N. Watanabe,Eija Pehu,1997-07-21 Plant Biotechnology And Plant Genetic Resources which boasts a truly international list of contributors with

a variety of expertise thoroughly explores all the major contemporary concerns It discusses the strategies for the best use of modern biotechnology and precious plant genetic resources to alleviate components associated with global constraints in hunger environment and health This book is a valuable resource for scientists and policy makers as the world faces unprecedented challenges in the sustainability and productivity of the global food and fibre system

**Pulses, Sugar and Tuber Crops** Chittaranjan Kole,2007-01-20 Pulses Sugar and Tuber Crops comprises reviews contributed by 47 eminent scientists from 10 countries The chapters on common bean pea cowpea sugarcane and potato include comprehensive reviews of voluminous research findings Fundamental aspects and molecular results are also presented for eight orphan crops of high agro-economic importance including mungbean lentil chickpea lathyrus pigeonpea sweet potato cassava and yam works on quinoa and Bambara groundnut are reviewed for the first time



## Decoding **Potato Genetics**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Potato Genetics**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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