Scientists have now successfully mapped whole genomes from 27 Icelandic skeletons, which were discovered in previous archaeological excavations.

Most of the skeletons date to the Viking Age, more than 1,000 years ago, and are considered to be from the first one to three generations of Icelanders.

The genetics reveal that the first migrants were either Norse (from Norway or Sweden) or Gaelic (either Ireland or Scotland), or a mixture of the two.

This fits with what researchers already knew: That the first Icelanders were Vikings, who brought slaves from the British Isles.
Genetics add nuance to Iceland’s history

“It’s interesting that one of the earliest Icelandic genomes was already a mixture of Norse and Gaelic DNA, which indicates that people were mixing before they arrived in Iceland, perhaps related to the Viking settlements in Ireland and Scotland,” says Driscoll.

The Vikings occupied Scotland and Ireland from the end of the 700s CE.

One of the skeletons is a woman with Nordic genes, which shows that Norwegian women must have been among the early migrants.

First Icelanders are more like Norwegians than present day Icelanders

If you thought that Icelanders were the closest people, genetically speaking, to the original Vikings, then think again.

Comparing the early Icelandic genomes with those of present day populations revealed an interesting picture.

Surprisingly enough, people living in Iceland today are not the closest genetic match to the early Icelandic skeletons. Instead, the closest match was among people living in areas from where the colonists originated: Norway, Ireland, and Scotland.

Despite the constant migrations to Norway and the British Isles over the past 1,000 years, it is these populations that have preserved more of the original genes than people in Iceland.

Icelandic genomes, meanwhile, have changed markedly.

Study based on genealogy, health registers, and genetic analyses

The study was led by scientists at the Icelandic genetic research centre, deCODE Genetics, who have access to Icelandic genealogy, health registers, and genetic material.

Today, deCODE is owned by the US biotech company, Amgen, with the view to create commercial products, such as new medicines.

“This is why deCODE are interested in ancient genomes—it gives them a starting point for their work with modern day populations and disease,” says Gilbert.

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Read more in the Danish version of this article at Videnskab.dk [11]
Location of the skeletons analysed in the new study. Most were the first colonists. The more recent skeletons were part of a dramatic story: A man and a woman who, according to written sources, were executed in 1704 for the murder of the woman’s husband. He was hanged and his head was sat on a spike as a warning to others. She was drowned. They were both buried in unconsecrated ground at Hjónadysjar. And today, scientists have sequenced the man’s genome. (Map: Sunna Ebenesersdóttir et al. / Science) [13]

The genetic material from a man buried as a Viking reveals both Norse and Gaelic DNA, suggesting the Vikings had children with people in Ireland or Scotland before they migrated north. (Photo: Ívar Brynjólfsson / National Museum of Iceland) [14]

Skeleton of an Icelandic woman who died more than 1,000 years ago. Scientists have now mapped her genome and that of 26 other first generation Icelanders. (Photo: Ívar Brynjólfsson / National Museum of Iceland) [15]


[21] https://geogenetics.ku.dk/staff/?pure=en/persons/295003
[22] http://driscoll.dk/