

DNA Ancestry

California Cryobank has partnered with Sema4 to provide DNA Ancestry reports on our donors so that you can be better informed about your future child's ancestry - in line with our overall mission to grow and protect healthy families.

Where in the World...?

Your DNA is a small part of who you are, but it can reveal a lot about you and where your ancestors came from. There are small variations in our DNA that are passed down through our families for generations and can be used to trace our ancestries back hundreds or thousands of years. Ancestry testing looks for variations in small regions of our DNA to provide an estimate of our geographical ethnicity. The specific regions of DNA analyzed have been selected because they are known to occur at different frequencies across different geographical populations at different points in history. The results are compared against a genetic database of variants associated with specific ancestries to provide us with our unique mixture of ancestral origins.¹

Our DNA Ancestry report can identify a donor's biological ancestry for the following 26 unique geographic regions and ethnic groups.²

And That's Not All...

DNA Ancestry provides insight into where a donor's ancestors originated, but it doesn't capture the donor's experiences and cultural identity which may have been passed down for generations. For this reason, we continue to collect donors' self-reported ancestries to provide a comprehensive picture on the donor's background.

Some donors' self-reported ancestries may differ or be more specific than one of the 26 groups that can be identified by DNA testing. But having both pieces of information can help create a more detailed picture of your donor to aid in donor selection and provide more details for your children about their own ancestry.

GEOGRAPHICAL REGIONS	
Americas	Northeast Asia
Ashkenazi Jewish	Northeast Europe
Bengal	Northern and Central Europe
Central Africa	Northern Italy
Central Asia	Northern British Isles
Eastern Africa	Oceania
East Asia	Southern Africa
Eastern Mediterranean	Scandinavia
Finland	Southeast Asia
Central Indian subcontinent	Southern Indian subcontinent
Northern Africa	Southwestern Europe
North Central Asia	Anatolia, Caucasus, Iranian Plateau
Middle East	Western Africa

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This report is produced as part of a research effort by Sema4. The information in this report is intended to be used for informational purposes to help describe the genetic ancestry composition of the individual tested and is not intended to be used for medical management purposes.

REFERENCES

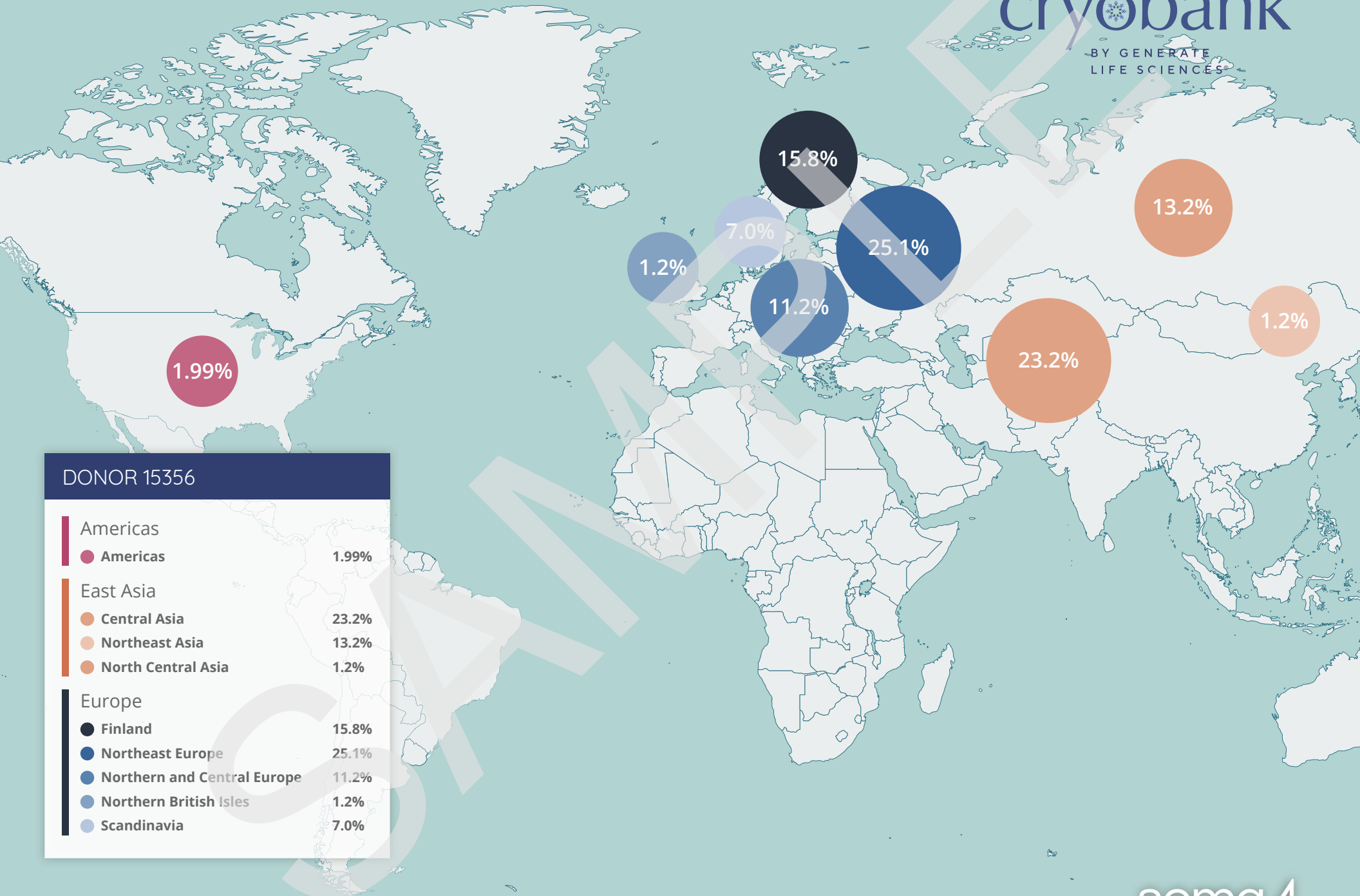
1. National Human Genome Research Institute
<https://www.genome.gov/dna-day/15-ways/human-origins-ancestry>
2. <https://sema4.com/>

26 Geographical Region Descriptions

Now you can identify a donor's biological ancestry and ethnic background in more detail with our new DNA Ancestry report.

Learn more about which countries these 26 geographical regions represent.

<p>AMERICAS</p> <p>USA Canada Greenland Mexico Belize Guatemala El Salvador Honduras Nicaragua Costa Rica Panama Venezuela</p> <p>Colombia Ecuador Peru Brazil Bolivia Guyana Suriname French Guiana Paraguay Chile Argentina Uruguay</p>	<p>CENTRAL ASIA</p> <p>Kazakhstan Kyrgyzstan Uzbekistan Tajikistan Turkmenistan Northeast Iran</p> <p>North Afghanistan Northeast Pakistan Tibet Western China</p> <p>NORTHEAST ASIA</p> <p>Eastern Russia (Siberia) Mongolia</p> <p>Northeast China</p> <p>SOUTHEAST ASIA</p> <p>Myanmar Thailand Cambodia Laos Vietnam Malaysia</p> <p>Phillipines Indonesia Singapore Brunei Taiwan</p> <p>BENGAL</p> <p>Eastern India Bangladesh</p> <p>CENTRAL INDIAN SUBCONTINENT</p> <p>Bhutan Northern India</p> <p>Nepal Pakistan</p> <p>SOUTHERN INDIAN SUBCONTINENT</p> <p>Southern India</p>	<p>CENTRAL AFRICA</p> <p>Democratic Republic of the Congo</p> <p>EASTERN AFRICA</p> <p>Djibouti Eritrea Ethiopia Somalia Sudan South Sudan Uganda Rwanda</p> <p>Burundi Kenya Tanzania Mozambique Malawi Zambia Zimbabwe</p> <p>SOUTHERN AFRICA</p> <p>Botswana Namibia South Africa</p> <p>Angola Zimbabwe Lesotho</p> <p>WESTERN AFRICA</p> <p>Benin Burkina Faso Cape Verde Cote D'Ivoire The Gambia Ghana Guinea Guinea-Bissau Liberia Mali Mauritania Niger Nigeria</p> <p>Senegal Sierra Leone Togo Cameroon Western Chad Central African Republic Equatorial Guinea Gabon Republic of the Congo Northern Angola</p>	<p>OCEANIA</p> <p>Australia Papua New Guinea New Zealand Indonesian New Guinea</p> <p>Melanesia Micronesia Polynesia</p> <p>NORTHERN BRITISH ISLES</p> <p>Northern England Scotland</p> <p>NORTHERN ITALY</p> <p>Northern Italy</p> <p>SCANDINAVIA</p> <p>Denmark Iceland</p> <p>Norway Sweden</p> <p>SOUTHWESTERN EUROPE</p> <p>Spain Portugal Southern France</p> <p>Andorra Sardinia</p>	<p>FINLAND</p> <p>Finland</p> <p>EASTERN MEDITERRANEAN</p> <p>Cyprus Malta Greece Albania Bosnia and Herzegovina Bulgaria Croatia Slovenia</p> <p>North Macedonia Serbia Kosovo Montenegro Romania Moldova Ukraine Western Turkey</p> <p>NORTHEAST EUROPE</p> <p>Western Russia Estonia Latvia Lithuania</p> <p>Poland Belarus Ukraine Moldova</p> <p>NORTHERN AND CENTRAL EUROPE</p> <p>England Ireland Northern Ireland Northern France Belgium Luxembourg The Netherlands</p> <p>Denmark Germany Switzerland Austria Czechia Poland Slovakia Hungary</p>	<p>ANATOLIA, CAUCASUS, IRANIAN PLATEAU</p> <p>Turkey Armenia Azerbaijan Georgia</p> <p>Eastern Turkey Eastern Iraq Eastern Syria</p> <p>MIDDLE EAST</p> <p>Jordan Palestine Saudi Arabia Yemen Oman Bahrain Israel</p> <p>Qatar UAE Kuwait Western Iraq Southern Syria Lebanon</p> <p>NORTHERN AFRICA</p> <p>Morocco Algeria Tunisia</p> <p>Libya Egypt</p> <p>ASHKENAZI JEWISH</p> <p>Poland Germany Ukraine Lithuania</p> <p>Belarus Russia France</p>
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DONOR 15356

Americas

● Americas 1.99%

East Asia

● Central Asia 23.2%

● Northeast Asia 13.2%

● North Central Asia 1.2%

Europe

● Finland 15.8%

● Northeast Europe 25.1%

● Northern and Central Europe 11.2%

● Northern British Isles 1.2%

● Scandinavia 7.0%