```
2
3
    Date: 2020.6.23
4
    Style: Scientific America
5
    Article: Why The Cross Put Chickens On A New Road
6
7
8
    # Why The Cross Put Chickens On A New Road
9
10
    This is Scientific American, 60 Seconds Science, I'm Karren Hoptkin.
11
    Why did the chicken Cross the road?
12
13
    Oh, That's a **philosophical\trans哲学上的** **pickle\trans泡菜**.
14
15
     But if you want to know why chicken don't get cross at people why they're content
16
    being kept in their croops-science can help
17
     Domestic specieces are interesting because they are genetic makeup has changed
18
     dramatically as part of the process, of going from wild to dramastic
19
20
    RL, an evolutionary **geneticist\trans遗传学家** assistant and
     **anthropologist\trans人类学家** at the University of Oxford and Cambridge。
21
22
    And indeed when people have compared modern domestic animals with their wild
     relatives they've identified genes that do show signs of strong recent selection.
23
24
    One such gene is **thyroid\trans甲状腺** stimulating hormone receptor, otherwise
     known as TSHR.
25
2.6
    In chicken, a variant of this gene that is wide spread in modern populations has
    been shown to directly cause chickens to be less fearful of humans and also result
     in reduced aggression towards **conspecifics\同类的**
2.7
28
    But when exactly did the selection for these traits and therefore this variant take
    place
29
     it's been suggested Because of protential use for of massive of this traits domestic
30
     setting, that the selection of gene must happened when chickeens were first
     domesticated around 6 thousand years ago in East Asia
31
     in an evolutionary **timescale\trans时标**, this is just a blink of an eye, and we
32
     just dont know and dont have the resolution to tell when exactly between 6 thousand
     years ago and now the selection happened using data from only modern chicken
    populations
33
     DNA from archaeological material, we can follow what happened with a gene through
34
     time and in theory spot when changes in a population occur
35
36
    L and his college examine TSAR gene sequences in the ancients remains of about 60
     chickens found in the Europe. and estimated that seleciton at this TSHR
     **locus\trans轨迹** happened only around one thousands years ago at medieval times
37
38
39
    that is 5 thousand years after the initial domestication of chicken
40
41
     Interestingly this time period, coinsides with a substantial increase in chicken
     consumption known form the archaeological record
42
43
    Historians suggest that a key driver behind these changes was the rising popularity
     and spread of Christan traditions, which discouraged and also on occuasions even
     banned eating meat from four-legged animals
44
45
    Bur **fowl\trans鸡禽** were fail game.
46
    what is really exciting about this new study is that for the first time we can
47
     directly link genetically changes into the domestic animals with cultural shifts in
    human food preference.
48
49
    The finding is in the journal Molecular Biology and Evolution.
50
    This kind of **plucky\trans大胆** study is not just for the birds.
51
```

1

- 52
  53 L says the team is collecting cannine archaeological samples, so they can look at how man's best friend got divided up into so many different breeds.
- 54
  55 There research will no doubt be dogged.

56

57 Thanks for listening, for Scientific American, 60 Seconds Science, I'm Karren Hopkin.