



Imputation Performance in Latin American Populations: Improving Rare Variants Representation With the Inclusion of Native American Genomes

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*Correspondence:

Andres Moreno-Estrada andres moreno-Bonnestav mir Louroles Garcia-Garcia parcigam/Aligmat.com

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Andrés Jiménez-Kaufmann¹, Amanda Y. Chong², Adrián Cortés²,
Consuelo D. Quinto-Cortés², Selene L. Fernandez-Valverde², Leticia Ferreyra-Reyes²,
Luis Pablio Cruz-Hervert², Santiago G. Medina-Muñoz², Mashaal Sohail^{1,4},
Maria J. Palma-Martinez², Gudalupe Delgado-Sánchez², Norma Mongua-Rodríguez²,
Alexander J. Mentzer², Adrian V. S. Hill^{2,5}, Hortensia Moreno-Macias^{3,7},
Alicia Huerta-Chagoya³, Carlos A. Aguilar-Salinas^{3,8}, Michael Torres³, Hie Lim Kim^{10,11,12},
Namrata Kalsi^{10,12}, Stephan C. Schuster^{10,11,12}, Teresa Tusié-Luna^{4,13},
Diego Ortega Del-Vecchyo^{3,4}, Lourdes García-García^{3,5} and Andrés Moreno-Estrada^{1,5}

"Laboratorio Nacional de Genómica para la Biodiversidad (UGA-LANGEBIO), Unidad de Genómica Asiantasta, Inquisto, Mexico,
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Molecular y Medicina Genómica, Instituto Nacional de Cierrolas Médicas y Nutrición Salvador Zubria (INSCI), Mexico City,
Mexico, "Departmento de Economia, Universidad Autónoma Metropolitana, Mexico City, Mexico, "Departmento de
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de Investigación sobre el Genoma Humano (LIDA), CIAMA, Jurguita, Mexico

Current Genome-Wide Association Studies (GWAS) rely on genotype imputation to increase statistical power, improve fine-mapping of association signals, and facilitate meta-analyses. Due to the complex demographic history of Latin America and the lack of balanced representation of Native American genomes in current imputation panels, the discovery of locally relevant disease variants is likely to be missed, limiting the scope and impact of biomedical research in these populations. Therefore, the necessity of better diversity representation in genomic databases is a scientific imperative. Here, we expand the 1,000 Genomes reference panel (1KGP) with 134 Native American genomes (1KGP + NAT) to assess imputation performance in Latin American individuals of mixed ancestry. Our panel increased the number of SNPs above the GWAS quality threshold, thus improving statistical power for association studies in the region. It also increased imputation accuracy, particularly in low-frequency variants segregating in Native American ancestry tracts. The improvement is subtle but consistent across countries and proportional to the number of genomes added from local source populations. To project the potential improvement with a higher number of reference genomes, we performed simulations and found that at least 3,000 Native American genomes are

South American Variant

S. Gibbon, R. Santos

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Emerging Viruses in Latin America Flor H. Pujol, Alberto E. Paniz-Mondolfi, 2024-11-09 Latin America has extensive microbial diversity and is endemic for a wide array of infectious agents including dengue chikungunya malaria and tuberculosis In 2014 the WHO cited 93 public health events of potential international concern in the Latin American region where over half 47 events were caused specifically by chikungunya and other zoonotic pathogens causing geographically widespread impact affecting 27 countries and territories Arena alpha and flaviviruses are RNA viruses many of which are endemic in South America are diverse in nature and can adapt easily to new hosts creating zoonotic threats Since more than 70% of emerging diseases are caused by zoonotic agents it is of great importance to enhance the capacity for detection and diagnosis in the areas where they are most likely to emerge COVID 19 provided an opportunity to reinforce public health capacities improve reporting transparency and enhance regional coordination Limited but consistent research has been carried out in the region to address the viral threats that account for a significant portion of health concerns This book describes relevant examples of these achievements and discusses ongoing limitations in the region **South America Into** The 1990s G. Pope Atkins, 2019-07-09 This book undertakes a multifaceted examination of South American international relations emphasising on the continent's new era of domestic and international politics and the implications of the evolving environment for the policies of the many actors participating in the region s politics Racial Identities, Genetic Ancestry, and Health in South America S. Gibbon, R. Santos, 2011-11-15 The edited collection brings together social and biological anthropology scholars biologists and geneticists to examine the interface between Genetic Admixture Identity and Health directly contributing to an emerging field of bio cultural anthropology Annual Progress Report - U. S. Army Medical Research Institute of Infectious Diseases U.S. Army Medical Research Institute of Infectious Diseases, 1976 Dictionary of English Pronunciation with American Variants (in Phonetic Transcription) Harold E. Palmer, James Victor Martin, Francis George Blandford, 1926 Equine Infectious Diseases Debra C. Sellon, Maureen T. Long, 2007 Accompanying CD ROM contains easy access to an extensive list of references and links to the original abstract and related articles through PubMed Page 4 of cover Brazilian Folktales Livia Maria M. de Almeida, Ana Maria Portella, Margaret Read MacDonald, 2006-03-31 A rich brew of more than 40 traditional Brazilian tales from creation stories and stories of enchantment to animal and trickster tales draws on the varied cultural traditions of indigenous peoples people of African descent those of European and particularly Portuguese descent and mixtures of these groups The stories are retold by today s accomplished Brazilian storytellers Also includes background information on the country and the tales color photographs traditional recipes and children's games Brazil the largest country in South America covers a vast terrain that ranges from the tropical rain forests of the Amazon basin and upland farms to towering mountains and sandy beaches from highly populated urban centers to virtually inaccessible interior jungle regions Its population is composed of indigenous peoples e q

Tupy Kaxinawa Taulipang people of African descent those of European mostly Portuguese descent and mixtures of these groups Drawing on the varied cultural traditions and ethnic diversity of the country this collection offers readers a rich brew of traditional Brazilian tales from creation stories and stories of enchantment to animal and trickster tales More than 40 stories are included along with background information color photographs recipes and games There are very few collections of Brazilian folktales currently available in English and none with this depth and range This is a wonderful treasury for storytellers folklorists and educators Also a great resource for educators planning units on the Amazon rain forest All grade The Living Age ,1923 Littell's Living Age ,1923 *Proceedings of the Academy of Natural Sciences of* levels Philadelphia Academy of Natural Sciences of Philadelphia, 1916 Publications of the Academy of Natural Sciences of Philadelphia v 53 1901 p 788 794 Textual Liberation (Routledge Revivals) Helena Forsas-Scott, 2014-11-13 Feminist writing has emerged in recent years as a major influence of twentieth century European literature Textual Liberation first published in 1991 provides a timely and wide ranging survey of twentieth century feminist writing in Europe presenting texts from a number of countries and highlighting some of the transnational parallels and contrasts The contributors emphasize the wider contexts political social economic in which the texts were produced They cover feminist literature in Britain Scandinavia Germany Eastern Europe Russia France Spain Italy and Turkey and consider a range of genres including the novel poetry drama essays and journalism Each chapter contains an extensive bibliography with special emphasis on material available in English A stimulating introduction to the development of European feminist writing Textual Liberation will be an invaluable resource for students of women s literature women s studies and feminism The South American Variant Сергей Залыгин, 1979 Mysterious Creatures George M. Eberhart, 2002-12-17 A comprehensive guide to cryptozoology the quest to identify animals that have not been officially catalogued by science and to place these unknown animals into their proper zoological categories In this fascinating two volume encyclopedia author George M Eberhart provides a comprehensive catalog of nearly 1 000 cryptids unknown animals usually reported through eyewitness accounts and not yet described by science Cryptids are the stuff of folklore hoaxes and genuine scientific breakthroughs There are 400 now classified cryptids once considered either extinct or pure fantasy The cryptozoologist s job is to strip away the myth misidentification and mystery and separate fact from fiction Mysterious Creatures covers everything from dinosaurs and the emala ntouka an elephant killing dinosaur like animal of central Africa to searches for the Loch Ness monster Bigfoot and other cryptozoological hoaxes Entries about specific animals include the derivation or meaning of each cryptid s name its scientific name variant names a physical description behavior description of tracks habitat significant sightings present status and possible explanations Illustrations and photographs accompany many entries The book also includes resources and references for further information Virus Diseases: Advances in Research and Treatment: 2011 Edition ,2012-01-09 Virus Diseases Advances in Research and Treatment 2011 Edition is a ScholarlyBrief that delivers timely

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field the chapters present authoritative reviews each one covering a single microbe or toxin with respect to its classification biology epidemiology pathogenesis identification diagnosis treatment and prevention The chapters also discuss the limitations of our current knowledge and challenges relating to improved detection and control of the microbe or toxin

Albumin: Structure, Function and Uses Victor M. Rosenoer, Murray Oratz, Marcus A. Rothschild, 2014-05-18 Albumin Structure Function and Uses reviews the many facets of serum albumin including its history and evolutionary development structure and function synthesis degradation distribution and transport and metabolic behavior. The use misuse and abuse of albumin in the treatment of disease are also discussed. This book is comprised of 17 chapters and begins with a commentary on how albumin is used misused and abused in the treatment of disease such as peptic ulcer and a description of the real indications for its use Concepts in albumin purification are then examined along with the amino acid sequence of serum albumin and some aspects of its structure and conformational properties. Subsequent chapters explore the phylogenetics of albumin albumin binding sites clinical implications of drug albumin interaction genetics of human serum albumin and hepatic synthesis of export proteins Albumin catabolism and intracellular transport are also considered together with surgical and clinical aspects of albumin metabolism. This monograph should be a useful resource for biochemists and clinicians.

Identification of Pathological Conditions in Human Skeletal Remains Donald J. Ortner,2003-01-06 This title provides an integrated and comprehensive treatment of pathological conditions that affect the human skeleton **Annual Progress Report**, 1976

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