

# Experimental Senior High School

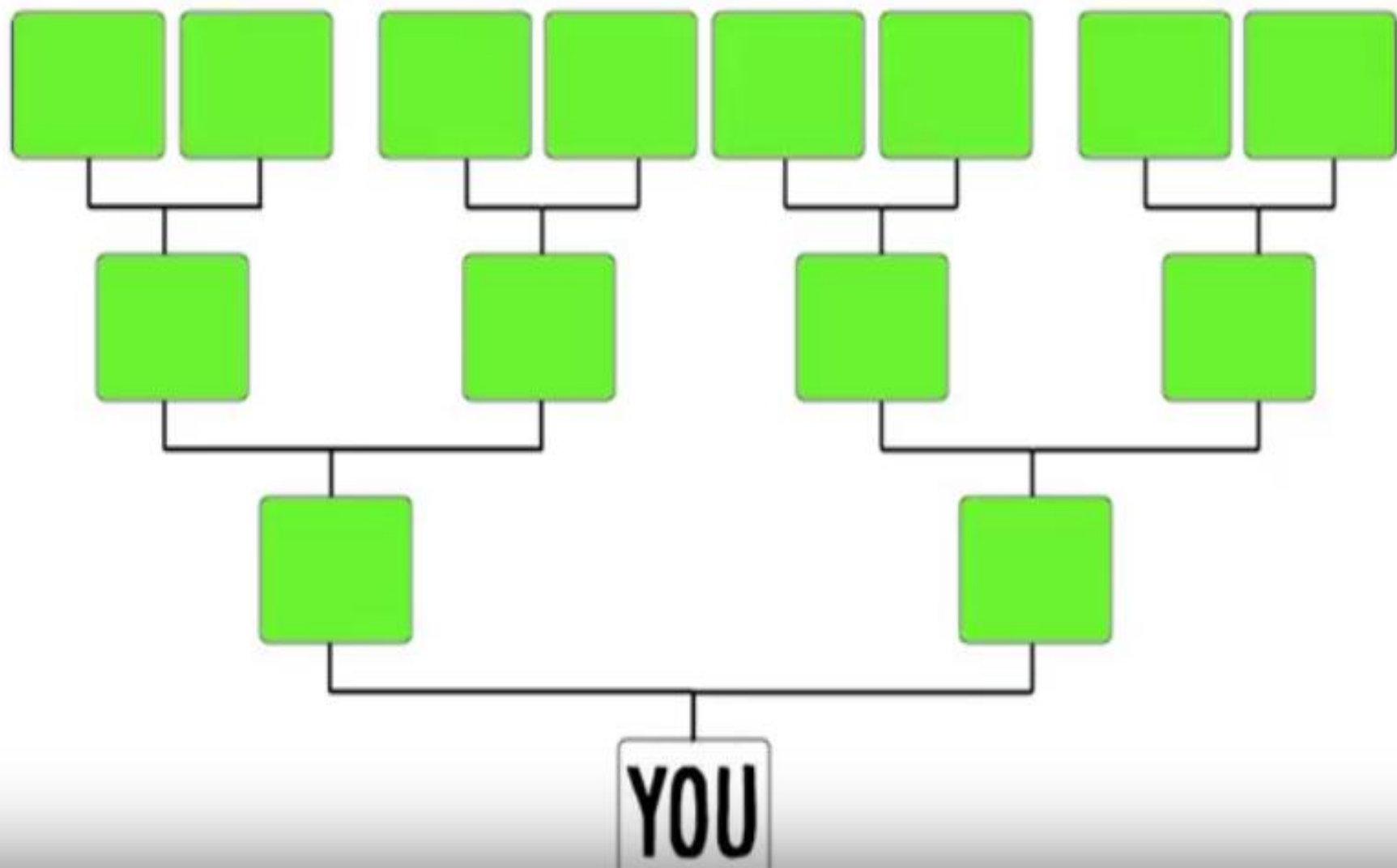
## ENGLISH COURSE 2015-2016

Athanasopoulou Mary

Antonopoulou Sophie

Goulimi Evagelia

***WE ARE ALL RELATED***



**64 generations ago**



1,000,000,000

Clearly something has gone wrong with our math here. The answer, it may interest you to learn, is that your line is not pure. You couldn't be here without a little incest—actually quite a lot of incest—albeit at a genetically discreet remove. With so many millions of ancestors in your background, there will have been many occasions when a relative from your mother's side of the family procreated with some distant cousin from your father's side of the ledger. In fact, if you are in a partnership now with someone from your own race and country, the chances are excellent that you are at some level related. Indeed, if you look around you on a bus or in a park or café or any crowded place, *most* of the people you see are very probably relatives. When someone boasts to you that he is descended from William the Conqueror or the *Mayflower* Pilgrims, you should answer at once: "Me, too!" In the most literal and fundamental sense we are all family.

We are also uncannily alike. Compare your genes with any other human being's and on average they will be about 99.9 percent the same. That is what makes us a species. The tiny differences in that remaining 0.1 percent—"roughly one nucleotide base in every thousand," to quote the British geneticist and recent Nobel laureate John Sulston—are what endow us with our individuality. Much has been made in recent years of the unraveling of the human



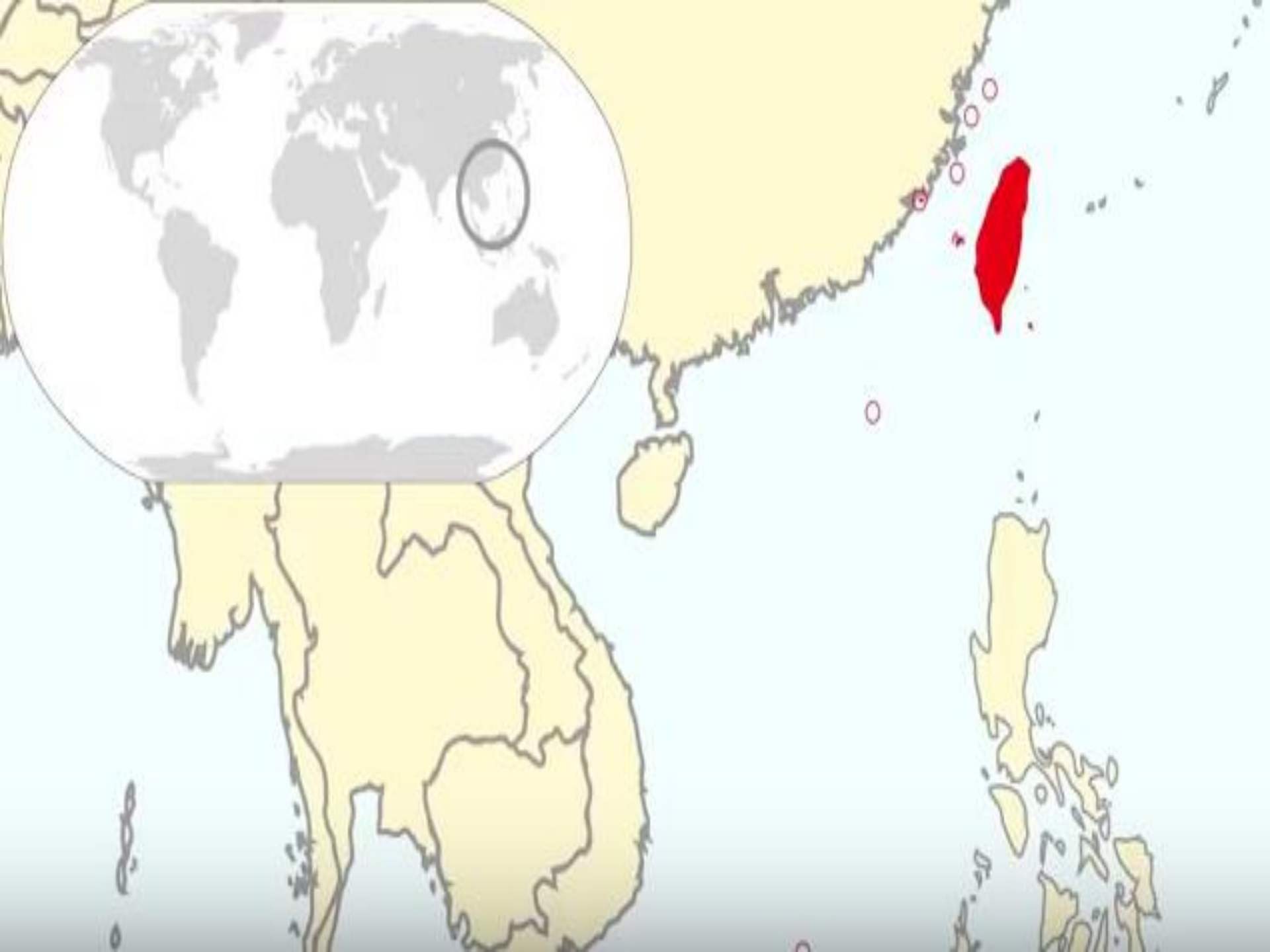


**Most Recent  
Common Ancestor**



2000-4000  
years ago

300 BC



Wavelength



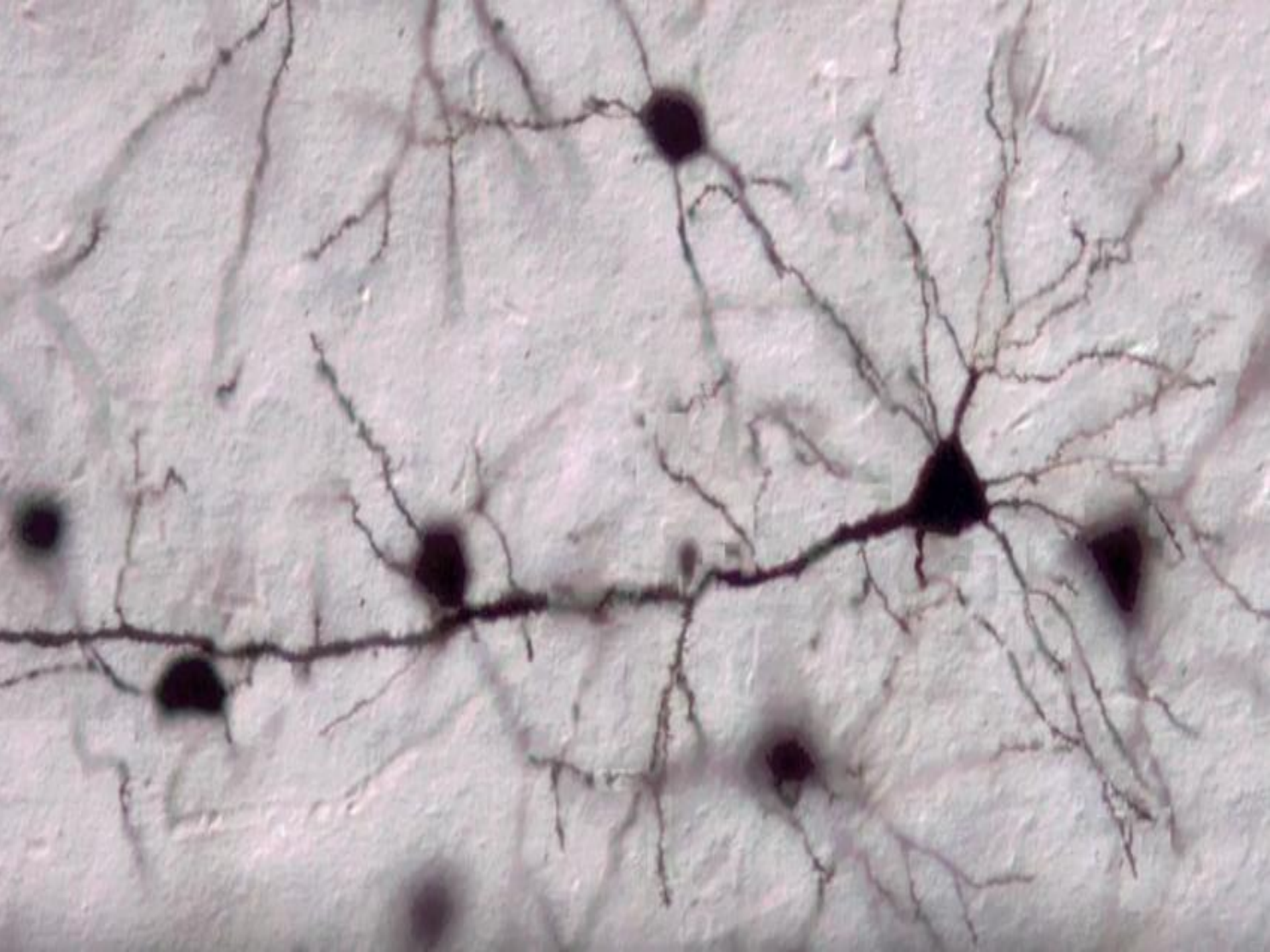
Thou



Twip



$10^{-4.7}$



**12 days**

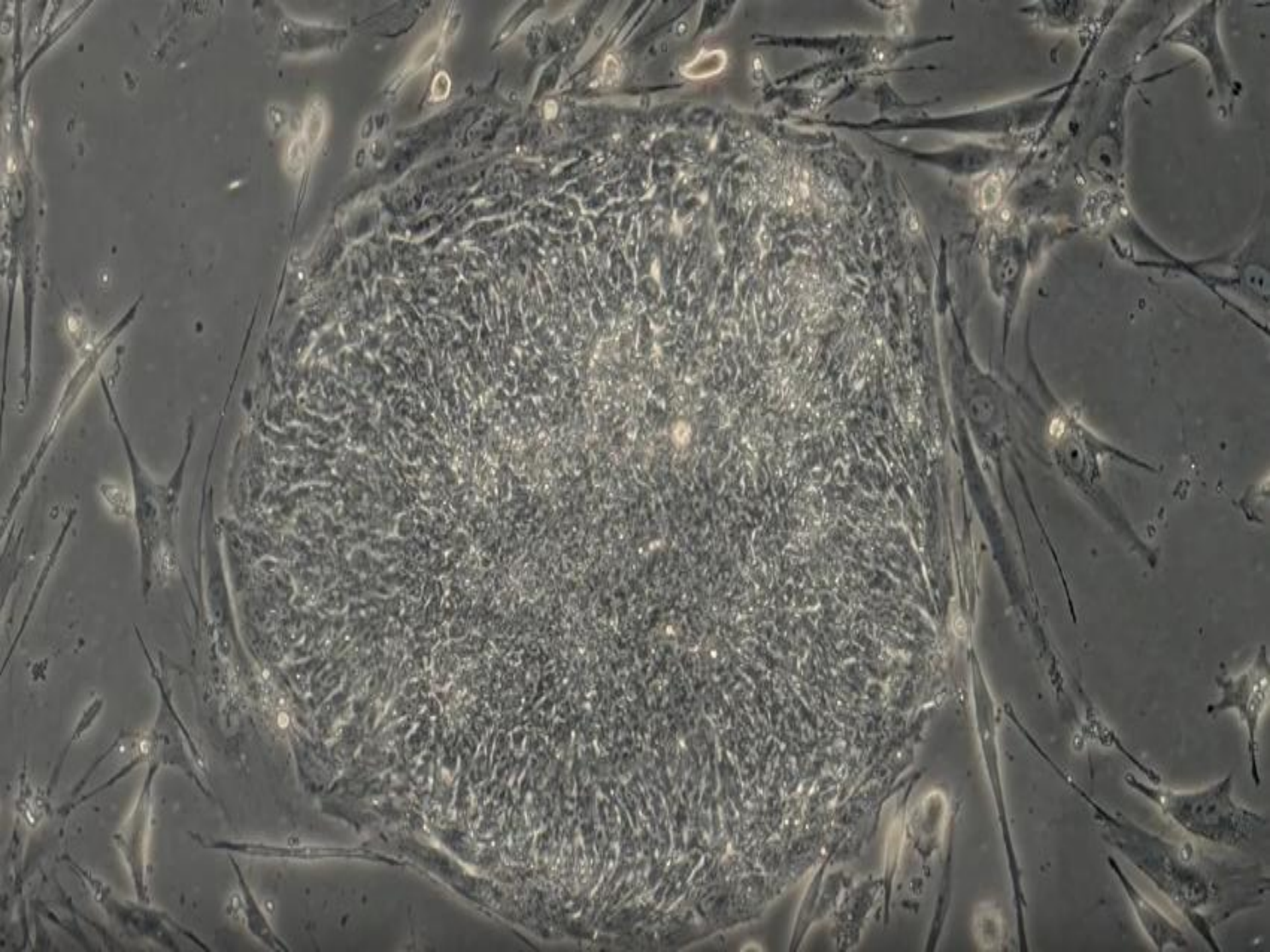


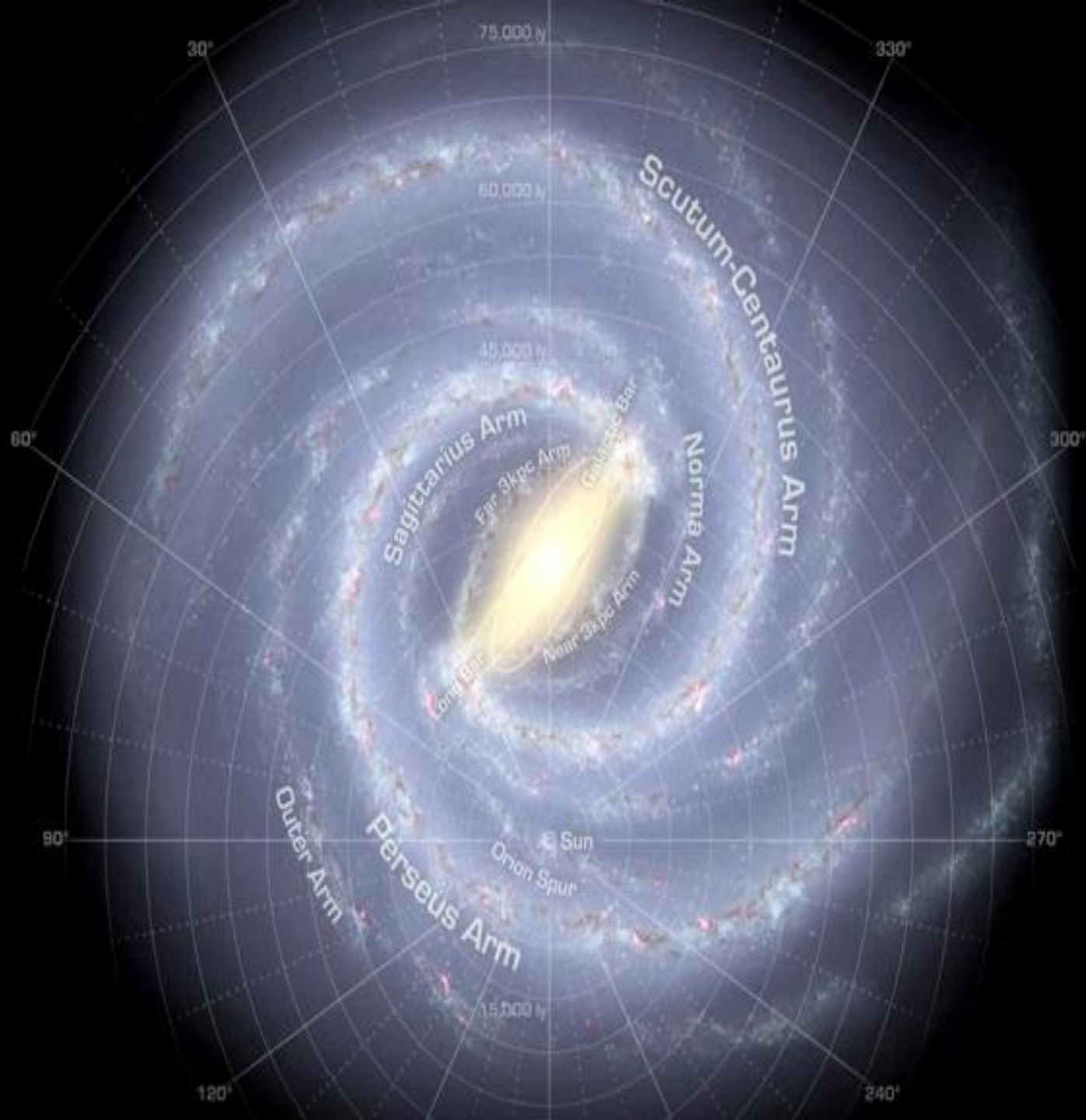
**32 Years**

1,000,000,000

**38 grams**

0.0000000000000038 grams









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# BILL BRYSON

\*A Short History of Nearly Everything

Author of *A Walk in the Woods* and *In a Sunburned Country*

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# THANKS

