# New from Princeton University Press

### The History and Geography of Human Genes

L. Luca Cavalli-Sforza, Paolo Menozzi, and Alberto Piazza

1032 pages. 8 color illus. 233 line illus. 522 maps.  $8\frac{1}{2} \times 11$ . \$ 220.00

L. Luca Cavalli Sforza and his collaborators Paolo Menozzi and Alberto Piazza have devoted fourteen years to one of the most compelling scientific projects of our time. the reconstruction of where human populations originated and the paths by which they

spread throughout the world. In this volume, the culmination of their research, the authors explain their pathbreaking use of genetic data, which they integrate with insights from geography, ecology, archaeology, physical anthropology, and linguistics to create the first fullscale account of human evolution as it occurred across all continents. This interdisciplinary approach enables them to address a wide range of issues that continue to incite debate: the timing of the first appearance of our species, the problem of African origins and the significance of work recently done on mitochondrial DNA and the popular notion of an "African Eve," the controversy pertaining to the peopling of the Americas, and the reason for the

presence of non-Indo-European languages – Basque,

Finnish, and Hungarian - in Europe.

highlights the authors' geography, particularly g geographic maps of gene thetic method of detecting for example the migration n the Middle East toward Jorth Africa.

cplanation of their major icepts, the authors give an of human evolution at the then devoted to evolution nclude analyses of genetic relate to geographic, ecoanthropological, and linnprising a wide range of of new and recent informagenerous supply of visual geographic maps, this book c and a catalizet for further

"The reconstruction of the human family tree – its branching order, its timing, and its geography - may be within our grasp... This research has great importance for the obvious and most joyously legitimate parochial reason – our intense fascination - from Stephen Jay Gould's article in "Natural History" on the research of L. L. Cavalli-Sforza et al.

with ourselves and the details of our history."

highlights the authors' contributions to genetic geography, particularly their technique for making geographic maps of gene frequencies and their synthetic method of detecting ancient - migrations, as for example the migration of Neolithic farmers from the Middle East toward Europe, West Asia, and North Africa.

of the genes, the

scientists are now

able to chart migra-

tions and, in explor-

ing genetic distance,

devise a clock by

which to date evolu-

tionary history: the

longer two popula-

tions are separated,

the greater their

genetic difference should be. This volume

Beginning with an explanation of their major sources - of data and concepts, the authors give an interdisciplinary account of human evolution at the world level. Chapters are then devoted to evolution on single continents and include analyses of genetic data and how these data relate to geographic, ecological, archaeological, anthropological, and linguistic information. Comprising a wide range of viewpoints, a vast store of new and recent information on genetics, and a generous supply of visual The authors reconstruct the history of our evolution the line volume 
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## TWIN RESEARCH

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