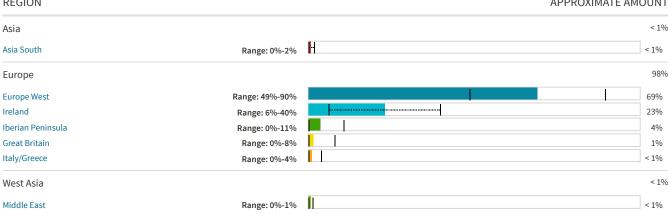
Ethnicity estimate for Kellie King





Great Britain

Primarily located in: England, Scotland, Wales

Also found in: Ireland, France, Germany, Denmark, Belgium, Netherlands, Switzerland, Austria, Italy

The history of Great Britain is often told in terms of the invasions with different groups of invaders displacing the native population. The Romans, Anglo-Saxon, Vikings and Normans have all left their mark on Great Britain both politically and culturally. However, the story of Great Britain is far more complex than the traditional view of invaders displacing existing populations. In fact modern studies of British people tend to suggest the earliest populations continued to exist and adapt and absorb the new arrivals.

How Kellie King compares to the typical person native to the Great Britain region

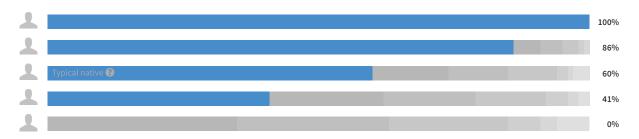


Genetic Diversity in the Great Britain Region

The people living in the Great Britain region today are more admixed than most other regions, which means that when creating genetic ethnicity estimates for people native to this area, we often see similarities to DNA profiles from other nearby regions. We've found that approximately 60% of the typical native's DNA comes from this region.

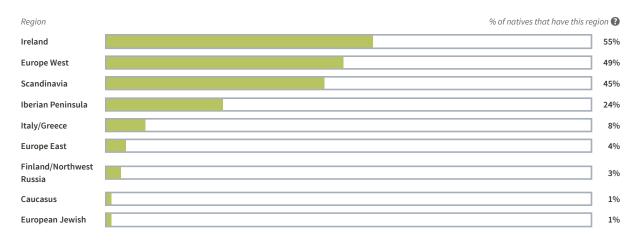
Examples of people native to the Great Britain region

From a collection of 195 people 3



Other regions commonly seen in people native to the Great Britain region

From a collection of 195 people



We have used our reference panel to build a genetic profile for Great Britain. The blue chart above shows examples of ethnicity estimates for people native to this region. For Great Britain we see an extremely wide range—most natives have between 41% and 100% of their DNA showing similarity to this region. It's also possible, however, to find people whose DNA shows very little similarity. Since approximately 60% of the typical native's DNA comes from this region, 40% is more similar to other regions, such as Ireland, Europe West, Scandinavia and the Iberian Peninsula (see chart above, in green).

Population History

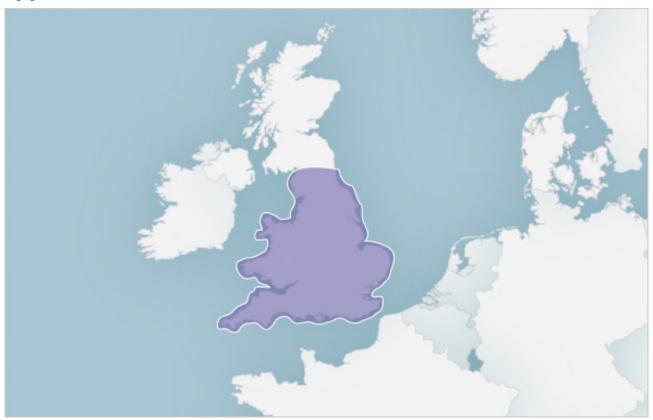
Prehistoric Britain

At the end of the Last Glacial Maximum, 12,000 years ago, the sea levels around northern Europe were low enough for Stone Age hunter-gatherers to cross, on foot, into what are now the islands of Great Britain. Farming spread to the islands by about 4000 B.C., and the Neolithic inhabitants erected their remarkable and puzzling stone monuments, including the famed Stonehenge.

Beginning in about 2500 B.C., successive waves of tribes settled in the region. These tribes are often termed 'Celts', however that term is an 18th century invention. The Celts were not a nation in any sense, but a widespread group of tribes that shared a common cultural and linguistic background. Originating in central Europe, they spread to dominate most of western Europe, the British Isles and the Iberian Peninsula. They even settled as far away as Anatolia, in modern-day Turkey. Their dominance could not withstand the rise of the Roman Empire, however.

After defeating the Celts of Gaul (modern-day France, Luxembourg, Belgium and western areas of Germany and Switzerland), the Romans invaded the British Isles in 43 A.D.

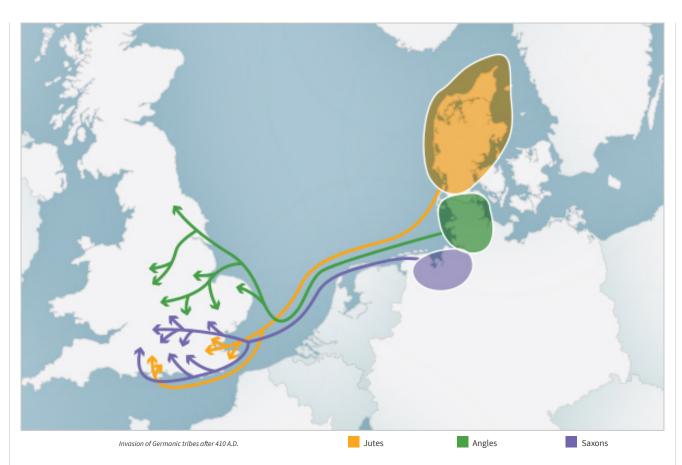
Most of southern Britain was conquered and occupied over the course of a few decades and became the Roman province of Britannia. Hadrian's Wall, in the north of England, marked the approximate extent of Roman control. Those tribes who were not assimilated into the Roman Empire were forced to retreat to other areas that remained Celtic, such as Wales, Ireland, Scotland, the Isle of Man and Brittany. The Roman presence largely wiped out most traces of pre-existing culture in England—even replacing the language with Latin.



The extent of Roman "Britannia" shortly before the Roman withdrawal

Germanic tribes invade

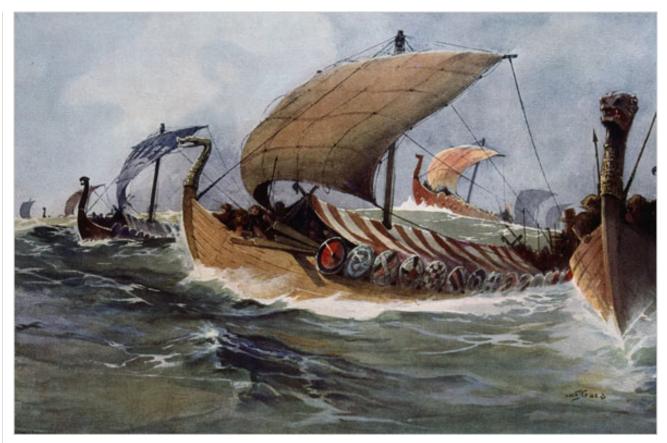
With the decline of its Western Empire, Rome largely withdrew from Britannia in 410 A.D. As the Romans left, tribes from northern Germany and Denmark seized the opportunity to step in. The Germanic Angles and Saxons soon controlled much of the territory that had been under Roman rule, while the Jutes from Denmark occupied some smaller areas in the south. The new settlers imposed their language and customs on the local inhabitants in much the same way that the Romans had. The Germanic language spoken by the Angles would eventually develop into English.



The region was divided into several kingdoms, with the more powerful kings sometimes exerting influence or control over smaller bordering kingdoms. There was nothing like a single, unified English kingdom, however, until the early 10th century and the rise of the House of Wessex.

Viking invasions and the Danelaw

During the 8th century, seafaring Scandinavian adventurers began raiding coastal areas in Europe. Known as the Vikings, they were not just warriors and pillagers. They also established numerous trade ports and settlements throughout the Western world, including the British Isles, Russia, Iceland and the Iberian Peninsula. A group of Vikings that settled in northern France became known as the Normans and, by the early 11th century, ruled a great and powerful region, sanctioned by the French crown.



Viking longships

Danish Vikings began to invade northern and eastern England in 876 and eventually came to control a third of the country, defeating several smaller Anglo-Saxon kingdoms. The rulers of the Danelaw, as the Viking area became known, struggled for nearly 80 years with the remaining English kings over the region. The balance of power swung back and forth a number of times, with an English king, Edward the Elder, gaining the upper hand in the early 900s and a Danish king, Cnut the Great, ruling England, Norway and Denmark from 1016 to 1035. After the deaths of Cnut's sons, the throne returned to Anglo-Saxon control, but it was short-lived, as Edward the Confessor died without an heir. The Normans of France, led by William the Conqueror, sailed across the English Channel and claimed the throne of England, defeating the only other rival, Harold Godwinson, at the Battle of Hastings in 1066. In 1067, William extended his control to Scotland and Wales.



The Danelaw in 878 A.D.



The Battle of Hastings

The Houses of Plantagenet & Tudor

The Norman kings, ruling primarily from France, gave rise to the House of Plantagenet, a line of kings that began to consolidate and modernize the kingdom of England. Beginning in 1277, Edward I put down a revolt in Wales and led a full-scale invasion, bringing Wales under control of the English crown. He then seized political control of Scotland during a succession dispute, leading to a rebellion there. Edward's campaign against the Scots wasn't entirely successful and remained unresolved at his death. By decisively defeating Edward's son at Bannockburn in 1314, the Scots assured their independence. The House of Plantagenet continued to reign until the 15th century. Towards the latter half of the 15th century the houses of York and the Lancaster, the most powerful Plantagenet branches fought a series of wars for control of the throne. Those wars ended with the Battle of Bosworth Field on the 22nd August 1486. At Bosworth Field Henry Tudor defeated Richard III. Henry took the throne as Henry VII and ushered in the reign of House Tudor. The reign of the Tudors lasted from Henry VII through to Elizabeth I in 1603.

The British Empire

After the defeat of the Spanish Armada in 1588, England established itself as a major naval power. As European nations began founding colonies around the world, England was well positioned to compete for control of the largely untapped resources of the New World. Religious and political upheavals in England in the 17th and 18th centuries played critical roles in establishing and defining early American history, as dissidents left England seeking religious freedom. Subsequent emigrations from England to the Americas ensured a primarily English-derived culture and social structure.



English ships and the Spanish Armada, 1588

During the 1760's and 1770's the relationship between the colonies in the Americas and Britain grew fractious due to the British Parliament's attempts to tax colonists without representation in Parliament. This led to the American War of Independence with and the Thirteen Colonies gaining independence and forming a new nation, the United States of America.

The loss of the Thirteen Colonies is seen as the transition point in the British Empire from the First British Empire to the Second British Empire. In the Americas, Britain shifted its attention north to Canada where many of the defeated loyalists from the revolution had migrated to. And to make up for lost wealth in America, Britain now paid greater attention to Asia, the Pacific and later Africa. In the 1770's, James Cook travelled along Eastern Australia and New Zealand claiming them for Great Britain. Shortly after Britain set up penal colonies in Australia transporting large number of convicts to Australia. Over 80 years over 165,000 convicts were sent to Australia. In Asia, through the East India Company the British Empire gained more control throughout the continent. Throughout the early 19th Century the East India Company gained control over Java, Singapore, Hong Kong and India. The Government of India Act in 1858 established the British Raj, with Queen Victoria as Empress of India. India became one of the British Empire's most important colonies. By the end of the 19th Century it was said that the sun never set on the British Empire, since it stretched around the world.

Did You Know?

At lunchtime on the 28th February 1953 an American and British scientist, James Watson and Francis Crick, walked into the Eagle pub in Cambridge and announced that they had "discovered the secret of life". What Watson and Crick had discovered was the famous double helix structure of DNA. Crucial to their discovery was the work of another British scientist, Rosalind Franklin, whose X-Ray photographs of DNA gave vital clues to its structure.

Asia South

Primarily located in: India, Pakistan, Nepal, Bhutan, Bangladesh, Sri Lanka

Also found in: Myanmar (Burma)

The Asia South region includes the modern-day nations of Pakistan, India, Nepal, Bangladesh, Sri Lanka and Bhutan and is home to approximately 20% of the world's population. The mighty mountain ranges of the Himalaya, Hindu Kush and Karakoram were formed here around 75 million years ago when the floating Indian tectonic plate smashed into southern Asia, giving birth to the world's tallest mountains peaks. These include Mount Everest, known to the Nepalese as "Sagarmatha."

How Kellie King compares to the typical person native to the Asia South region

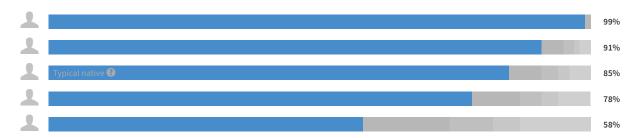


Genetic Diversity in the Asia South Region

Like most of our identified regions, the Asia South region is admixed, which means that when creating ethnicity estimates for people native to this region, we frequently see similarities to DNA profiles from other nearby regions. The typical person born in this region today has about 85% of his or her DNA from this region.

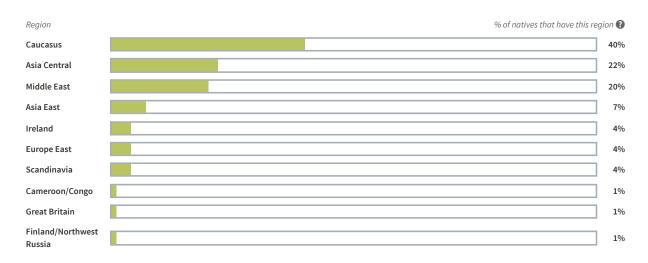
Examples of people native to the Asia South region

From a collection of 161 people 😯



Other regions commonly seen in people native to the Asia South region

From a collection of 161 people



We have used our reference panel to build a genetic profile for the Asia South region. The blue chart above shows examples of ethnicity estimates for people native to the region. For most natives, between 78% and 99% of their DNA looks similar to our profile. However, it's also possible to find people with only 58% of their DNA that looks similar to the profile. For people with DNA from other regions, the most common is the neighboring Caucasus region. About 40% of people from Asia South have at least some DNA from the Caucasus region. (See the green chart above.)

Population History

Secluded by the Himalayas and the Indian Ocean, Southern Asia has largely been a region unto itself. But the very first migration of modern humans, called "Out of Africa," is thought to have followed a southern coastal route. Those migrants would have trekked along the outline of the Indian subcontinent and then farther east into Southeast Asia, eventually reaching Australia. The indigenous people of the Andaman Islands in the Indian Ocean are thought to have been isolated there during this initial migration, after ocean levels rose. Austroasiatic populations are believed to have moved south from China, eventually spreading west into India and also using water routes to other agricultural zones, including the islands of the South Pacific.



Out of Africa route

The invention of farming in the Middle East led to the spread of Neolithic people into Pakistan and northern India. About 7000 B.C., Indo-European farmers arrived, bringing wheat, cattle and a distinct language. Even today, there is a gradient of ancestry from the Middle East that ranges from the highest concentrations in the north to the lowest in the south of India. These Neolithic people founded the great Indus Valley Civilization.

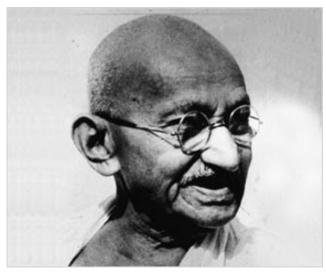
India

Isolated by nearly impenetrable mountains to the north, India cultivated its own unique culture over the millennia. Almost as old as Indian civilization itself, the caste system of social hierarchy determined a person's status and rights from birth. The caste system was officially outlawed in 1950, and great strides have been made in purging it from contemporary Indian society.



A 1922 stereograph of Hindu children of the high caste in Bombay, India

Hinduism and Buddhism, the world's third- and fourth-largest religions, were both born in India. Exported to Asia, Buddhism was an important part of the cultural fabric of Imperial China and is the predominant religion in most of Southeast Asia today. India was gradually conquered by the British East India Company in the 18th and 19th centuries, and it was a British colony until 1947. Mohandas Gandhi became one of the key players in achieving Indian independence. Realizing that armed resistance against the British was dangerous and probably futile, he began a campaign of nonviolent civil disobedience and protest that helped end British colonial rule.



Mohandas Gandhi

Nepal

Modern-day Nepal is a mixture of ethnic groups that lived in several different historical kingdoms. The Sherpas, famous for their mountaineering skills, come from Nepal.

Nepal's fierce Gurkha soldiers resisted encroachments of the British East India Company, earning the grudging respect of the British. The conflicts led to the Anglo-Nepalese
War (1814-16), which ended in a treaty that preserved Nepal's sovereignty (although it was forced to cede some territory). In 1951, the Nepali monarch ended the century-old
system of rule by hereditary premiers and instituted a cabinet system of government. In 1953 Tenzig Norgay, a Sherpa, joined Sir Edmund Hillary as they became the first
people to successfully summit Mt. Everest. Nepal's legendary city of Kathmandu is today a large metropolis with a rich history stretching back over 2,000 years.



A Gurkha commander during the Anglo-Nepalese War

Bhutan

The Kingdom of Bhutan is a landlocked Himalayan country bordered by India and China. Three main ethnic groups make up the majority of the population. The Ngalops are of Tibetan origin and thought to have migrated to Bhutan in the 8th or 9th century A.D., bringing both Buddhism and Tibetan culture. The Sharchops are considered the indigenous people of Bhutan, descendants of early settlers who migrated from the east centuries before the Ngalops. The Lhotsampas emigrated from Nepal in the 19th and 20th centuries. The Bhutanese call their country Druk Yul, "land of the thunder dragon."



Haa Valley, Bhutan, Douglas J. McLaughlin, 2006

Pakistan

Ruled at various times by Persians, Greeks, Arabs and Turks, Pakistan is home to a diverse mix of cultures and ethnic groups. The Arab Empire called it "the Gate of Islam," and the country remains primarily Muslim to this day. The Balochi, descended from the Persians who settled the area centuries ago, live in the southern half of Pakistan and along the coast. The Brahui, a Sunni Muslim tribe living in the same region, speak a Dravidian language related to languages found in the distant southern reaches of India, leaving historians to wonder how they got there. The Pashtun are a tribal society in the rugged border between Pakistan and Afghanistan, and the Burusho, or Hunza, live in the foothills of the Hindu Kush and speak a unique language unrelated to any other. Legend says that they are descended from the soldiers of Alexander the Great, but scientific evidence shows that they are genetically linked to the European Romani, also known as "Gypsies."



When India gained independence from Great Britain, the religious and ethnic differences between Hindu India and Muslim Pakistan led to the region being partitioned into India, East Pakistan and West Pakistan. This division led to one of the largest single migrations in history, as 14 million people tried to cross borders according to their religious ties. Millions followed the Grand Trunk Road and Railway in the Kashmir region, and hundreds of thousands were killed in the violence that engulfed the area. Sectarian violence has subsided for the most part, but there are still tense border disagreements between India and Pakistan, particularly over the Kashmir region in the Karakoram foothills. After years of border disputes and war, East Pakistan seceded and became Bangladesh in 1971.

Sri Lanka

Sri Lanka is an island nation divided into two groups: the majority Buddhist Sinhalese in the south and the minority Hindu Tamils in the north. The first Sinhalese arrived in Sri Lanka late in the 6th century B.C., probably from northern India. Buddhism was introduced in the 3rd century B.C., and a great civilization developed at the cities of Anuradhapura (from about 200 B.C. to 1000 A.D.) and Polonnaruwa (from about 1070 to 1200). In the 14th century, a South Indian dynasty established a Tamil kingdom in northern Sri Lanka. The coastal areas of the island were controlled by the Portuguese in the 16th century, then by the Dutch in the 17th century. The island was ceded to the British in 1796, became a Crown Colony in 1802, and was formally united under British rule by 1815. As Ceylon, it became independent in 1948; its name was changed to Sri Lanka in 1972.



A modern Sri Lankan woman with her baby

Migrations from this region

A significant wave of migration out of India began during the early 19th century and continued until the end of the British Raj. Britain abolished slavery in 1833 and was soon followed by other colonial powers such as France, the Netherlands and Portugal—but then their colonies needed manpower to work the sugar and rubber plantations once worked by African slaves. To meet this demand, the British established the system of "Indentured Labor Migration" from the Indian subcontinent. Britain first began exporting bonded Indian labor in 1834, to Mauritius. The Dutch and French, following the British system, also exported Indian workers to their colonies. In less than 10 years, the migration burgeoned into a mass movement to provide cheap labor to British and other European colonies.

Conditions of absolute poverty in many parts of India, coupled with the prospect of earning wealth overseas, motivated people to sell themselves as bonded laborers. Workers for plantations in Mauritius, Suriname, Trinidad and Fiji were mainly recruited from the present-day states of Bihar and Uttar Pradesh. In Guyana and East Africa, laborers originated primarily from Punjab and Gujarat. Given the proximity of Tamil Nadu to French possessions in India like Pondicherry, the workers in most French colonies—such as Guadeloupe, Martinique, and La Reunion—were Tamils and almost all male.



Newly arrived indentured Indians in Trinidad and Tobago

The Indentured Labor Migration system lasted until 1916 when, in response to severe criticism, Britain abolished it. By that time, more than 1.5 million Indians had been shipped to colonies in the Caribbean, Africa and Asia. During roughly the same period, another form of labor migration was taking place. The owners of tea, coffee and rubber plantations in Sri Lanka, Malaysia and Burma used local Indian leaders to recruit entire families, mostly from what is today the Indian state of Tamil Nadu, and ship them to plantations. About 5 million Indians, mostly impoverished Tamils, immigrated to these three countries. This outflow continued until just before World War II.

Did You Know?

The Kingdom of Bhutan is a conservative, Buddhist country. Its first paved road wasn't completed until 1962, and Bhutan was closed to foreigners until 1974.

Ireland

Primarily located in: Ireland, Wales, Scotland

Also found in: France, England

Ireland is located in the eastern part of the North Atlantic Ocean, directly west of Great Britain. A variety of internal and external influences have shaped Ireland as we know it today. Ireland's modern cultural remains deeply rooted in the Celtic culture that spread across much of Central Europe and into the British Isles. Along with Wales, Scotland, and a handful of other isolated communities within the British Isles, Ireland remains one of the last holdouts of the ancient Celtic languages that were once spoken throughout much of Western Europe. And though closely tied to Great Britain, both geographically and historically, the Irish have fiercely maintained their unique character through the centuries.

How Kellie King compares to the typical person native to the Ireland region



Genetic Diversity in the Ireland Region

People living in the Ireland region today have a slightly admixed genetic structure, which means that when creating genetic ethnicity estimates for people native to this area, we see some similarities to DNA profiles from other nearby regions. We've found that approximately 95% of a typical Irish native's DNA comes from the region of Ireland.

Examples of people native to the Ireland region

From a collection of 154 people 3



Other regions commonly seen in people native to the Ireland region

From a collection of 154 people



We've used our reference panel to build a genetic profile for Ireland. The blue chart above shows examples of ethnicity estimates for people native to the Ireland region. Most Irish natives have between 76% and 100% of their DNA showing similarity to this profile. It's also possible, however, to find people whose DNA shows very little similarity. Since approximately 95% of the typical native's DNA comes from this region, only 5% is more similar to that of other regions such as Great Britain, Europe West, or Scandinavia (see green chart above).

Population History

Prehistoric Ireland & Scotland

After the Ice Age glaciers retreated from Northern Europe more than 9,000 years ago, hunter-gatherers spread north into what is now Great Britain and Ireland, during the Middle Stone Age. Some 3,000 years later, during the New Stone Age, the first farming communities appeared in Ireland. The Bronze Age began 4,500 years ago and brought with it new skills linked to metalworking and pottery. During the late Bronze Age, Iron was discovered in mainland Europe and a new cultural phenomenon began to evolve.

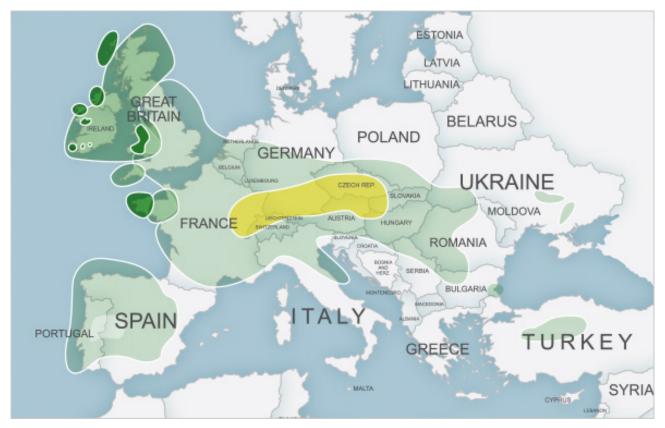
Around 500 B.C., the Bronze Age gave way to an early Iron Age culture that spread across all of Western Europe, including the British Isles. These new people originated in central Europe, near what is Austria today. They were divided into many different tribes, but were collectively known as the Celts.

The Celts

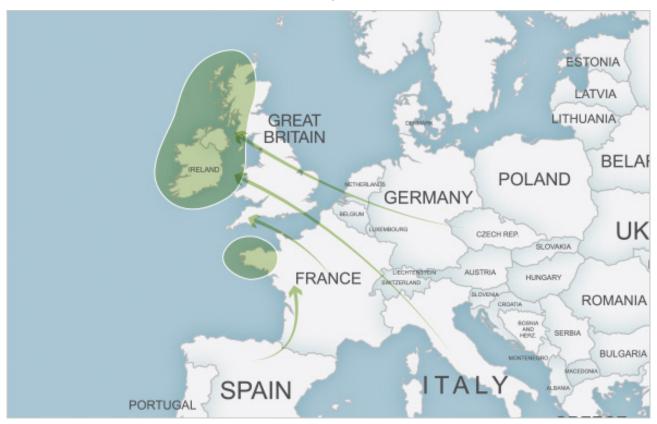
From around 400 B.C. to 275 B.C., various tribes expanded to the Iberian Peninsula, France, England, Scotland and Ireland—even as far east as Turkey. Today we refer to these tribes as 'Celtic' though that is a modern term which only came into use in the 18th century. As the Roman Empire expanded beyond the Italian peninsula, it began to come into increasing contact with the Celts of France, whom the Romans called "Gauls."



A Tribe of Gauls on an Expedition by Alphonse De Neuville



This map shows the expansion of Celtic tribes by 275 A.D. (in light green) from their presumed origin, the Bronze Age Hallstatt culture (in yellow). Dark green areas show regions where Celtic languages are still spoken today.



Retreat of Celtic influence into Ireland & Brittany

The Romans

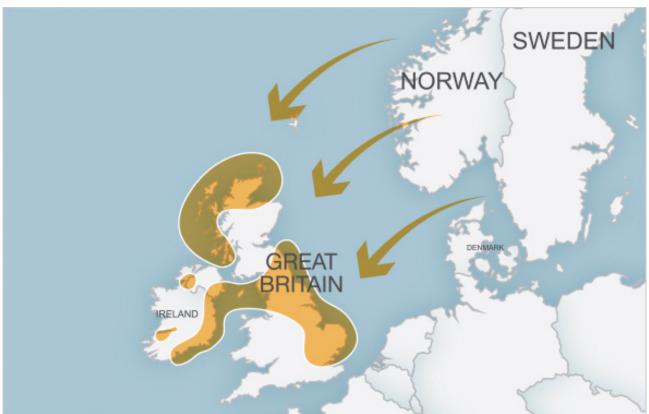
The Romans eventually conquered the Gauls and began an invasion of the British Isles in 43 A.D. Most of southern Britain was conquered and occupied over the course of a few decades. As the Roman Empire advanced, the Celtic tribes were forced to retreat to other areas that remained under Celtic control, chiefly Wales, Ireland, Scotland, the Isle of Man, and Brittany. The Roman presence largely wiped out most traces of Celtic culture in England—even replacing the language. Since the Romans never occupied Ireland or Scotland in any real sense, they are among the few places where Celtic languages have survived to this day.

The Vikings

Beginning in the late 8th century, Viking raiders began attacking the east coast of England and the northern islands off Scotland. The first recorded Viking raid in Ireland was in 795 A.D. on the island of Lambay, off the coast of Dublin. During the next few centuries, they controlled parts of the islands, exacting tribute, and pillaging villages and monasteries.

During the 9th century, the Vikings established trading ports in Dublin, Cork, Waterford, Wexford, and Limerick. As they settled in Ireland, Vikings intermarried and assimilated with the native population. Today, many Irish surnames such as Loughlin, Doyle, and Cotter are of Viking origin.

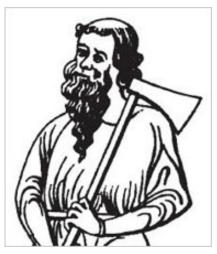


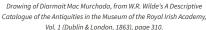


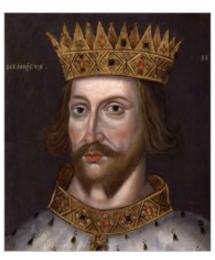
Viking invasions beginning in the late 8th century

The Normans

During the 12th century, Ireland consisted of a number of small warring kingdoms, and England was ruled by Norman kings (the Normans originated in Northern France where they gave their name to the region of Normandy). When Diarmait Mac Murchada, the King of Leinster, was deposed by the Irish High King, he turned to Henry II of England for help. Henry sent Norman mercenaries to assist, and Mac Murchada regained control of Leinster, though he died shortly thereafter. Then in 1171, Henry II seized control of Ireland, and with the support of Pope Adrian IV, he took the title "Lord of Ireland," and the Norman lords established a presence in Ireland.







King Henry II by unknown artist. Nation Portrait Gallery, London.



Pope Adrian IV

The Norman invasion brought many changes to Ireland like walled towns and the building of castles and churches. Like the Vikings before them, the Normans assimilated with the native Irish population. The Norman influence in Ireland lives on in surnames such as Butler, French, Roche, and Burke. Irish surnames beginning with "Fitz" are also Norman. Fitz is the equivalent of the Gaelic "Mac" meaning "son of." For example, the name Fitzpatrick indicates a descendant of a Patrick.

English Rule

As Norman influence declined in Ireland, the English monarchs took a more direct role in the governance of Ireland. In 1542 after a failed Irish rebellion, Henry VIII created the Kingdom of Ireland, bringing the area under direct English rule.

Around this time Henry made another decision that had far reaching consequences for Ireland. In 1527 after the Pope refused to annul Henry's marriage to Catherine of Aragon. Henry broke away from the Roman Catholic Church and created the Church of England, with the English monarch as its head. This English Reformation resulted in a rise in Protestantism across England, Scotland, and Wales. Ireland was resistant to Protestantism, and when England attempted to force it upon them—and failed—the Crown replaced Irish landowners with thousands of Protestant colonists from England and Scotland. These colonies became known as the Plantations of Ireland, whose long term effect was to replace the Catholic ruling classes with Protestants. Then in the 1600's Penal Laws were introduced which denied Catholics many land owning and political rights. The repression of Catholics in Ireland continued up until the 1830s when Daniel O'Connell led the campaign for Catholic Emancipation.

English Plantations in Ireland

Established under Mary I (1556)

Established under Elizabeth I (1586)

Established under James I (1609)

Established under James I (1619-20)

Privately planned

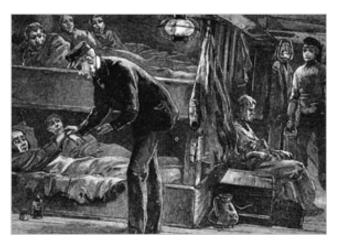


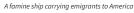
Irish Emigration

In June 1963, when he visited Ireland, President John F. Kennedy gave a speech in Cork in which he said 'Most countries send out oil or iron, steel or gold, or some other crop, but Ireland has had only one export and that is its people.

Ireland has a history of emigration that goes back centuries. Plantations and Penal Laws created harsh conditions for Catholics and Dissenters (Protestants who were separate from the Church of England). For many emigration was the only option for survival. In the 1600s Irish migrated to the Caribbean and Virginia Colony. In the 1700s many Irish Quakers and Presbyterians departed for North America. Although the "Great Famine" of the 1840s is often mentioned as the time of mass migration out of Ireland, the decades after the famine saw even greater numbers of people leaving its shores.

The 20th century saw several waves of Irish emigration. During the 1940s, 1950s, and 1980s a great many Irish left Ireland for a new life abroad. The main destinations for Irish emigrants have been Great Britain, America, and Australia. Today it's estimated that up to 100 million people around the world can claim Irish heritage.







The Great Irish Famine (Irish 'an Gorta Mór'): Interior of a Peasant's Hut by H. Werdmuller

Did You Know?

James Watson—a co-discoverer of the structure of DNA—has Irish roots. His maternal great-grandparents came from County Tipperary in the southern part of Ireland. And Watson was inspired to study genetics after reading Erwin Schrödinger's "What is Life?" which was written in Dublin in 1944.

Iberian Peninsula

Primarily located in: Spain, Portugal

Also found in: France, Morocco, Algeria, Italy

Separated from the rest of continental Europe by the Pyrenees Mountains, the Iberian Peninsula lies between the Mediterranean Sea and the Atlantic Ocean. Gibraltar, at the peninsula's southern tip, is just a little over nine miles from the north coast of Africa. This proximity would play a major part in the history and identity of Spain and Portugal.

How Kellie King compares to the typical person native to the Iberian Peninsula region

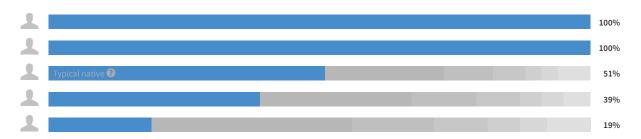


Genetic Diversity in the Iberian Peninsula Region

The people living in the Iberian Peninsula region are fairly admixed, which means that when creating genetic ethnicity estimates for people native to this area, we see similarities to DNA profiles from other nearby regions. We've found that approximately 51% of the typical native's DNA comes from this region.

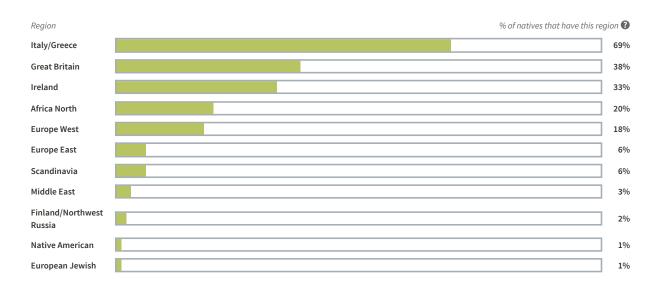
Examples of people native to the Iberian Peninsula region

From a collection of 125 people ?



Other regions commonly seen in people native to the Iberian Peninsula region

From a collection of 125 people



We have used our reference panel to build a genetic profile for the Iberian Peninsula. The blue chart above shows examples of ethnicity estimates for people native to this region. For the Iberian Peninsula, we see a fairly wide range of results. Some natives have only 19% of their DNA showing similarity to this profile, while there is a larger group which shows 100% similarity. Since approximately 51% of the typical native's DNA comes from this region, 49% is more similar to surrounding areas such as the Italy/Greece region (see chart above, in green).

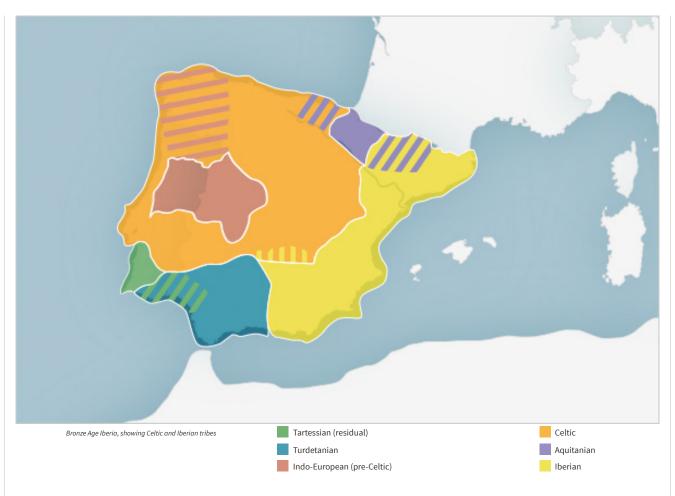
Population History

People of Prehistoric Iberia

The Iberian Peninsula has been inhabited for more than a million years, from the Paleolithic Cro-Magnon and Neanderthals to modern Homo sapiens. A number of Iberian civilizations had developed by the Bronze Age and were trading with other Mediterranean communities. Celtic tribes arrived from central Europe and settled in the northern and western parts of the peninsula, intermixing with the local populations. Phoenician colonies (later controlled by the powerful Carthaginians) dotted the Mediterranean coast. The Greeks named the region "Iberia," after the Ebro River.



Iberian Peninsula



Romanization

The Carthaginians were the naval superpower of their day, controlling most of the maritime trade in the western Mediterranean. They ran afoul of the growing Roman Empire in the 3rd century B.C., however. Local disputes between city-states in Sicily escalated into a broader conflict between the two empires, triggering the Punic Wars (264 B.C. to 146 B.C.).

Iberia was a major source of manpower and revenue for the Carthaginian military, which relied heavily on mercenary soldiers. The great Carthaginian general Hannibal led the Iberian forces in a surprise assault on northern Italy—and even Rome itself—by marching his armies, including several dozen war elephants, over the Alps. Although Hannibal was a brilliant strategist and won several victories against the Romans, his invasion ultimately failed. He was forced to retreat to Carthage, and the Iberian colonies and territories that had been controlled by Carthage became a province of the Roman Empire known as Hispania.



Hannibal's Elephants by French artist Nicolas Poussin

Rome launched a number of campaigns to conquer the remainder of the peninsula, bringing most of the region under Roman rule. Latin replaced almost all of the locally spoken languages and eventually evolved into modern Spanish and Portuguese. One exception is the Basque language, which survived in the remote foothills of the Pyrenees. Many scholars believe Basque pre-dates the arrival of the Indo-European languages, brought by the Celtic and Iberian tribes during the Bronze Age.

Germanic Visigoth Kingdom

The Migration Period, or Völkerwanderung, was a vast movement of primarily Germanic tribes throughout Europe, beginning around 400 A.D. These wandering tribes completely transformed central and western Europe, conquering and displacing populations over the course of centuries. The Roman Empire had already been divided into two parts, with the emperor ruling from the new eastern capital in Byzantium. The Western Empire, including Rome itself, was overrun by successive waves of Germanic invaders, including the Visigoths and the Vandals. The Visigoths continued west from Italy and established the Visigoth Kingdom, which occupied the majority of the Iberian Peninsula. They converted to Catholicism around 589 A.D. and were completely assimilated by the indigenous Hispano-Roman population, as evidenced by the loss of the Gothic language and a lack of any substantial genetic difference between the groups.



Visigoth Kingdom, 600 A.D.

Islamic rule

North Africa remained part of the Roman and Byzantine Empires for centuries after the defeat of Carthage. But in the late 7th century, the region was conquered by the Umayyad Caliphate, a vast Muslim empire based in Syria. The North African Muslims consisted mostly of indigenous Berbers and an Arab minority, collectively called "Moors" by the Europeans.

In 711 A.D., the Moors crossed the Strait of Gibraltar and conquered the Visigoth Kingdom and most of Iberia, forcing the Christian Visigoths to retreat to the northern part of the peninsula. Iberia became a province of the Umayyad Caliphate called Al-Andalus. While many converted to Islam and adopted the Arabic language, the majority of the population remained Christian and spoke Latin.



Illustration of Tariq ibn Ziyad, a Muslim general who led the Islamic conquest of Visigothic Hispania in 711-718 A.D. He is considered one of the most important military commanders in Iberian history.

The duration of Muslim rule varied, lasting only a few decades in the north and nearly 800 years in the south. Al-Andalus broke away from the Caliphate after the overthrow of the Umayyads in Syria and became an independent emirate ruled by a succession of Muslim dynasties. From 722 to 1492, the Christian kingdoms of the north fought to regain control of the peninsula in a campaign called "the Reconquista" (or re-conquest), but they made limited headway until the 13th century. By then, Muslim rule had fractured into a number of smaller, competing emirates, which made them more vulnerable.

Age of Discovery

In 1469, the Christian kingdoms of Leon, Castile, and Aragon were brought together by the marriage of Queen Isabella and King Ferdinand II. Although the thrones technically remained separate, their royal union created a new political entity, España, laying the foundation for the modern kingdom of Spain. Portugal was also established as a distinct country at this time, and the boundaries between the two nations have remained virtually unchanged since then.

The year 1492 was especially busy for Ferdinand and Isabella. They issued the "Alhambra Decree," which expelled all Jews from Spain, scattering them throughout the Mediterranean, Europe, and the Middle East. They also defeated the last Muslim stronghold at Grenada, bringing an end to the Reconquista. In addition, Ferdinand and Isabella financed the first voyage of Christopher Columbus to the New World, beginning a period of exploration, colonization, and exploitation of the Americas. Called the Age of Discovery, it led to immense wealth and power for Spain, as they became an unmatched maritime power and extracted gold, silver, and other resources from their colonies across the Atlantic. To this day, Spanish remains the second-most widely spoken language in the world. Portugal kept pace with its neighbors, establishing the first trade route around the southern tip of Africa, as well as numerous colonies, including Brazil.



Columbus Before the Queen by Emanuel Gottileb Leutze

Did You Know?

The Portuguese explorer Bartholomew Dias was the first European to sail around the southern tip of Africa. He named it the "Cape of Storms," but it is now called the Cape of Good Hope.

Italy/Greece

Primarily located in: Italy, Greece

Also found in: France, Switzerland, Portugal, Spain, Serbia, Hungary, Bulgaria, Austria, Croatia, Bosnia, Romania, Turkey, Slovenia, Algeria, Tunisia, Montenegro, Albania, Macedonia, Kosovo

Located in the south of Europe, against the Mediterranean Sea, this region gave rise to some of the most iconic and powerful cultures the Western world has known. The Greeks were first, with their pantheon of gods, legendary heroes, philosophers and artists. They subsequently influenced the Romans, whose vast empire spread its ideas and language across Europe.

How Kellie King compares to the typical person native to the Italy/Greece region



Genetic Diversity in the Italy/Greece Region

The people living in the Italy/Greece region are admixed, which means that when creating genetic ethnicity estimates for individuals native to this area, we frequently see some similarities to DNA profiles from other nearby regions. We've found that approximately 72% of the typical native's DNA comes from this region.

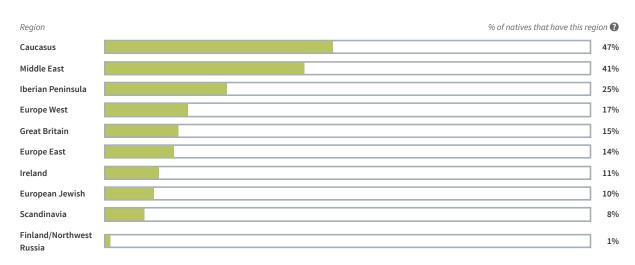
Examples of people native to the Italy/Greece region

From a collection of 205 people ?



Other regions commonly seen in people native to the Italy/Greece region

From a collection of 205 people



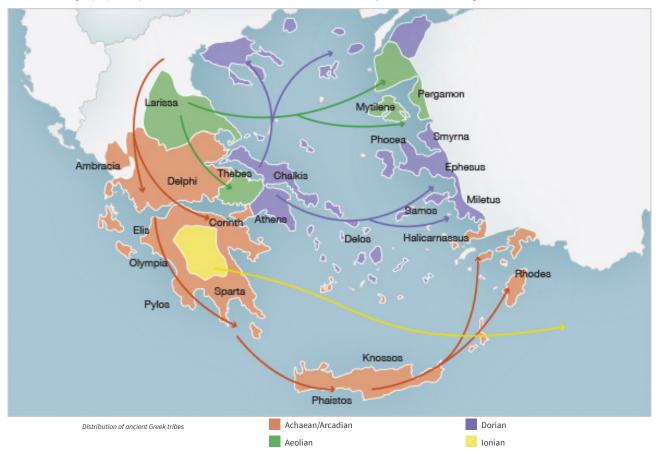
We have used our reference panel to build a genetic profile for Italy/Greece. The blue chart above shows examples of ethnicity estimates for people native to this region. Most Italy/Greece natives have between 65% and 100% of their DNA showing similarity to this profile. It's also possible, however, to find people whose DNA shows very little similarity. Since approximately 72% of the typical native's DNA comes from this region, 28% of his or her DNA is more similar to other regions, such as the Caucasus, Middle East, Iberian Peninsula, and Europe West.

Population History

Prehistoric Italy/Greece

The history of this region is dominated by two titans: the Greeks and the Romans. During the height of the Classical Era, the Greeks introduced cultural, civic and philosophical ideas and innovations that heavily influenced the Roman Empire and, in turn, laid the foundations of Western civilization.

Ancient Greece was settled by four different Greek-speaking groups. During the Bronze Age, Mycenaean Greece of Homer's epics consisted of the Achaeans, Aeolians and Ionians. It was one of the great powers of its time. The remaining group, the Dorians, rose to prominence around 1100 B.C. when the Mycenaean civilization collapsed. The influence of these groups spread beyond mainland Greece to the western coastline of modern Turkey and the islands of the Aegean Sea.



The Greeks also founded colonies in southern Italy and Sicily. Called Magna Graecia in Latin, these settlements existed alongside the native tribes of the Italian peninsula, including the Etruscans, Umbrians and Latins. The Latins would later build their capital in Rome, drawing heavily on the culture of their Greek neighbors.

Colonies of Italy/Greece

Besides Sicily and southern Italy, the Greeks established many more colonies around the Mediterranean, from approximately 750 B.C. until 500 B.C. Established as small city-states, most of these colonies were trading outposts. Others were created by refugees when Greek cities were overrun and the displaced inhabitants looked for new land. More than 90 Greek colonies were established, from Ukraine and Russia to the north, Turkey to the east, southern Spain in the west, and Egypt and Libya in the south.

The Classical Age of Greece began around the 5th century B.C. It was the era of Athens, Sparta, the birth of democracy, and many of Greece's famous playwrights and philosophers. After two bloody wars with the Persian Empire, Athens and Sparta went to war with each other, leading to the eventual decline of both. The Macedonian king, Philip II, united the Greek city-states in 338 B.C. After Philip's assassination, his son, Alexander the Great, became king of Macedonia and carried out his father's plans to invade Persia. Alexander led his armies in conquest of the Middle East, part of India, and Egypt, spreading the Greek language and culture throughout much of the ancient world.

Phillip II, king of Macedonia. The Granger Collection, New York.





Alexander the Great. Detail of The Alexander Mosaic.

His triumph was short-lived, however; he died on his campaign and his conquered territories were divided among his generals. But many important Greek cities and colonies were established and remained under Greek rule, including Seleucia, Antioch and Alexandria.



Epirus

Epirus-controlled territory

While Greece spread its influence eastward, the small city of Rome was growing into a regional power in Italy. As the Roman Republic expanded, it established colonies of Roman citizens to maintain control of newly conquered lands. By the time Julius Caesar seized power from the Senate, the Roman war machine was nearly unstoppable. Soldiers who served for years in the military were rewarded with land in Roman colonies throughout the empire, which stretched from Turkey and the Middle East to Spain and northern France.

Invasion of the barbarians

During the late Roman Empire, Constantine the Great established Constantinople as the eastern capital of the Roman Empire. The Empire was divided and, as the focus of power shifted away from Rome, the Western Empire was left vulnerable to a series of invasions by Goths, Huns, Visigoths and Heruli. In 476 A.D. a Germanic soldier, Odoacer, deposed the last Western Roman emperor, Romulus Augustulus, signaling the fall of the old Roman Empire. The Eastern Empire continued to flourish, becoming known as the Byzantine Empire. Odoacer was soon murdered by the Ostrogoth ruler Theodoric. Although the barbarians had seized Rome, they never established a major settlement in Italy.



Romulus Augustulus resigns the Crown before Odoacer. Project Gutenberg's Young Folks' History of Rome by Charlotte Mary Yonge.

From around 610 A.D. to 867 A.D., the Byzantine Empire was attacked by numerous groups, including the Persians, Lombards, Avars, Slavs, Arabs, Normans, Franks, Goths and Bulgars. During the 8th and 9th centuries, the empire slowly freed Greece from these invaders. The Slavs had the most success at establishing permanent settlements in Greece, although they, too, were eventually defeated and banished from the Greek peninsula.

During this time, Greek-speaking people from Sicily and Asia Minor migrated to Greece, and a large number of Sephardic Jews emigrated from Spain to Greece, as well.

Ottoman Empire

The Ottoman Empire conquered the Byzantine Empire, expanding through Greece and capturing Athens in 1458. Many of the Greek scholars fled and migrated to Christian Western Europe. Ottoman colonies were established in several areas in Greece, and held on until Greek independence was declared in 1821.



The Battle of Maniaki during the Greek War of Independence from the Ottoman Empire

Italy in the Middle Ages

During the 12th and 13th centuries, the city-states of Italy developed trading and banking institutions. They established a wealth of trading relationships with the Byzantine Empire and the Islamic powers, all around the Mediterranean. The escalation in trade lead to a resurgence of financial power in Italy, allowing it to create Italian colonies as far away as the Black Sea.

Did You Know?

Togas weren't worn by everyone in ancient Rome. After the 2nd century B.C., only freeborn Roman men were allowed to wear them as a symbol of their citizenship.

The Greeks were the first to develop an alphabet with vowels and it has been used to write the Greek language since 800 B.C.



An inscription showing the Greek alphabet

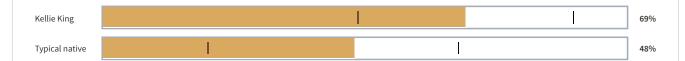
Europe West

Primarily located in: Belgium, France, Germany, Netherlands, Switzerland, Luxembourg, Liechtenstein

Also found in: England, Denmark, Italy, Slovenia, Czech Republic

The Europe West region is a broad expanse stretching from Amsterdam's sea-level metropolis to the majestic peaks of the Alps. Geographically dominated by France in the west and Germany in the east, it includes several nations with distinct cultural identities. From the boisterous beer gardens of Munich to the sun-soaked vineyards of Bordeaux and the alpine dairy farms of Switzerland, it is a region of charming cultural diversity.

How Kellie King compares to the typical person native to the Europe West region

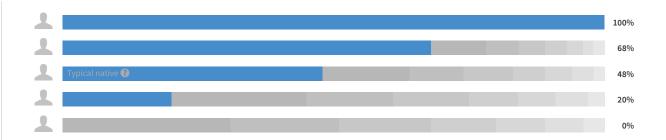


Genetic Diversity in the Europe West Region

The people living in the Europe West region are among the most admixed of all our regions, which means that when creating genetic ethnicity estimates for people native to this area, we often see similarities to DNA profiles from other nearby regions. We've found that approximately 48% of the typical native's DNA comes from this region.

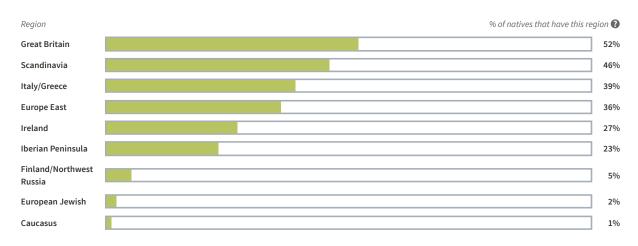
Examples of people native to the Europe West region

From a collection of 416 people 😯



Other regions commonly seen in people native to the Europe West region

From a collection of 416 people



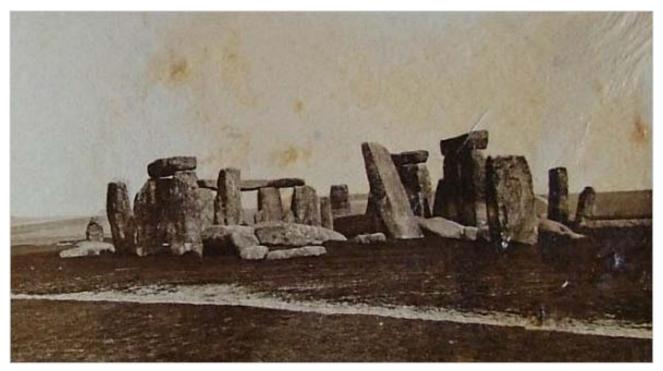
We have used our reference panel to build a genetic profile for Europe West. The blue chart above shows examples of ethnicity estimates for people native to this region. For Europe West we see an extremely wide range—most natives have between 20% and 68% of their DNA showing similarity to this region's profile. Some individuals show 100% similarity, but it's also possible to find people whose DNA shows little or no similarity. This is most likely due to the fact that this area has not experienced any long-term periods of isolation. Since only 48% of the typical native's DNA comes from this region, there are major genetic influences from other regions, such as Great Britain, Scandinavia, Italy/Greece, Europe East and more (see chart above, in green).

Population History

Prehistoric Western Europe

Due to its location and geography, Western Europe has seen many successive waves of immigrants throughout its history. Both peaceful intermingling and violent invasions of newcomers have resulted in a greater diversity in the genetics of the population, compared with neighboring regions.

The first major migration into Western Europe is arguably the Neolithic expansion of farmers who came from the Middle East. From about 8,000 to 6,000 years ago these farmers filtered in through Turkey and brought with them wheat, cows and pigs. It is possible, too, that these people could have been the megalithic cultures who erected enormous stone monuments like the famous menhirs of Stonehenge. There were dozens, if not hundreds, of monuments scattered throughout prehistoric Europe, some serving as tombs, others possibly having astronomical significance.



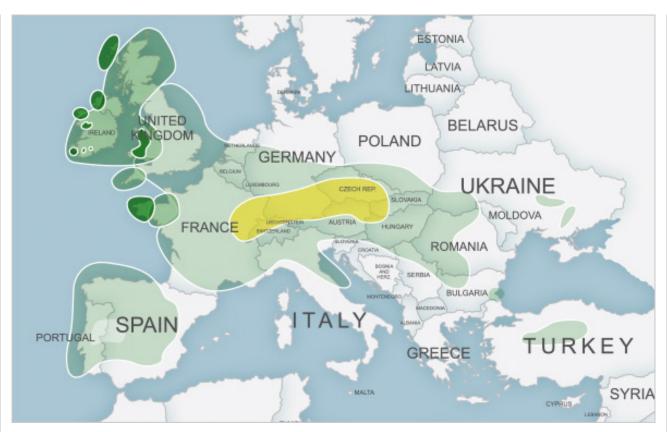
Photograph of Stonehenge taken in July 1877 by Philip Rupert Acott. Owned by Tamsin Titcomb.

Celtic and Germanic tribes

Although "Celtic" is often associated with the people of Ireland and Scotland, the Celts emerged as a unique culture in central Europe more than 2,500 years ago. From an epicenter in what is now Austria, they spread and settled in the areas of today's western Germany and eastern France, generally near the Rhine and Danube Rivers. By 450 B.C., their influence and Celtic languages had spread across most of western Europe, including the areas that are now France, the Iberian Peninsula and the British Isles. The Celts either conquered or assimilated the previous inhabitants of the area, and almost all languages and cultural and religious customs were replaced. The only exception, most scholars believe, is the Basque language, which managed to persist in the Pyrenees of southern France and northern Spain.

In the early 4th century B.C., Celtic tribes in northern Italy invaded and sacked Rome, setting the stage for centuries of conflict.

In the 5th century B.C., Germanic peoples began moving south, from Sweden, Denmark and northern Germany, displacing the Celts as they went. It is unclear what prompted their movement, but it may have been climate related, as they sought warmer weather and more fertile farmland. The Germanic tribes' expansion was checked by the generals, Gaius Marius and Julius Caesar, as they approached the Roman provinces around 100 B.C.



This map shows the expansion of Celtic tribes by 275 A.D. (in light green) from their presumed origin, the Bronze Age Hallstatt culture (in yellow). Dark green areas show regions where Celtic languages are still spoken today.

The Romans

After Rome defeated Carthage in the Punic Wars, the Republic had extended its borders to include the entire Italian Peninsula, Carthage's territories in North Africa, most of the Iberian Peninsula, Greece and parts of Anatolia. It began turning its attention northwest toward the Celtic-dominated region known as Gaul, which more or less covered the area of modern-day France. Part of Rome's motivation was to secure its frontier, as conflict with the Celts was a chronic problem. Julius Caesar led the campaign to conquer Gaul. A Celtic chieftain, Vercingetorix, assembled a confederation of tribes and mounted a resistance, but was defeated at the Battle of Alesia in 52 B.C. The battle effectively ended Celtic resistance. The Gauls were absorbed into the Roman Republic and became thoroughly assimilated into Roman culture, adopting the language, customs, governance and religion of the Empire. Many generals and even emperors were born in Gaul or came from Gallic families.



Vercingetorix Throws Down His Arms at the Feet of Julius Caesar by Lionel Royer.

For the most part, by 400 A.D., Western Europe was split between the Roman Empire and the restless Germanic tribes to the northeast. Celtic culture and influence still held sway in parts of the British Isles, and the Basque language continued to survive in the Pyrenees. It is interesting to note that the Basque share genetic similarities to the Celts of Ireland and Scotland, despite being culturally and linguistically dissimilar and geographically separated. While the exact relationship of the groups is difficult to determine, this does highlight the interesting interplay between genetic origin and ethno-linguistic identity.

The Migration Period

By 400 A.D., the Roman Empire had been split into pieces. Rome was no longer the heart of the Empire, as the seat of power had been moved to Byzantium in the east. The Romans had begun to adopt Greek customs and language as well as Christianity, which had become the official state religion. Control of the provinces in the west had waned, and Rome itself was militarily weakened.

About this time, there was a period of intensified human migration throughout Europe, called the Migration Period, or the Völkerwanderung ("migration of peoples" in German). Many of the groups involved were Germanic tribes, whose expansion had previously been held in check by the Romans.

To some degree, the earlier Germanic tribes of the Migration Period, notably the Goths and Vandals, were being pushed west and south by invasions from the Middle East and Central Asia. The Huns swept across eastern Europe, followed by the Avars, Slavs, Bulgars and Alans. These successive attacks may have been a factor in several waves of population displacement and resettlement.

Seven large German-speaking tribes—the Visigoths, Ostrogoths, Vandals, Burgundians, Lombards, Saxons and Franks—began pressing aggressively west into the Roman provinces and, in 410, the Visigoths attacked and sacked Rome. The western part of the Roman Empire was rapidly overrun as the invaders swept in, eventually dividing the remainder of the Roman provinces into new, Germanic kingdoms.



An anachronistic 15th-century miniature depicting the sack of 410.

The Frankish Kingdom

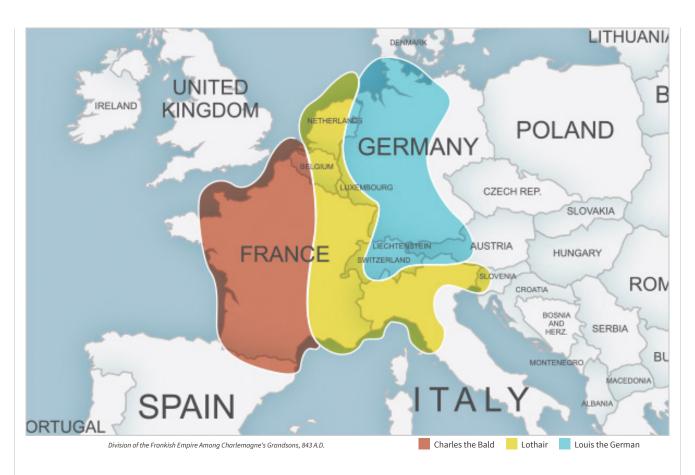
The Franks conquered northern Gaul in 486 A.D. and established an empire under the Merovingian kings, subjugating many of the other Germanic tribes. Over the course of almost four centuries, a succession of Frankish kings, including Clovis, Clothar, Pepin and Charlemagne, led campaigns that greatly expanded Frankish control over Western Europe.

Charlemagne's kingdom covered almost all of France, most of today's Germany, Austria and northern Italy. On Christmas Day, 800, Pope Leo III crowned Charlemagne "Emperor of the Romans." This upset the Byzantine emperor, who saw himself as the sole ruler of the Roman Empire, but by 812, he was forced to accept Charlemagne as co-emperor.

In 843, Charlemagne's grandsons divided the Frankish empire into three parts—one for each of them. Charles the Bald received the western portion, which later became France. Lothair received the central portion of the empire, called Middle Francia, which stretched from the North Sea to northern Italy. It included parts of eastern France, western Germany and the Low Countries. Louis the German received the eastern portion, which eventually became the high medieval Kingdom of Germany, the largest component of the Holy Roman Empire.



Statue of Charlemagne, by Agostino Cornacchini (1725). Located at St. Peter's Basilica, Vatican.



Additional cultures of note

In addition to the Basque in the area of the Pyrenees in southern France, there are a number of other cultures with unique ethnic or linguistic identities in Western Europe. Among them are the Normans of northern France. Descended from Viking settlers who arrived sometime during the rule of the Frankish kings, the Normans controlled a powerful region known as Normandy. Their territories were subject to the French crown, which countenanced them in exchange for protecting the northern coast against other Viking raids.

Just to the west of Normandy was Brittany, named after the Celtic Britons who arrived there from the British Isles in the 5th century. Some scholars believe that the migration may have been due to the Anglo-Saxon invasion of England after the collapse of the Western Roman Empire. Brittany resisted the Frankish kings and remained independent until 1532. It is one of the few places where Celtic languages are still spoken.





Basque-American girl Ce

Did You Know?

Many people think that Henry Ford invented the modern automobile, but it was two German engineers, Karl Benz and Gottlieb Daimler, who each independently came up with the concept around the same time. Teaming up with a French partner, Emile Roger, Benz was selling cars in Germany and France by 1888.

Middle East

 $\textit{Primarily located in: Syria, Iraq, Saudi Arabia, Jordan, Oman, Yemen, United Arab Emirates (UAE), Lebanon, Israel Control of the Control$

Also found in: Iran, Pakistan

Geography and human history have kept this region perpetually in the spotlight. It sits between Eurasia and Africa and is home to some of the world's earliest civilizations. It is also the birthplace of three of the world's major religions—Judaism, Christianity and Islam—with the most holy places of those faiths scattered from Jerusalem to Mecca.

Since it was first inhabited, this vital region has been a natural center of learning, trade, culture—and conflict.

How Kellie King compares to the typical person native to the Middle East region

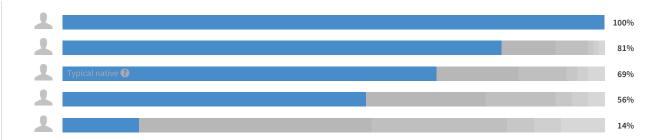


Genetic Diversity in the Middle East Region

People living in the Middle East region today are admixed, which means that when creating genetic ethnicity estimates for people native to this area, we frequently see similarities to DNA profiles from other regions. We've found that approximately 69% of the typical Middle East native's DNA comes from this region.

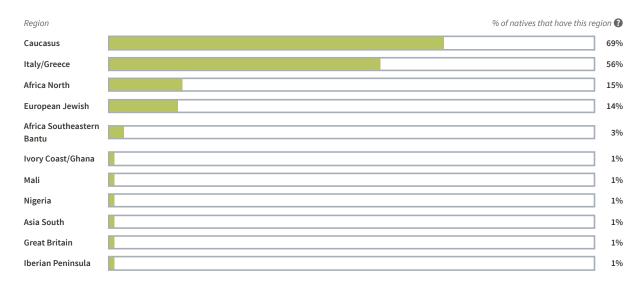
Examples of people native to the Middle East region

From a collection of 153 people 3



Other regions commonly seen in people native to the Middle East region

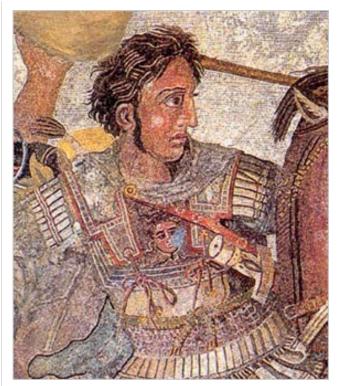
From a collection of 153 people

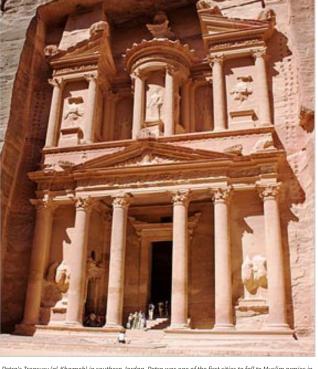


We have used our reference panel to build a genetic profile for the Middle East region. The blue chart above shows examples of ethnicity estimates for people native to this region. For the Middle East region, we see a very wide range. While 69% of a typical native's DNA comes from this region, some have as little as 14% or as much as 100% of their DNA that looks similar to the Middle East profile. For people with DNA similar to other regions, the most common is the neighboring Caucasus region, followed by Italy/Greece. (See the green chart above.)

Population History

The Middle East region includes the eastern Mediterranean coast (also known as the Levant), the Arabian Peninsula and Iraq. Because of its unique geography and long history of habitation, the area has seen plenty of different rulers. These include the Sumerians and Akkadians, among the earliest civilizations in the world, and the mighty Persian Empire, which fought the ancient Greeks at Thermopylae and Marathon. Foreign conquerors, such as Alexander the Great and the seemingly ubiquitous Romans, also dominated the area in their day. The modern cultural landscape began to take shape with the rise of Islam and the great Muslim conquests of the 7th century A.D.





Alexander the Great. Detail of The Alexander Mosaic.

Petra's Treasury (al-Khazneh) in southern Jordan. Petra was one of the first cities to fall to Muslim armies in the 7th century. Photo by David Bjorgen.

As Islam spread outward from the Arabian Peninsula, so did the Arabic language, by far the most widely spoken language in the region. But "Arab" as an identity is a broad term that encompasses many diverse ethnic groups: the historically nomadic Bedouin of the Arabian Desert and the Palestinians, Syrians and Druze of the Levant are only a few. Although the vast majority of Arabs are Muslim, there is a significant Arab Christian minority, as well.

Today, 42% of all Jews live in the State of Israel. According to the Hebrew Bible, the Jews, or Israelites, are descended from Abraham. A Sumerian, Abraham traveled west to the land of Canaan (Palestine), which lay along the eastern coast of the Mediterranean. For much of their history, the Israelites were ruled by other empires, including the Babylonians, Persians, Assyrians, Romans and Ottoman Turks. But there were two periods of self-rule as well, including the reigns of David and his son Solomon.

During World War I, the Arabs helped the British defeat the Ottoman Empire, and the region was divided into French and British Mandates, which more or less defined the current national boundaries. After World War II, the British withdrew from the Palestinian Mandate, leaving the United Nations to divide the region into two states: one Arab and one for the Jewish Diaspora. The division ignited decades of fighting that still influence global politics to this day. The discovery of oil in the mid-1900s transformed the nations of the Arabian Peninsula and the Persian Gulf, catapulting them from among the poorest in the world to some of the richest.



Soldiers in the Arab Army, circa 1916

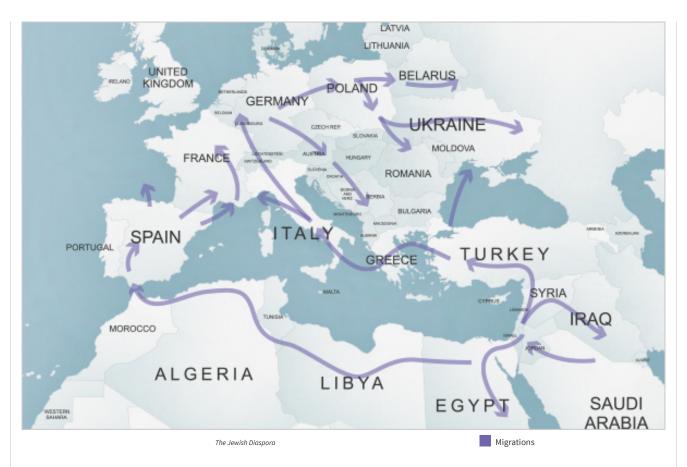
Migrations into this region

About 60,000 years ago, modern humans began a dramatic population expansion out of Africa. The first stop on this journey was the Middle East. For thousands of years, the Arabian Peninsula and the Levant were likely continually occupied, resulting in a broad pool of genetic diversity in this region. Additionally, The Middle East was a waypoint for people moving to and from North Africa, Central Asia and Europe.

Migrations from this region

The southern Arabian Peninsula is thought to be the source of a dramatic migration, some 50,000 years ago, along the coasts of the Indian Ocean. Following this southern coastal route, these early people likely exploited marine resources and migrated from Arabia into India and southeastern Asia, eventually reaching Australia. The Middle East has also significantly influenced European populations, being the basis of the occupation of Europe by modern humans 45,000 years ago. After the invention of agriculture, Neolithic farmers spread into and throughout Europe, contributing to a rise of genetic similarity between the two regions.

The dispersal of Jewish populations from the Middle East is thought to have begun 2,500 years ago. Although some Jewish populations remained in this region, others eventually dispersed to North Africa, Europe, Central Asia and even India.



Did You Know?

While this area is better known for deserts or the Mediterrane an climate along the coasts, you can actually ski at six different resorts in Lebanon.