THE UNBELIEVABLE GENIUS OF TYPING MONKEYS AND COMPUTER VIRUSES

Noemí Durán

EVOLUTION

Change in the genetic make up of a population through generations

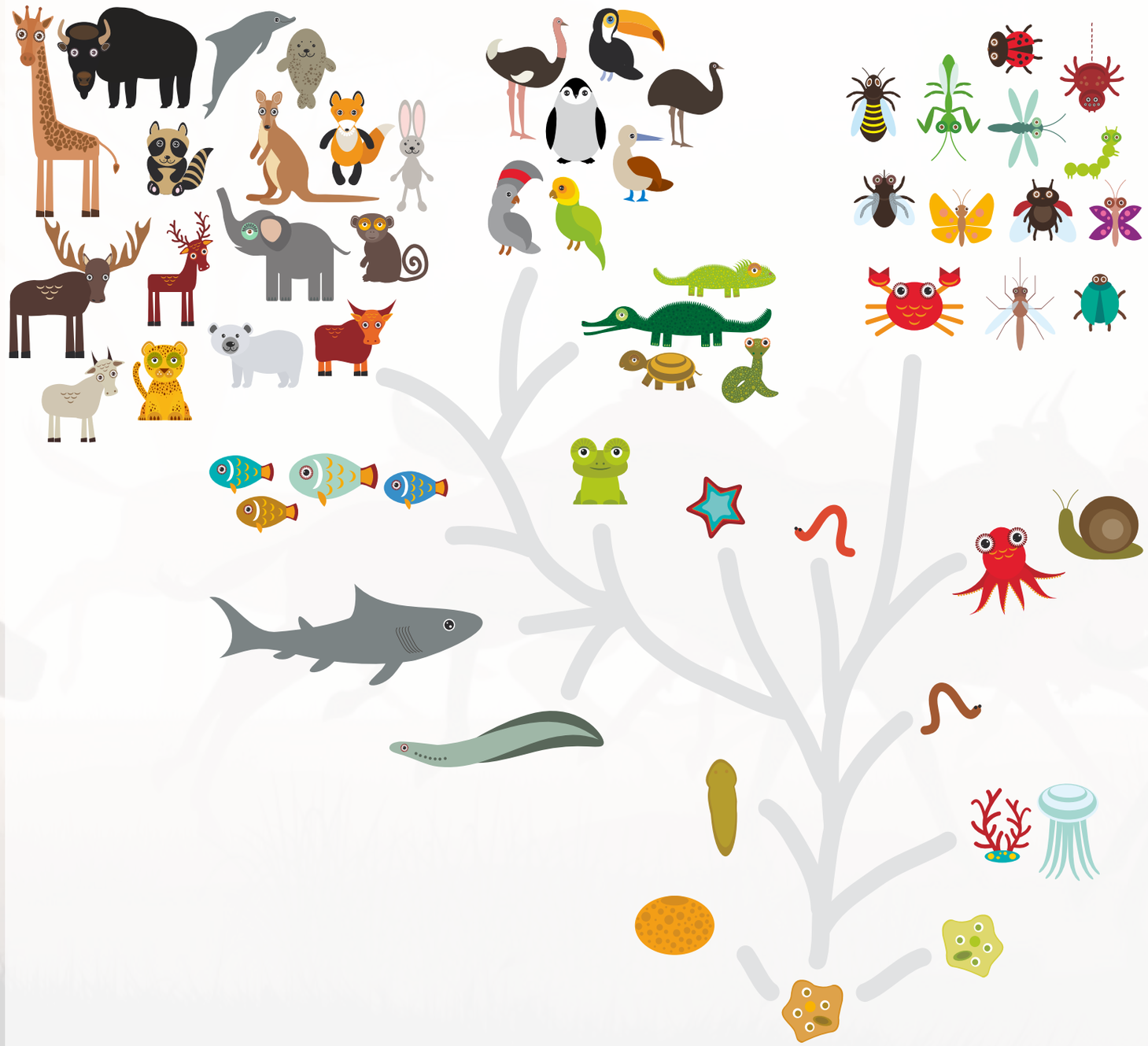
80%

20%

FX

EVOLUTION

Change of one species to another from very small and simple cells to complex animals and plants, along millions of years, by natural processes.

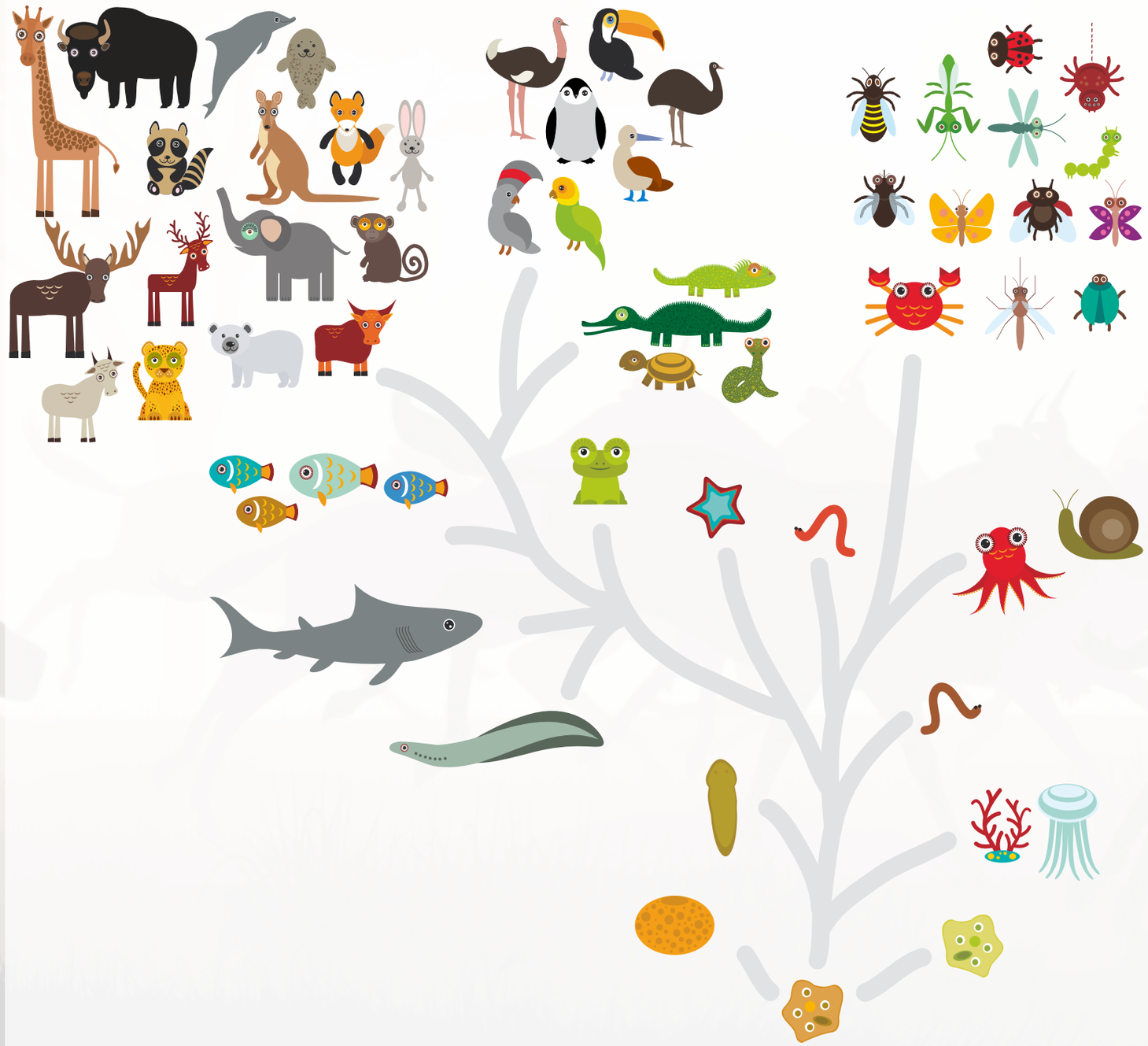


“Biological evolution ... is change in the properties of populations of organisms that transcend the lifetime of a single individual. The ontogeny of an individual is not considered evolution; individual organisms do not evolve. The changes in populations that are considered evolutionary are those that are inheritable via the genetic material from one generation to the next. Biological evolution may be slight or substantial; it embraces everything from slight changes in the proportion of different alleles within a population (such as those determining blood types) to the successive alterations that led from the earliest protoorganism to snails, bees, giraffes, and dandelions”

– *Douglas Futuyma*

EVOLUTION

Change of one species to another from very small and simple cells to complex animals and plants, along millions of years, by natural processes.



NATURAL SELECTION

MUTATION

NATURAL SELECTION

Process by which biological organisms with favorable traits *survive and* ***reproduce more successfully*** than organisms that do not possess such traits, and, conversely, organisms with deleterious traits survive and reproduce less successfully than organisms lacking such deleterious traits.

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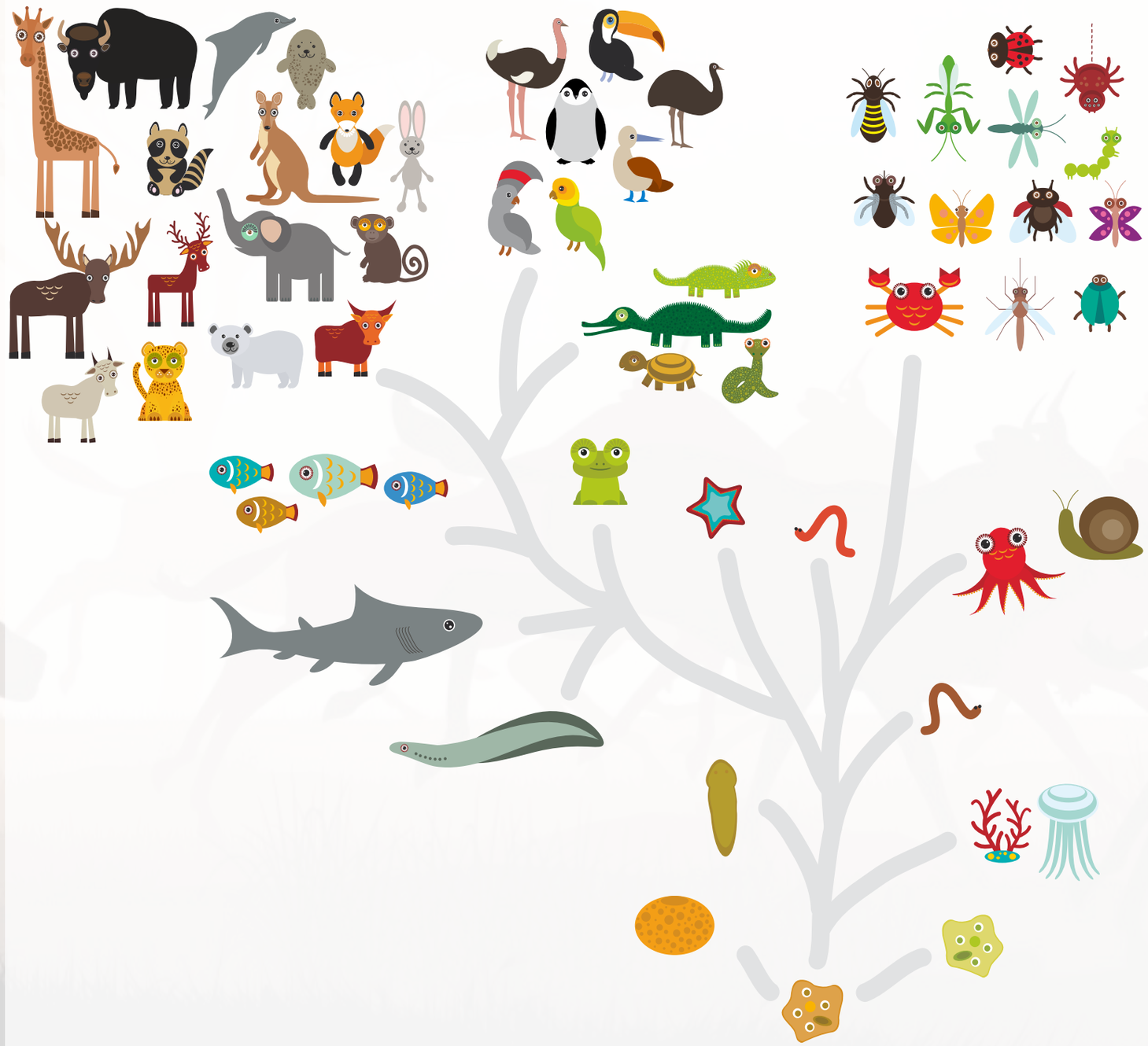
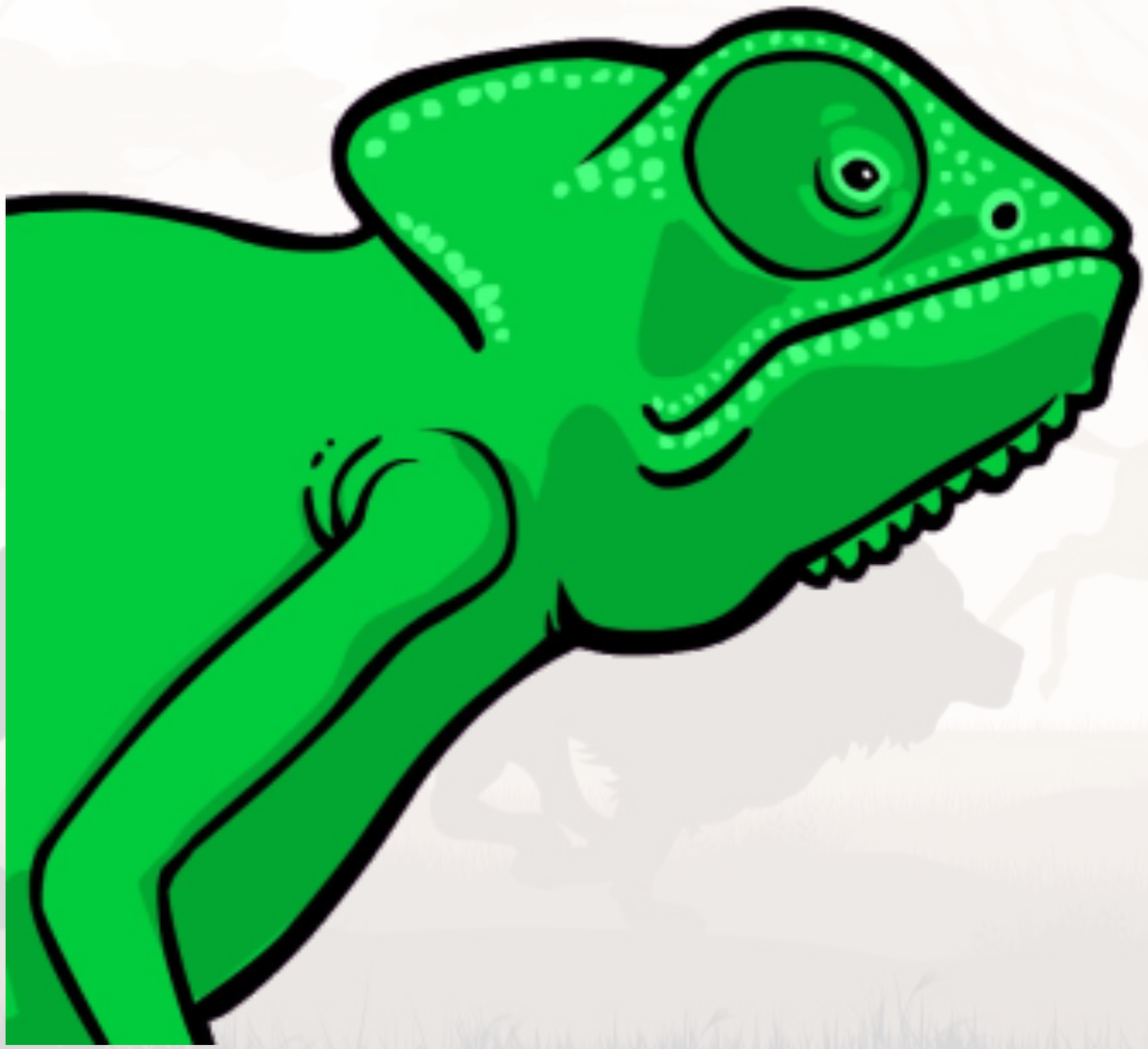
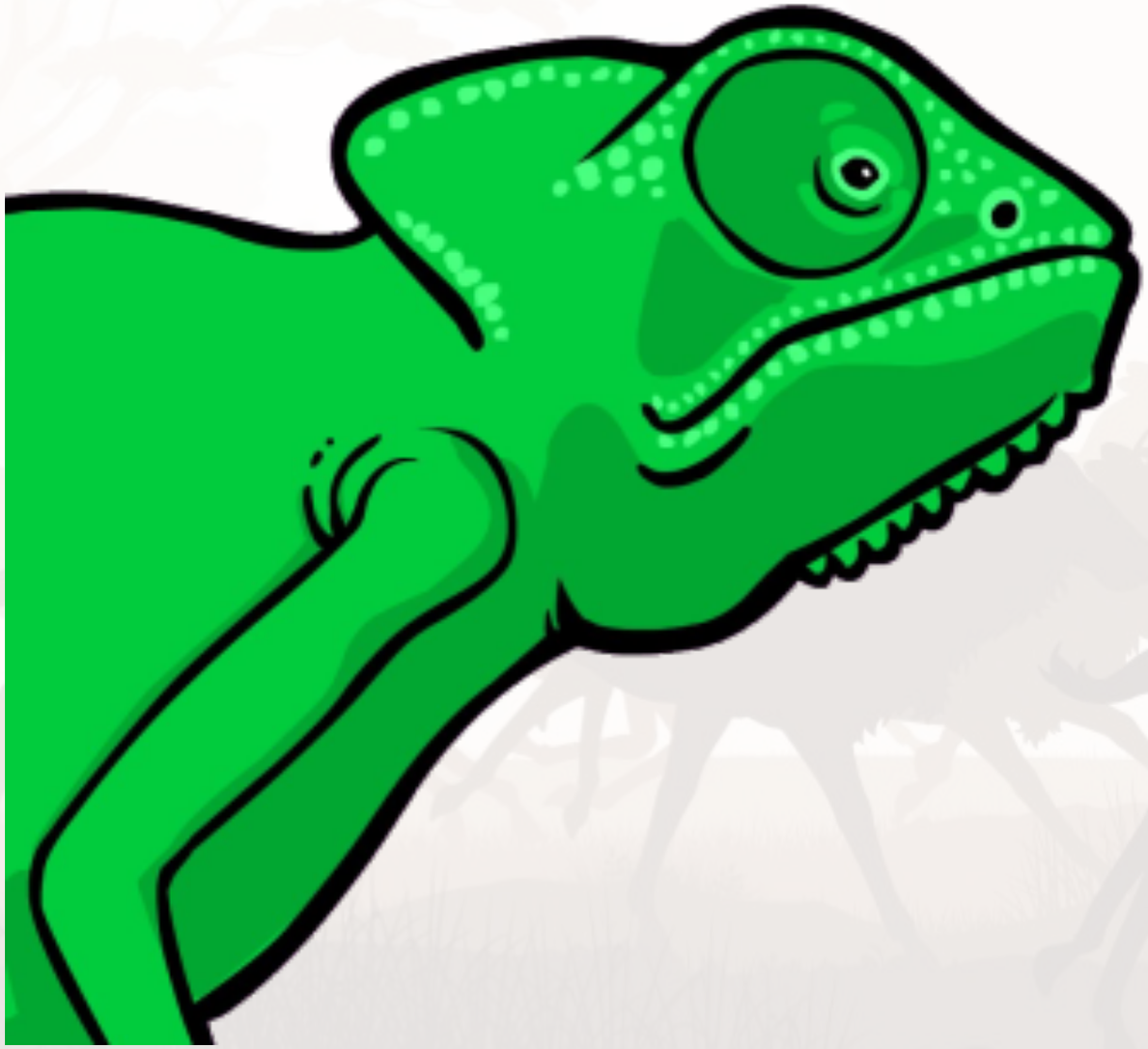
NATURAL SELECTION

Complexity increase

Diversity increase







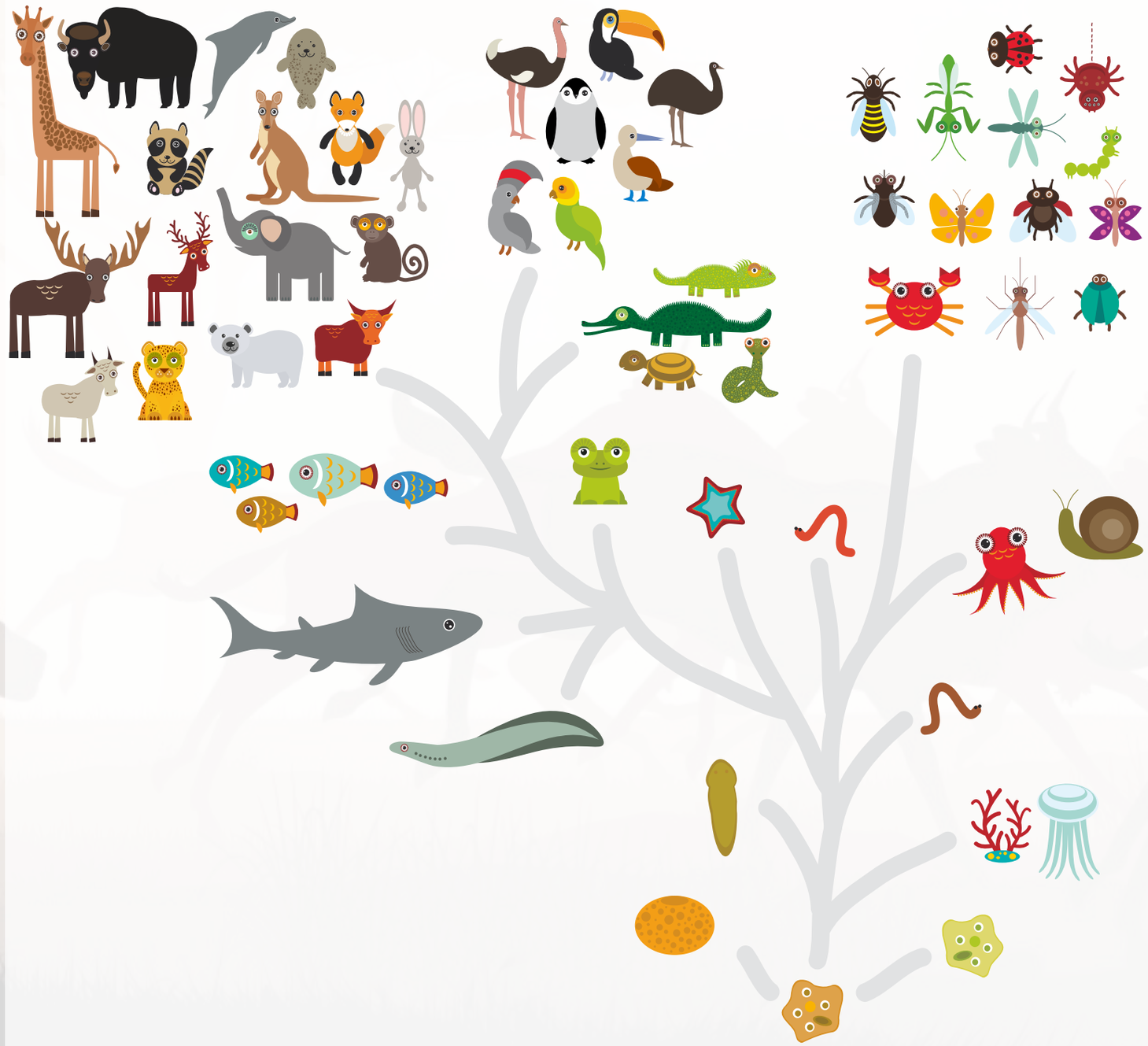
NATURAL SELECTION

Complexity increase?

NO

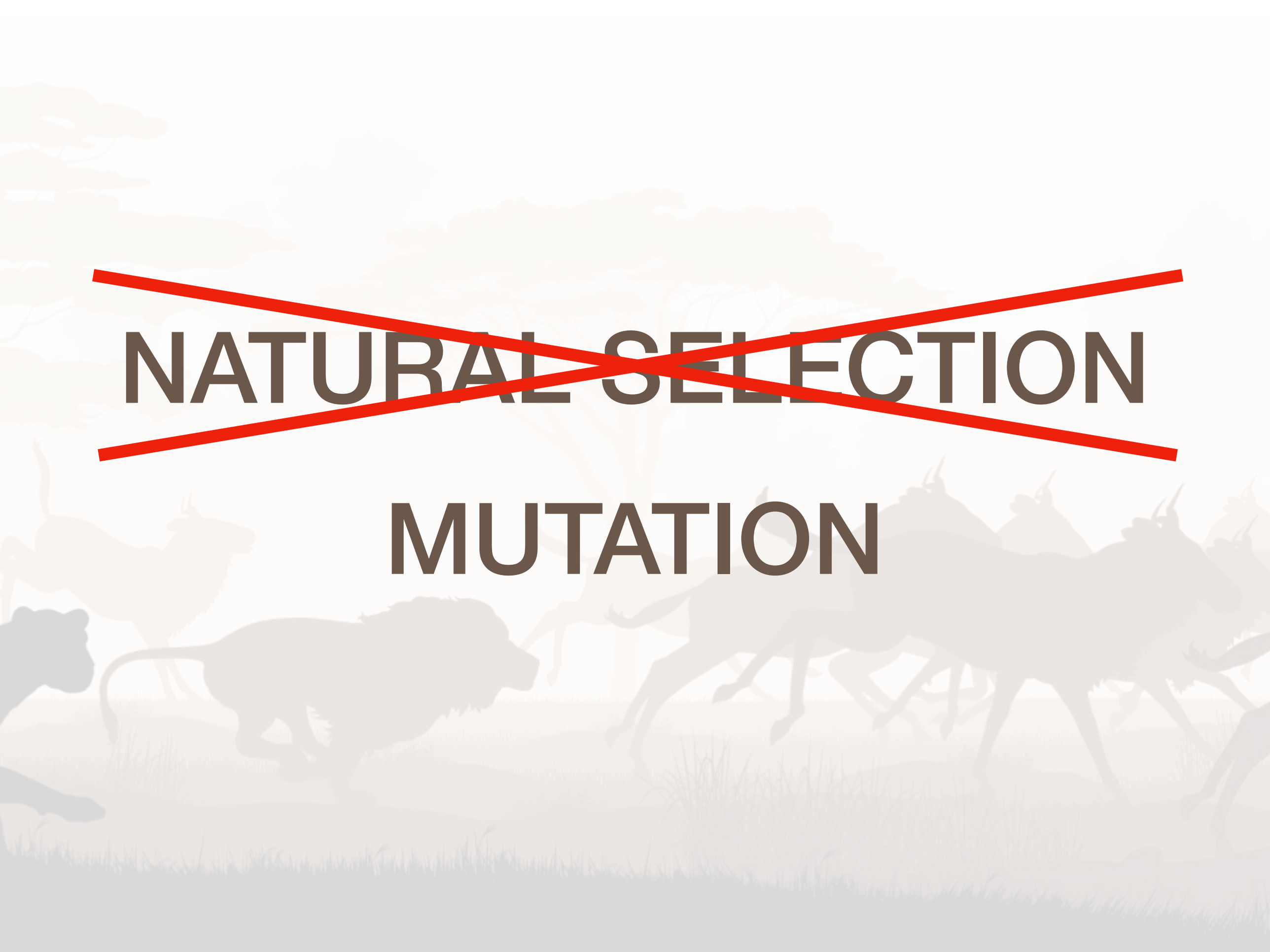
Diversity increase?

NO



~~NATURAL SELECTION~~

MUTATION



MUTATION

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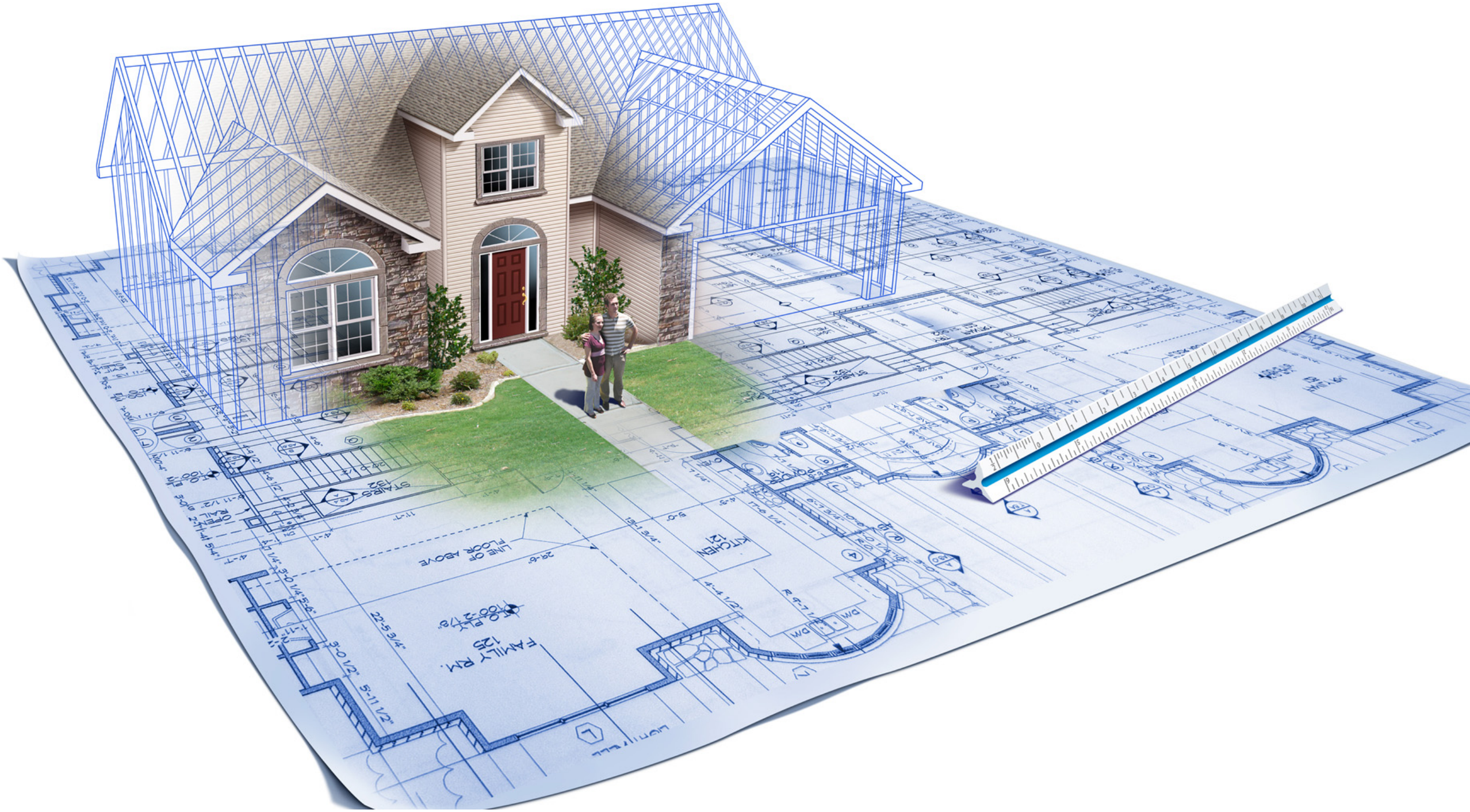


Tarta SELVA NEGRA

INGREDIENTES (4 personas)

- 150 g de harina
- 2 cucharadas de levadura
- 1 cucharada de café soluble
- 1 cucharada de cacao
- 6 huevos
- 150 g de azúcar *glacé*
- 1 cucharada de zumo de limón
- 75 g de chocolate rallado
- 1 cucharada de harina
- 1 cucharada de azúcar
- Mantequilla para engrasar

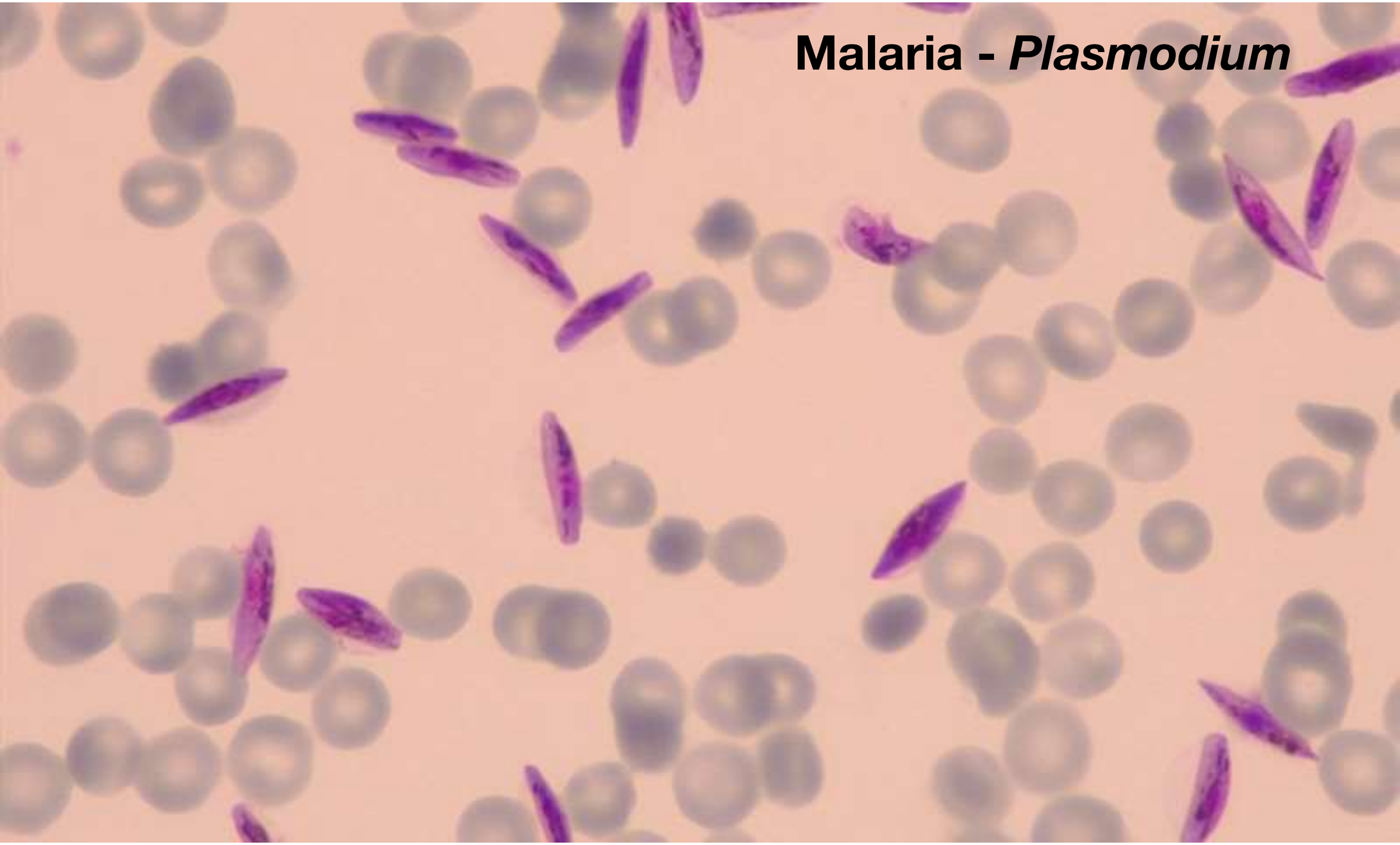
PARA EL RELLENO

- 1 tarro de cerezas negras
- 1 y 1/2 copas de *kirsch*
- 1/2 k de nata montada
- Viruta de chocolate

ELABORACIÓN

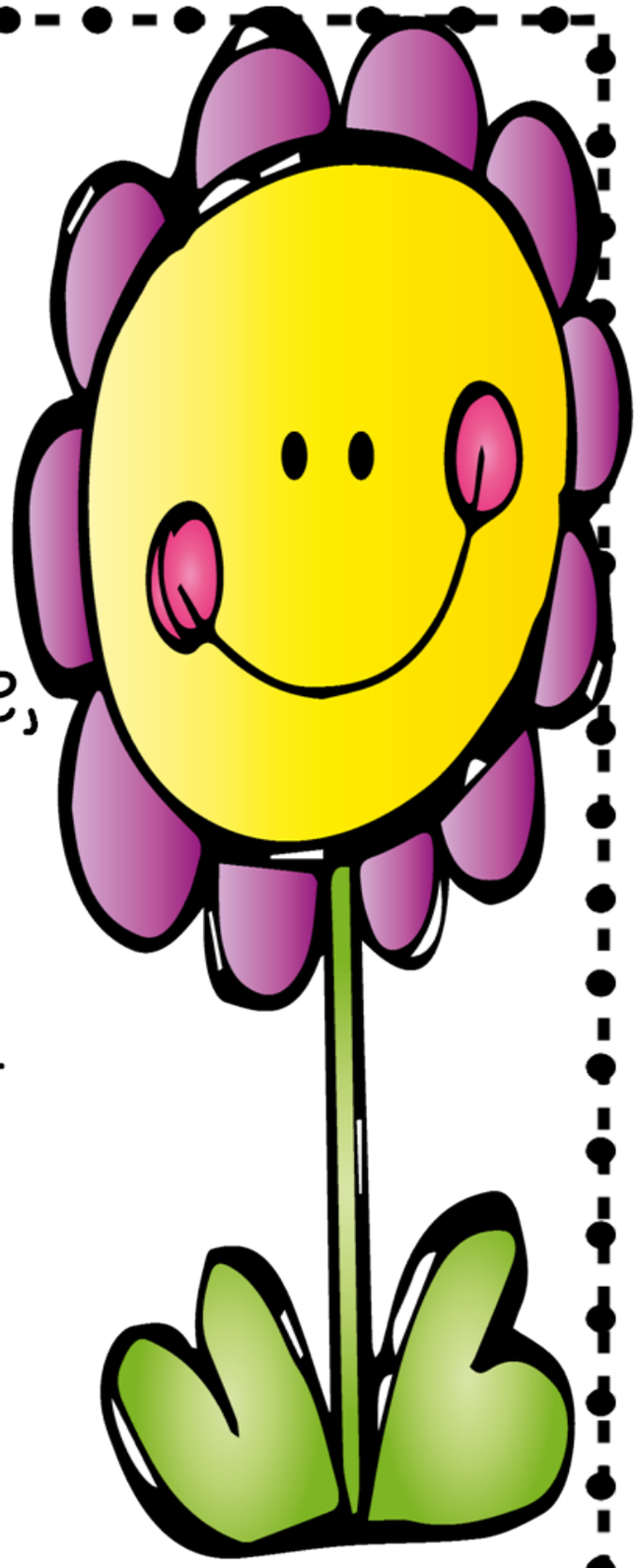
1. Untar de mantequilla 2 moldes redondos de 22 cm, forrar con papel albal, engrasar de nuevo y espolvorear con el azúcar y harina.
2. Tamizar la harina con el royal, café y cacao.
3. En un bol, batir las yemas con el azúcar, incorporar el zumo de limón y chocolate.
4. Batir las claras a punto de nieve.
5. Añadir a las yemas las claras poco a poco, alternando con la harina hasta que quede bien ligado.
6. Dividir la mezcla entre los moldes.
7. Cocer en el horno a 180ºC durante 20 min. Cuando estén templados desmoldar y dejar enfriar.
8. Escurrir las cerezas y mezclar el líquido con el *kirsch*.
9. Dividir en dos cada bizcocho. Colocar el primero y rociar con *kirsch*, cubrir con una capa de nata y cerezas. Repetir la operación hasta que se acabe el bizcocho.
10. Finalmente, cubrirlo todo con nata y adornar con la viruta de chocolate.

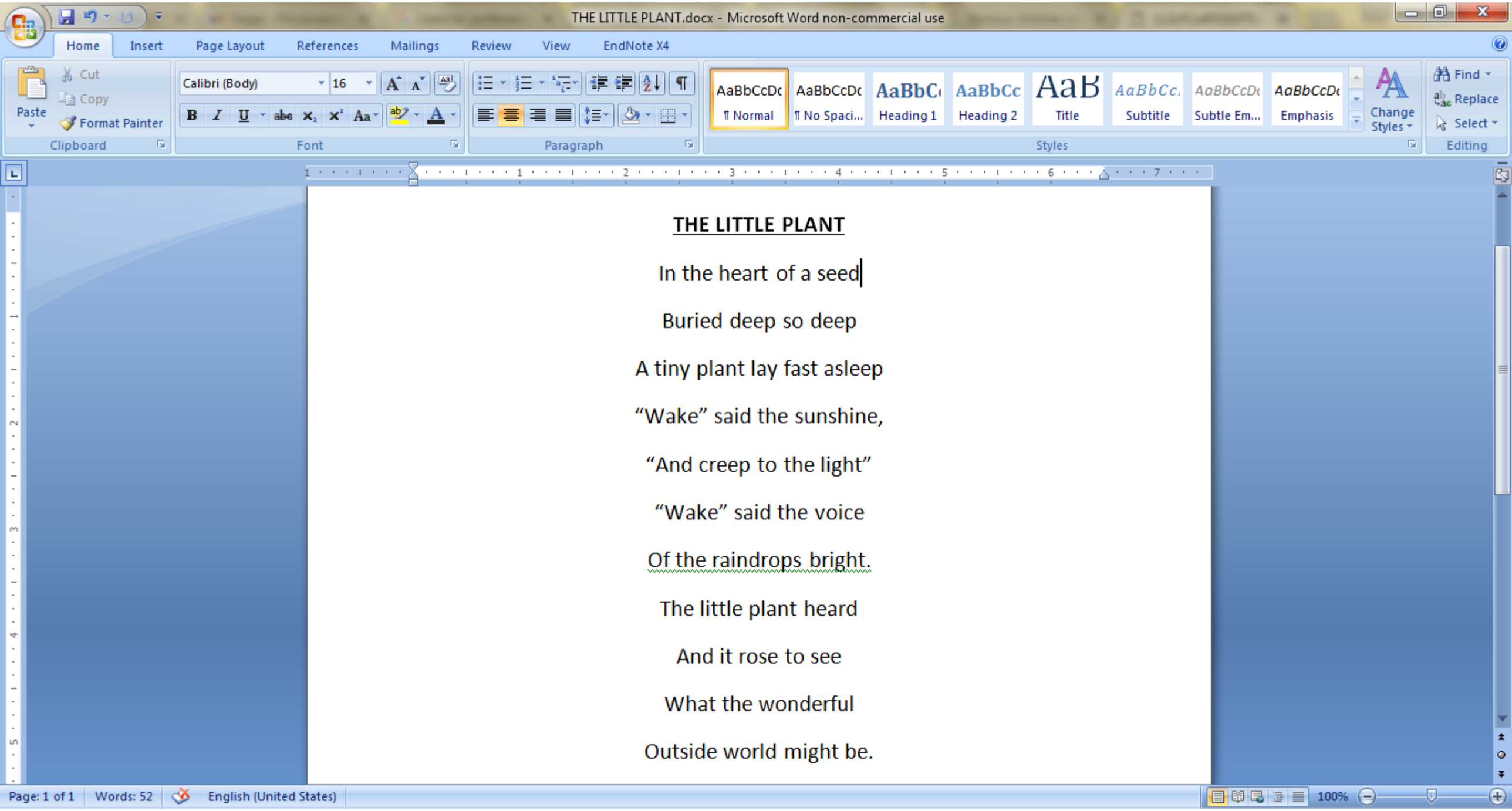
Sickle Cell Anemia


Malaria - *Plasmodium*

The Little Plant

In the heart of a seed,
Buried deep so deep,
A tiny plant
Lay fast asleep.
"Wake," said the sunshine,
"And creep to the light."
"Wake," said the voice
Of the raindrops bright.
The little plant heard
And it rose to see,
What the wonderful,
Outside world might be.

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Heading 2
Title
Subtitle
Subtle Em...
Emphasis
Change Styles
Styles
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Replace
Select
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Page: 1 of 1
Words: 52
English (United States)
100%

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Hamlet. To be, or not to be- that is the question:
Whether 'tis nobler in the mind to suffer
The slings and arrows of outrageous fortune
Or to take arms against a sea of troubles,
And by opposing end them. To die- to sleep-
No more; and by a sleep to say we end
The heartache, and the thousand natural shocks
That flesh is heir to. 'Tis a consummation
Devoutly to be wish'd. To die- to sleep.
To sleep- perchance to dream: ay, there's the rub!
For in that sleep of death what dreams may come
When we have shuffled off this mortal coil,
Must give us pause. There's the respect
That makes calamity of so long life.
For who would bear the whips and scorns of time,
Th' oppressor's wrong, the proud man's contumely,
The pangs of despis'd love, the law's delay,
The insolence of office, and the spurns
That patient merit of th' unworthy takes,
When he himself might his quietus make
With a bare bodkin? Who would these fardels bear,
To grunt and sweat under a weary life,
But that the dread of something after death-
The undiscover'd country, from whose bourn
No traveller returns- puzzles the will,
And makes us rather bear those ills we have
Than fly to others that we know not of?
Thus conscience does make cowards of us all,
And thus the native hue of resolution

Page: 1 of 1 | Words: 285 | English (United States) | 100%

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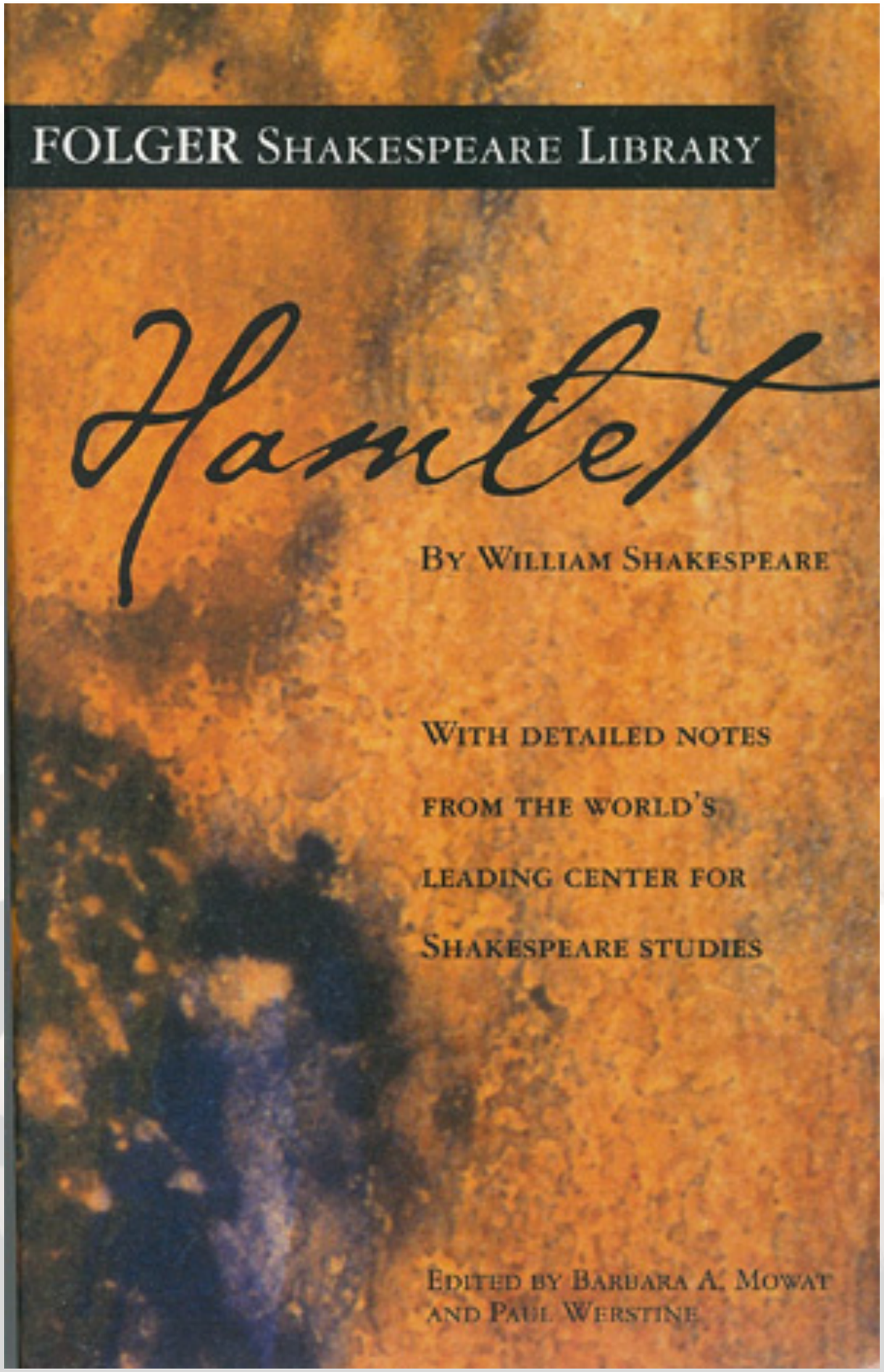
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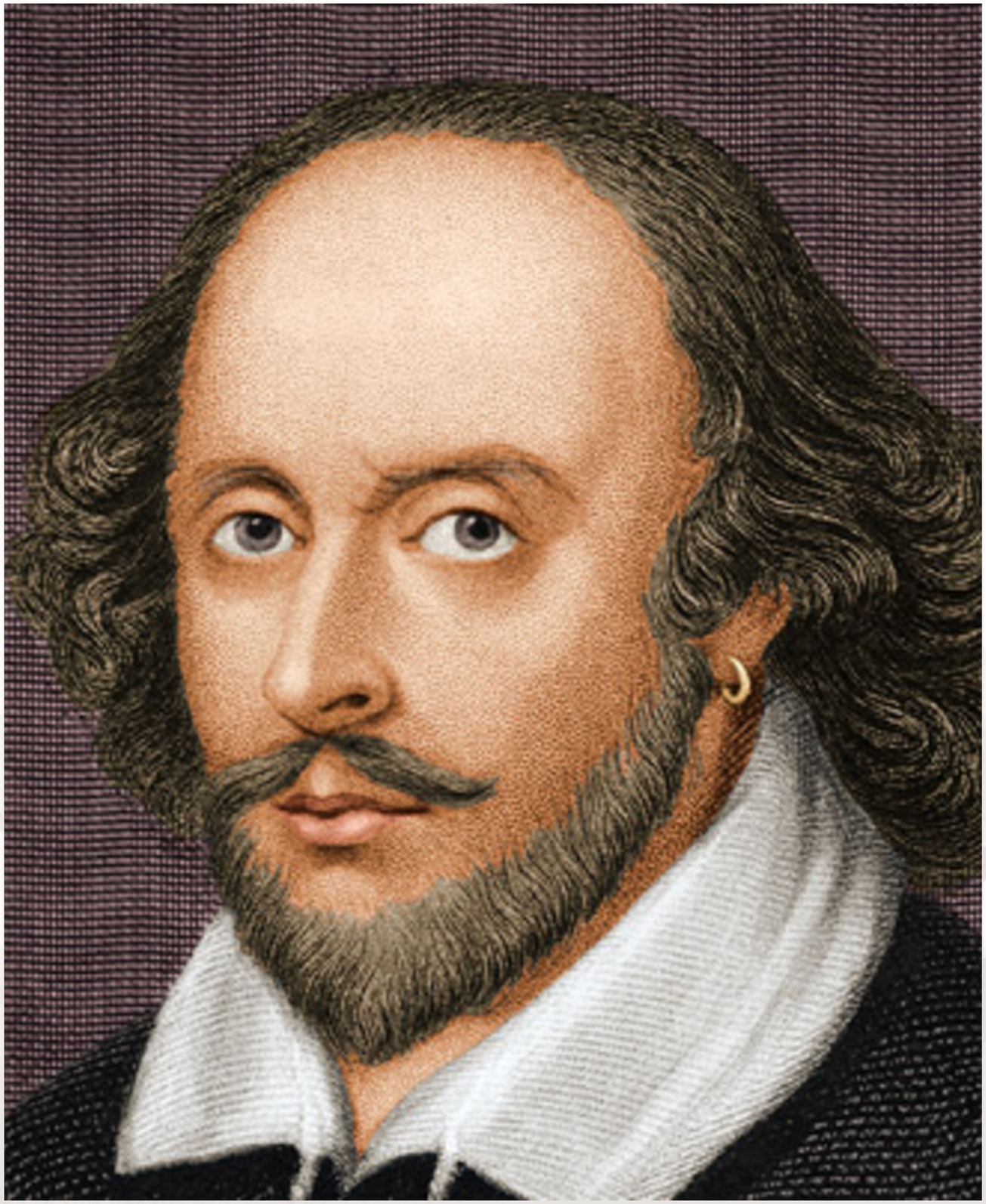
Hamlet
BY WILLIAM SHAKESPEARE
WITH DETAILED NOTES
FROM THE WORLD'S
LEADING CENTER FOR
SHAKESPEARE STUDIES
EDITED BY BARBARA A. MOWAT
AND PAUL WERSTINE



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Common skills gained from an aeronautical engineering degree include:

- High proficiency in research methodology, experiments and data collection
- Excellent analytical and logical-thinking skills
- Excellent knowledge of mathematics and physics
- Interdisciplinary skills, including expertise in mechanics and

NATURE | COMMENT

Does evolutionary theory need a rethink?

Kevin Laland, Tobias Uller, Marc Feldman, Kim Sterelny, Gerd B. Müller, Armin Moczek, Eva Jablonka, John Odling-Smee, Gregory A. Wray, Hopi E. Hoekstra, Douglas J. Futuyma, Richard E. Lenski, Trudy F. C. Mackay, Dolph Schluter & Joan E. Strassmann

08 October 2014

Researchers are divided over what processes should be considered fundamental.

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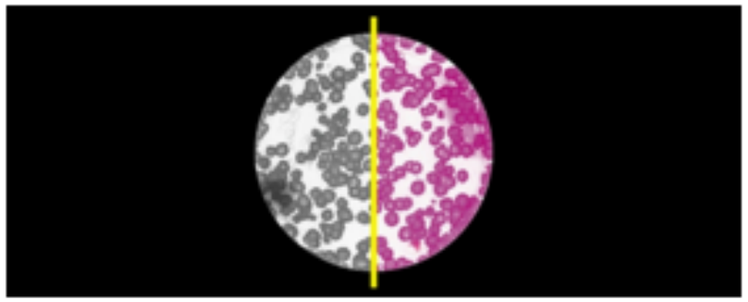
Subject terms: Evolution • Developmental biology • Philosophy

Fetal tissue



The truth about fetal tissue research

The use of aborted fetal tissue has sparked controversy in the United States, but many scientists say it is essential for studies of HIV, development and more.

Like Share Eric Gren and 223,142 others like this.

In the
beginning
GOD
CREATED
the HEAVENS
&
the EARTH

GENESIS 1:1

MICROEVOLUTION

Change in the genetic make up of a population through generations

80%

20%

PLATE 41
1
2
3
4
5
6
7

CONCLUSIONS

- Natural selection does not increase diversity or complexity. Thus, it cannot be responsible of the origin of biodiversity.
- Mutations are random mistakes in the DNA sequence, which are rarely beneficial and never add significant information.
- Mutation and natural selection cannot create new organs or change the body pattern of an organism, not even in billions of years.
- Creationists do not believe in the fixity of species. We believe animals and plants have suffered small changes since they were created. Mutation and natural selection may have caused some of these changes but other processes, such as epigenetic could have been involved.