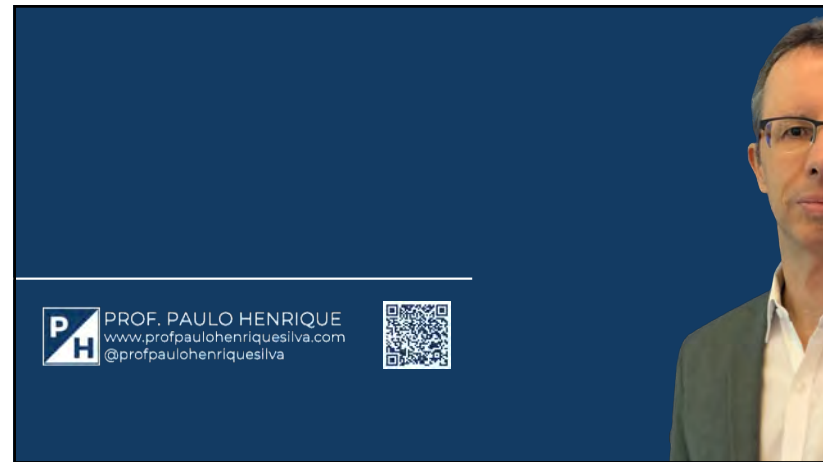


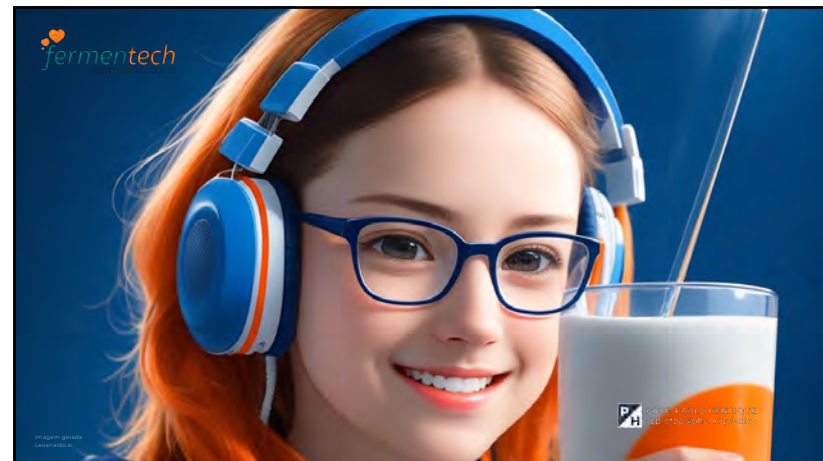
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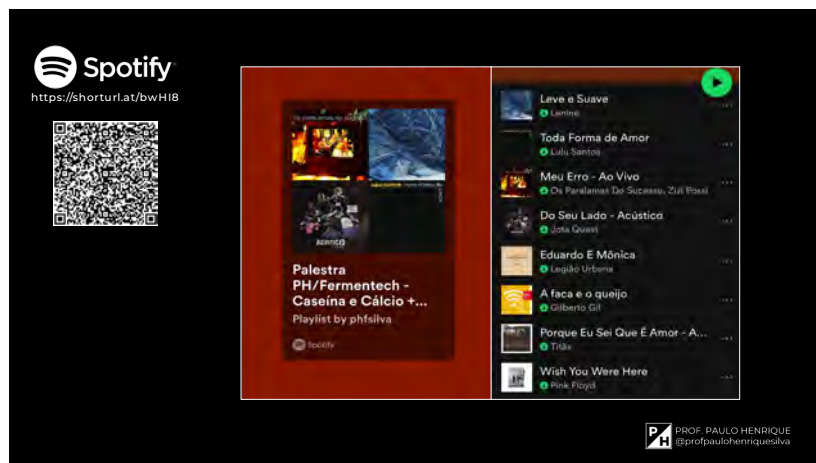
2



3



4



Spotify
https://shorturl.at/bwH18

QR code

Palestra PH/Fermentech - Caseína e Cálcio +...
Playlist by phsilva

- Leve e Suave - Lenine
- Toda Forma de Amor - Lulu Santos
- Meu Erro - Ao Vivo - Di Paralamas Do Sucesso, Zilá Bonfá
- Do Seu Lado - Acústica - Jota Quest
- Eduardo E Mônica - Legião Urbana
- A faca e o queijo - Gilberto Gil
- Porque Eu Sei Que E Amor - A... - Trilão
- Wish You Were Here - Pink Floyd

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5

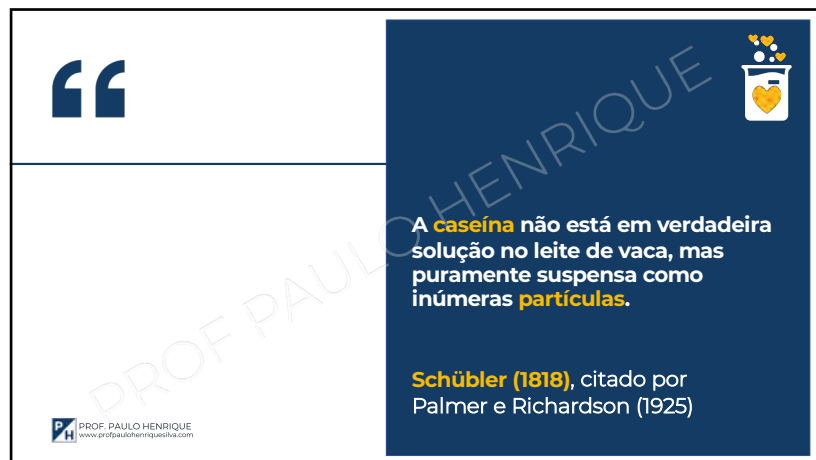


Há muito tempo
Em uma galáxia muito, muito distante
Star Wars

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6



“

A **caseína** não está em verdadeira solução no leite de vaca, mas puramente suspensa como inúmeras **partículas**.

Schübler (1818), citado por Palmer e Richardson (1925)

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7



Meu sangue ferve contra a vão razão
E pulsa seu amor na escuridão!

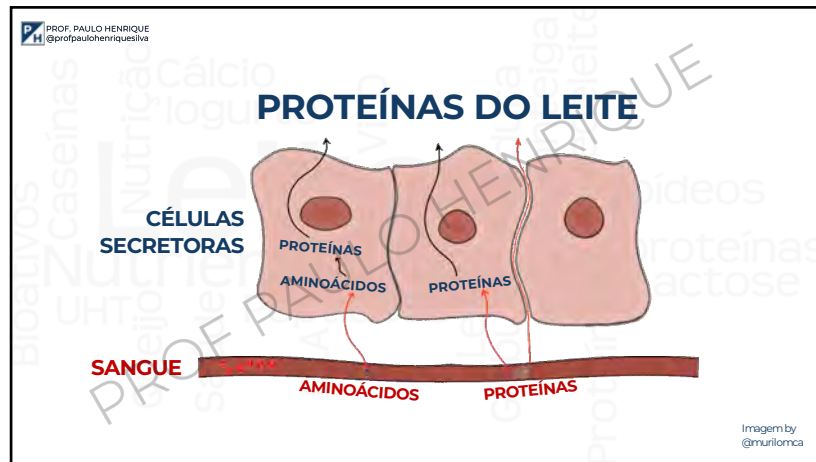
Ariano Suassuna

O início do relacionamento

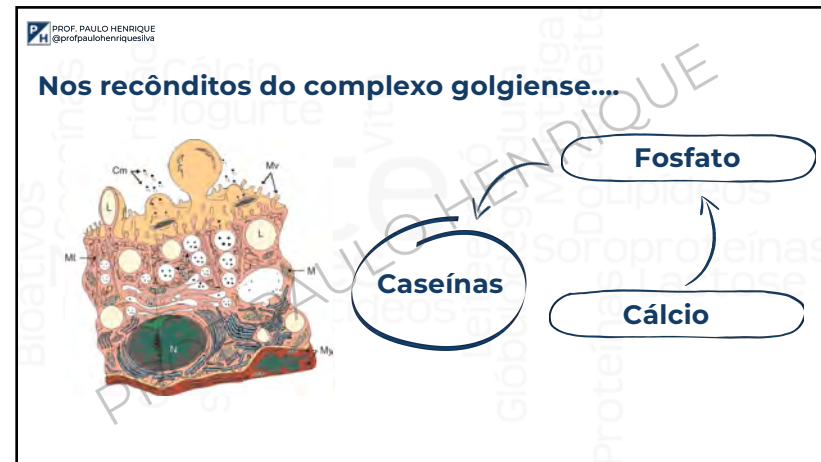
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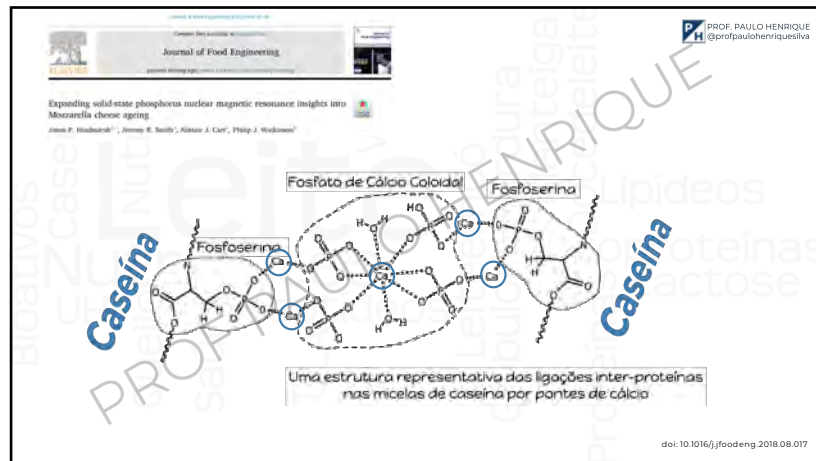
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9



10



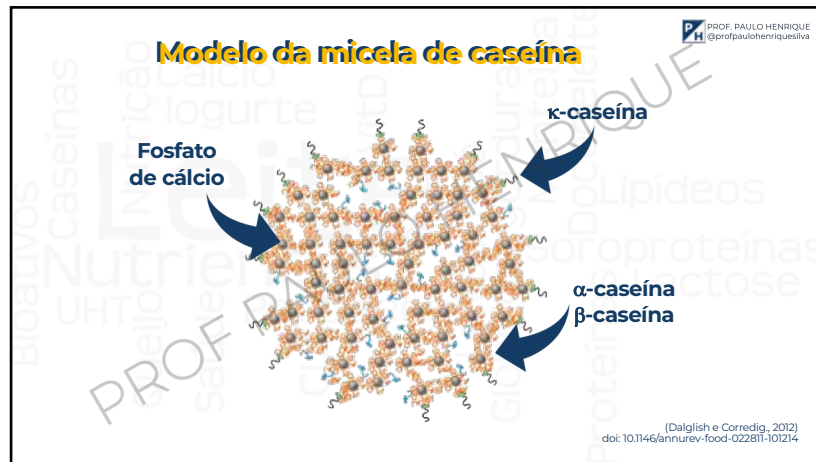
11

E a gente vive junto
E a gente se dá bem
Lulu Santos

O relacionamento toma forma...

Logo: Milk carton with a heart

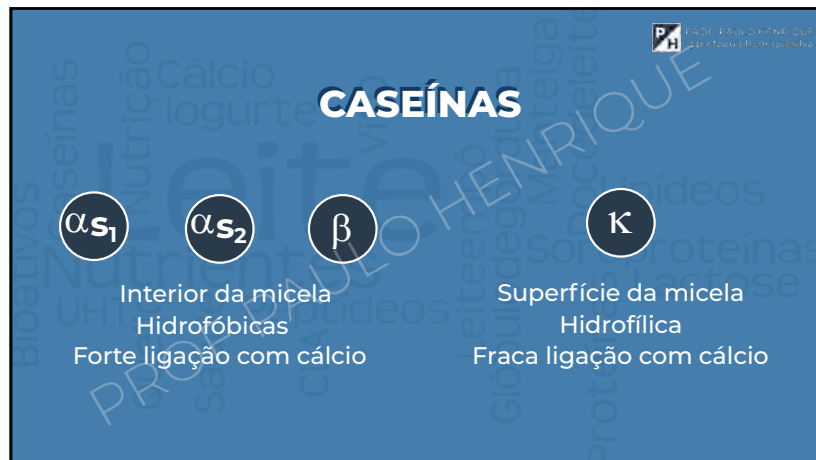
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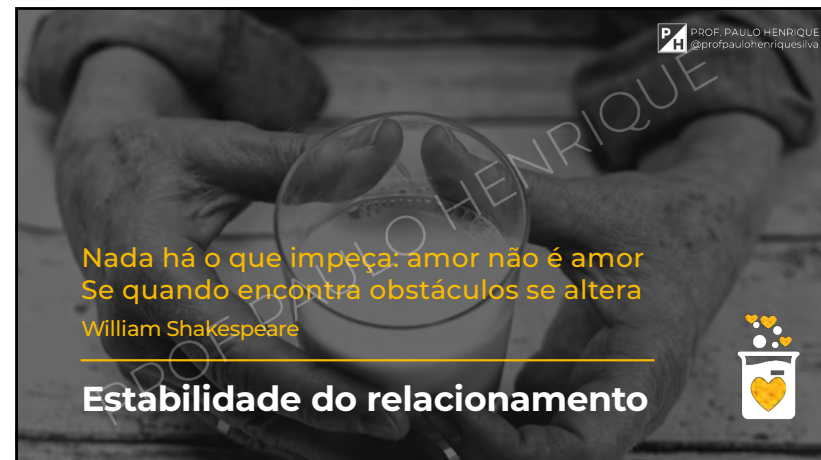
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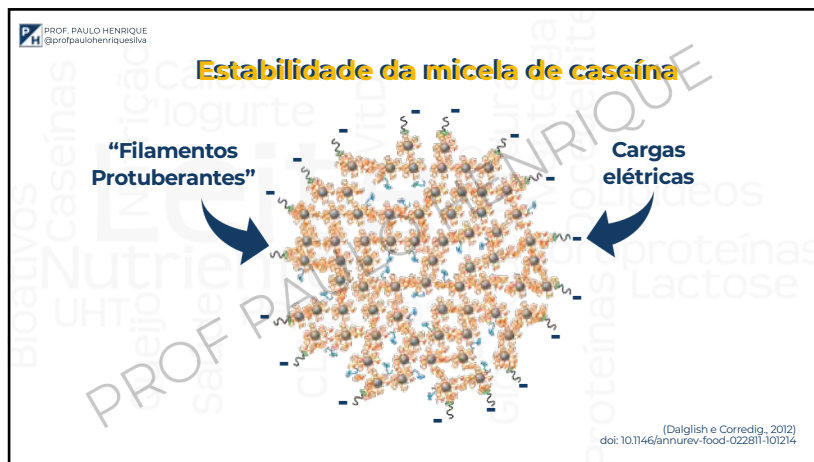
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15



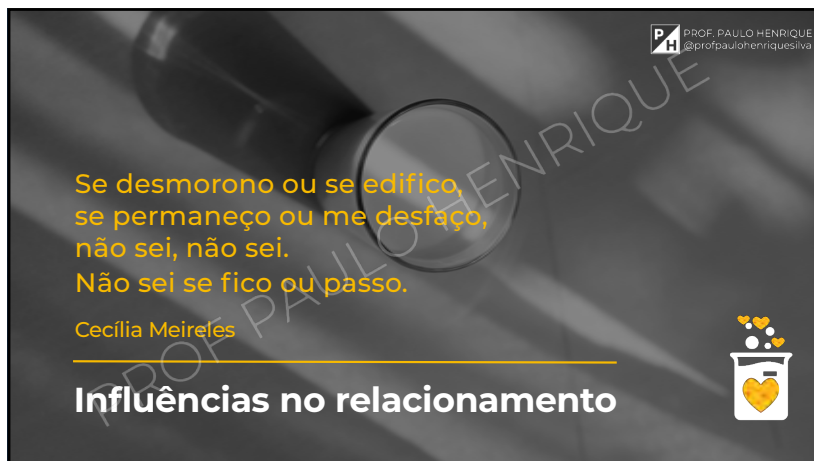
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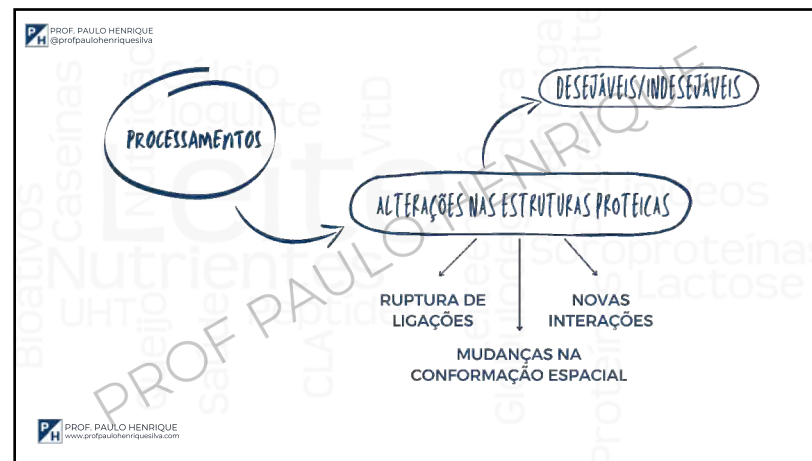
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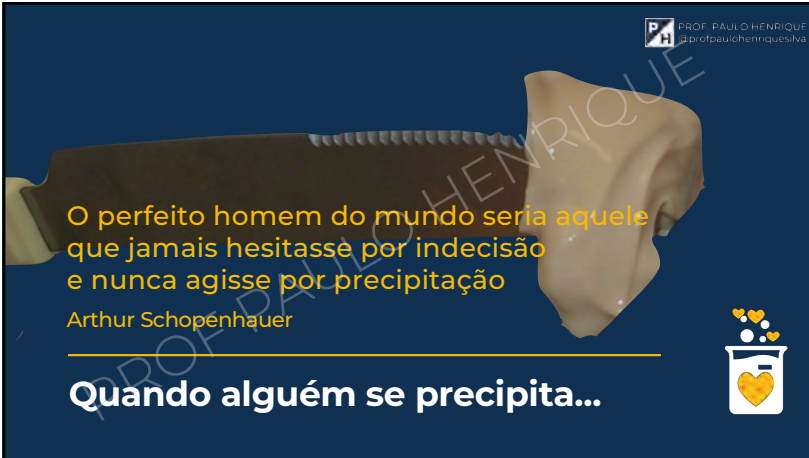
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19



20




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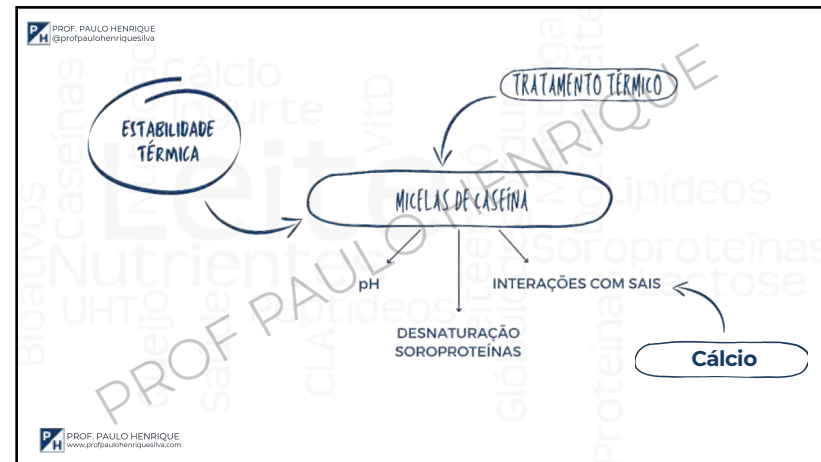
O perfeito homem do mundo seria aquele que jamais hesitasse por indecisão e nunca agisse por precipitação

Arthur Schopenhauer

Quando alguém se precipita...



21



22



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Eu dizia o seu nome
Não me abandone jamais

Paralamas

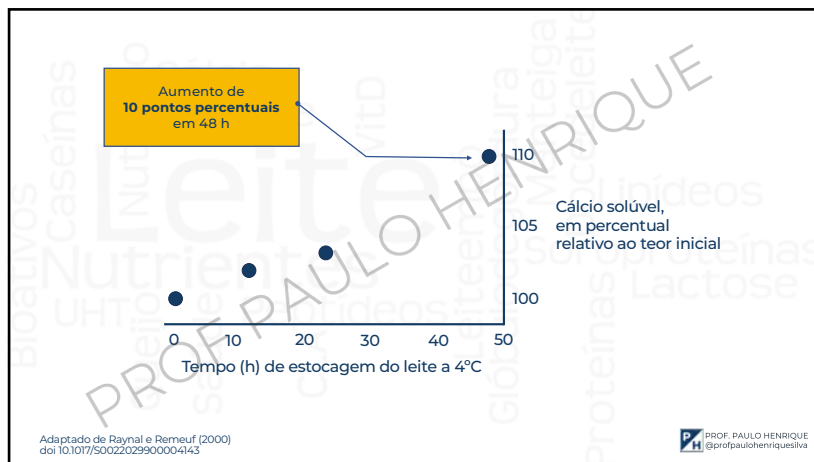
Quando o relacionamento esfria



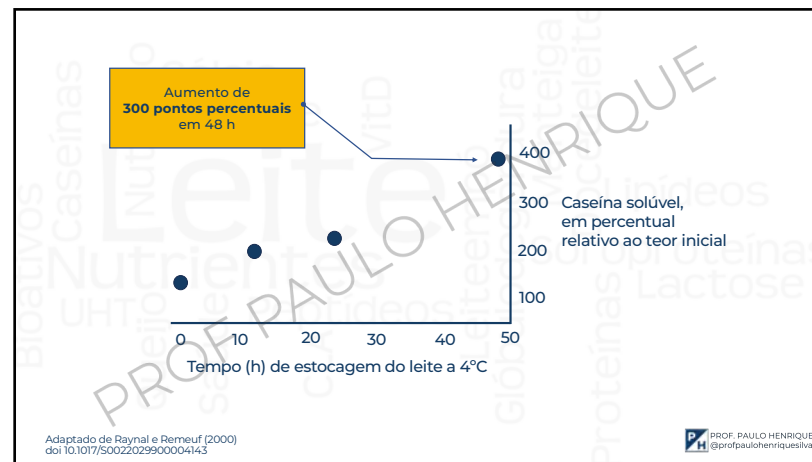
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24



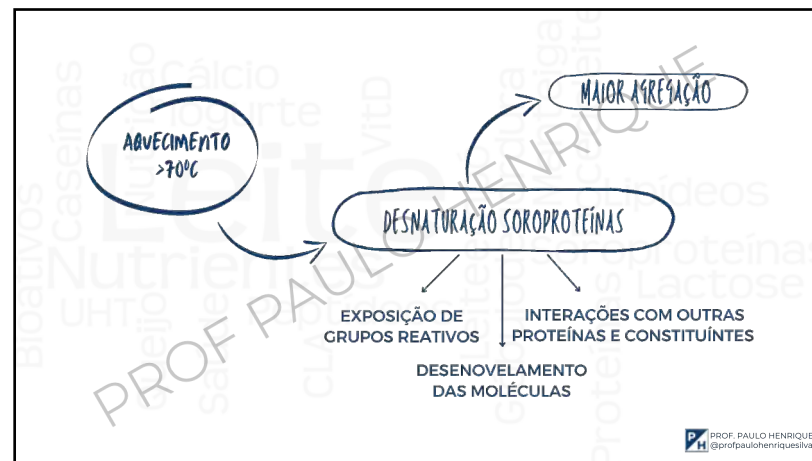
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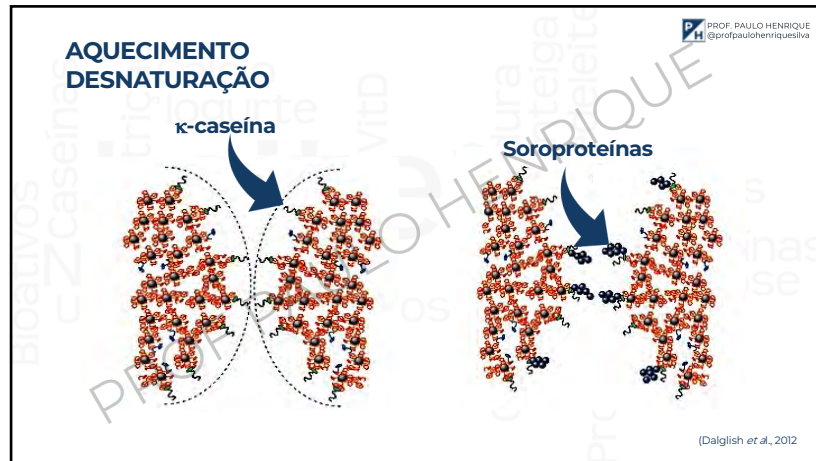
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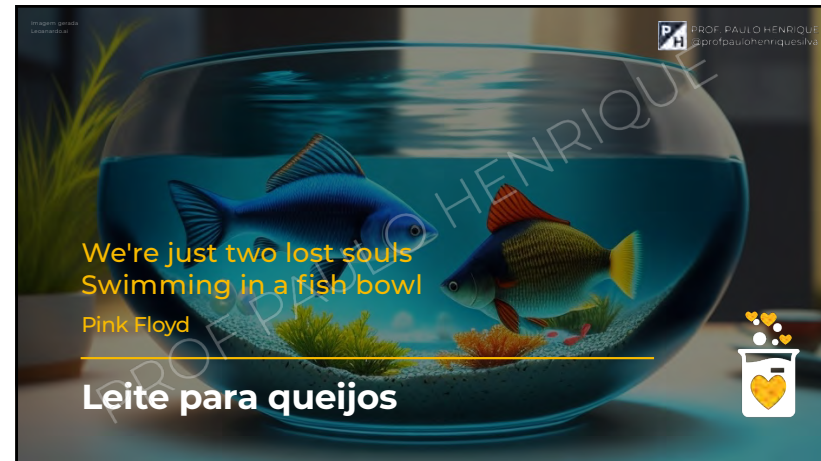
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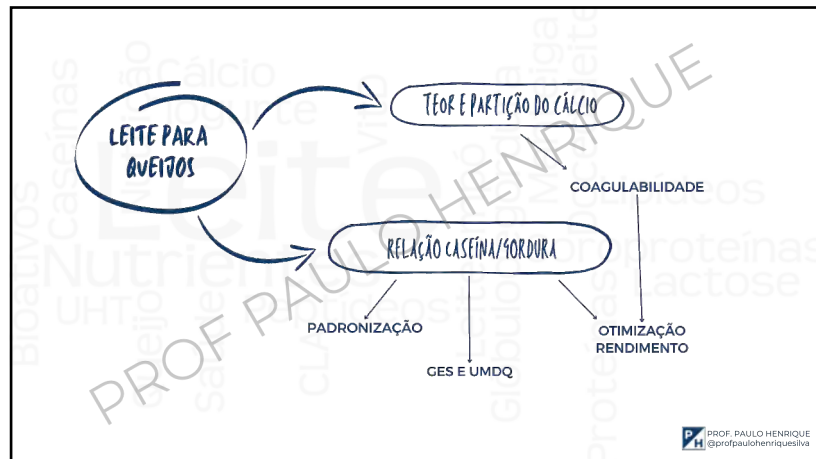
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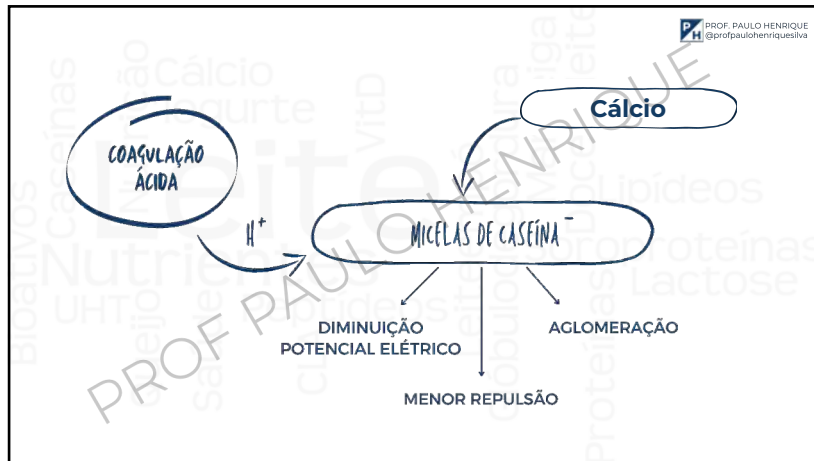
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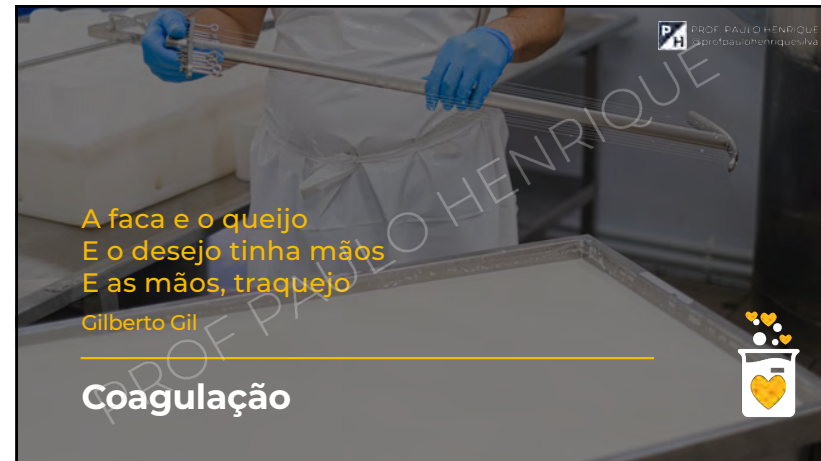
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32



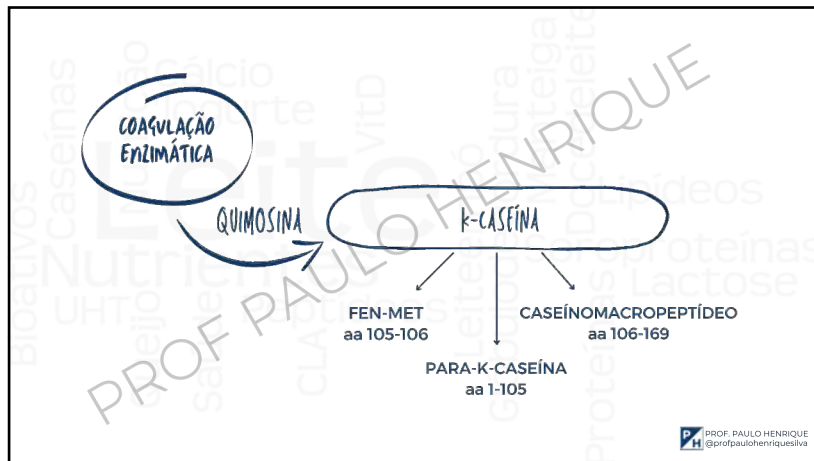
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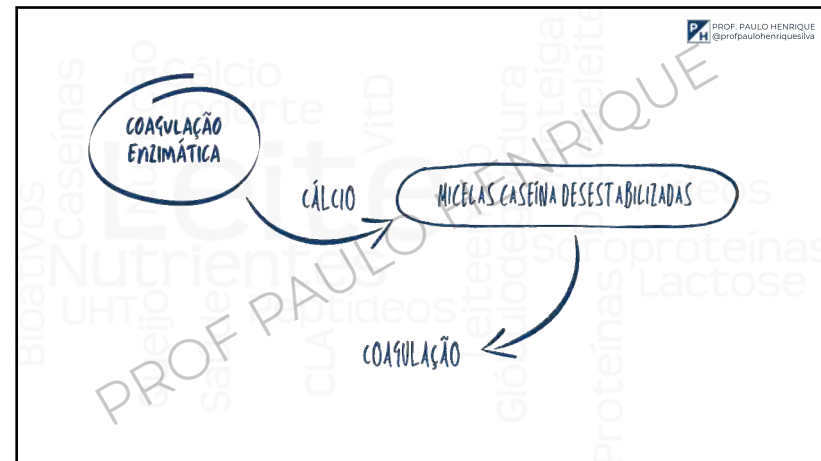
A faca e o queijo
E o desejo tinha mãos
E as mãos, traquejo
Gilberto Gil

Coagulação

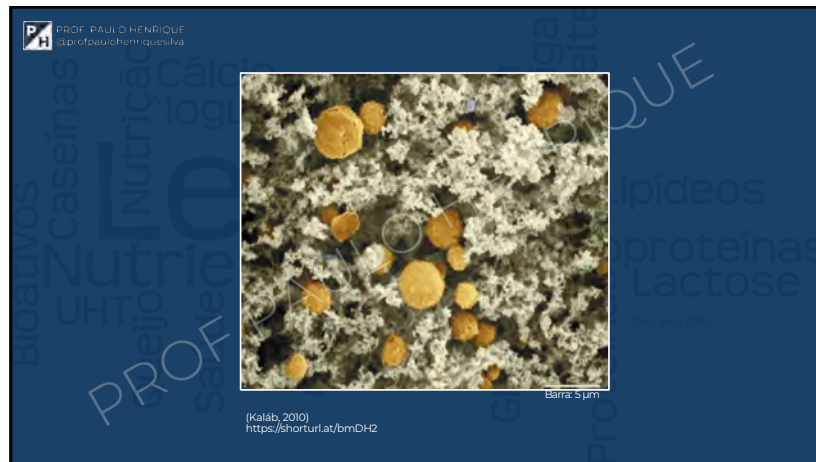
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35



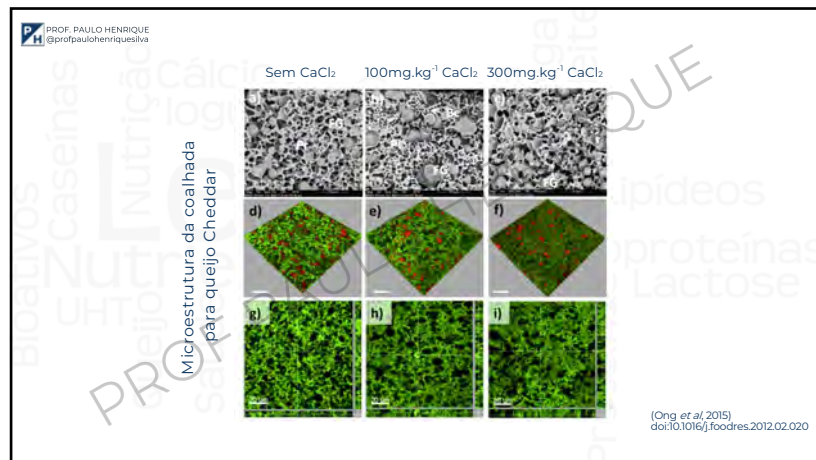
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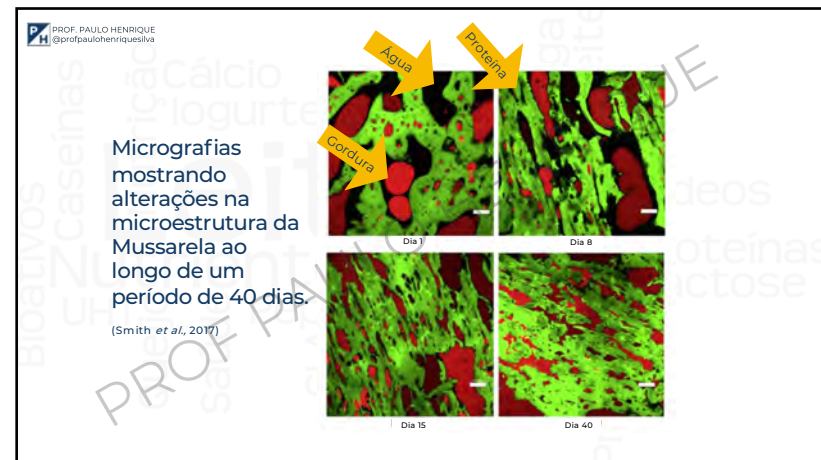
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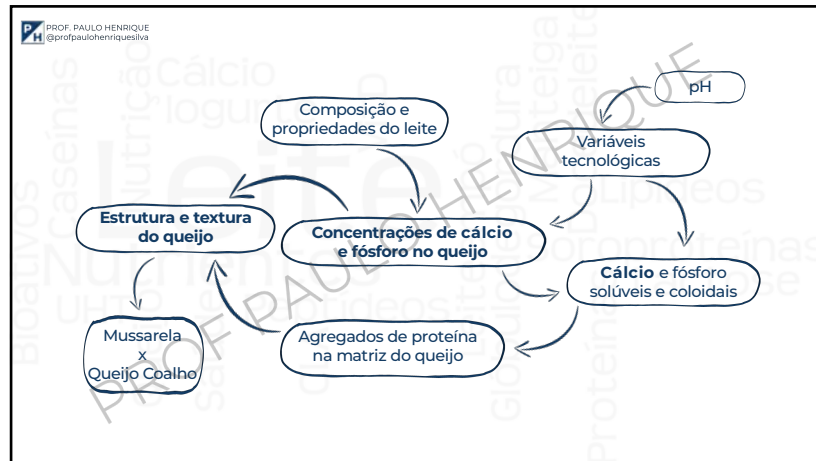
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39



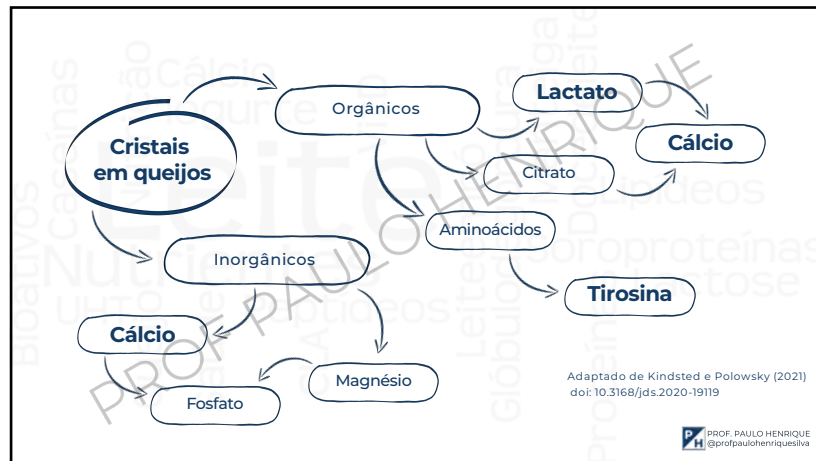
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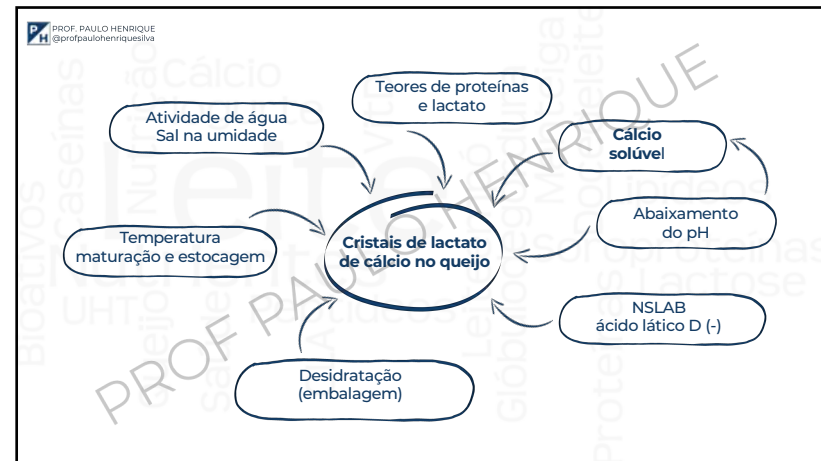
41



42



43



44

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The Wonderful World of Cheese Crystals

A variety of crystal types exist across the wide spectrum of cheeses in the marketplace. The most prevalent crystals can come about from minerals such as calcium and magnesium, and amino acids such as tyrosine and leucine.

CALCIUM LACTATE

The white secondary amorphous found on many aged cheeses are crystals of the compound calcium lactate. Calcium lactate is formed as the cheese ages when lactic acid reacts with calcium in the cheese. They don't have any flavor themselves, but usually signify a piece of well-aged cheese that will be flavorful.

calcium lactate
Ca^{2+} C_2H_5O_2

TYROSINE & LEUCINE

The crystals found in aged feta, Cheddar, and Swiss cheese varieties are usually the amino acids tyrosine and/or leucine (secondary amine diffuse spots). These are formed as the cheese ages when the amino acids break apart its constituent amino acids. They can build up to high concentrations and crystallize out.

tyrosine
C_9H_9NO_3
leucine
C_6H_13NO_2

CALCIUM PHOSPHATE

Calcium and phosphorus are ubiquitous minerals in milk and cheese. Under the correct acidity conditions, these minerals can crystallize. Brushite, a form of calcium phosphate, has been observed in many aged cheeses such as feta and camembert, aged cheddars, and blue cheeses to name a few.

brushite formula
CaHPO_4 \cdot 2H_2O

IKAITE & STRUVITE

The gritty sensation associated with washed rind cheese is caused by crystals. Ikaite is a calcium carbonate crystal, and struvite is a magnesium ammonium phosphate crystal. The mineral components are dependent on milk cheese. The carbonate and ammonium is derived from the acid created by the surface microbes.

ikaite formula
CaCO_3 \cdot nH_2O
struvite formula
MgNH_4PO_4 \cdot 6H_2O

https://www.uvm.edu/~pkindste/cheese_crystals/

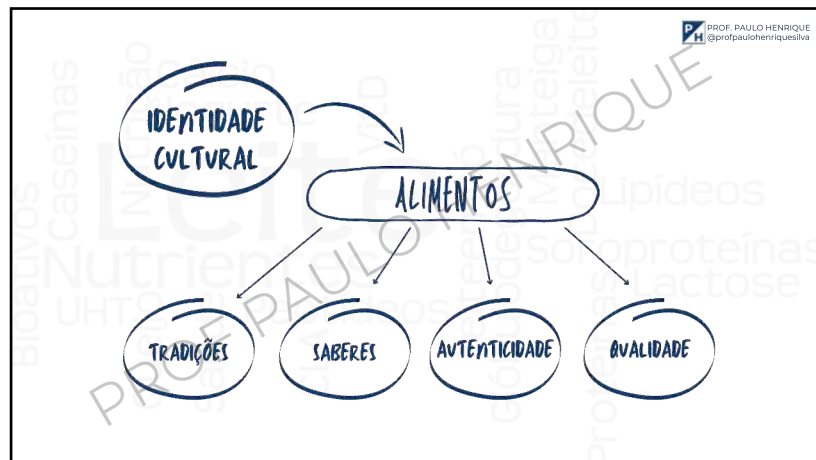
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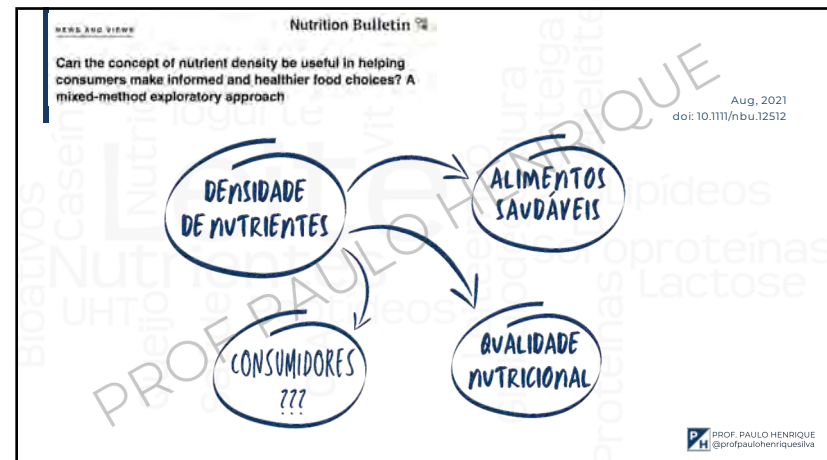
Ser mineiro é vender queijos
Ser Mineiro é dizer "uai"
Drummond

Sempre nutrindo o relacionamento

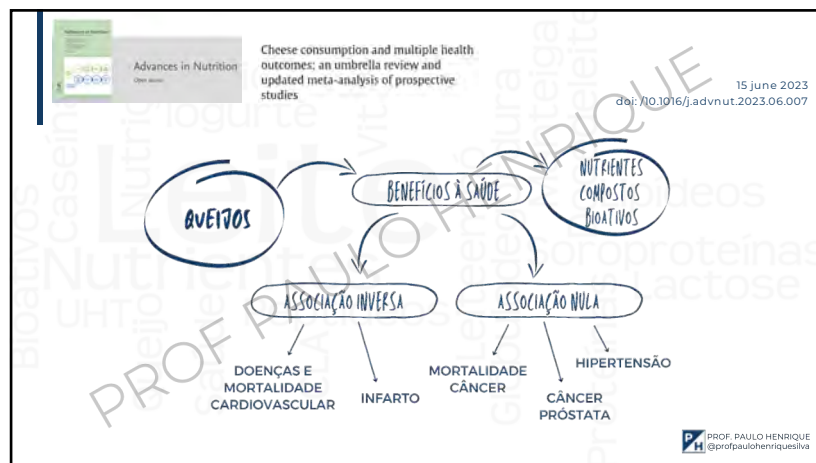
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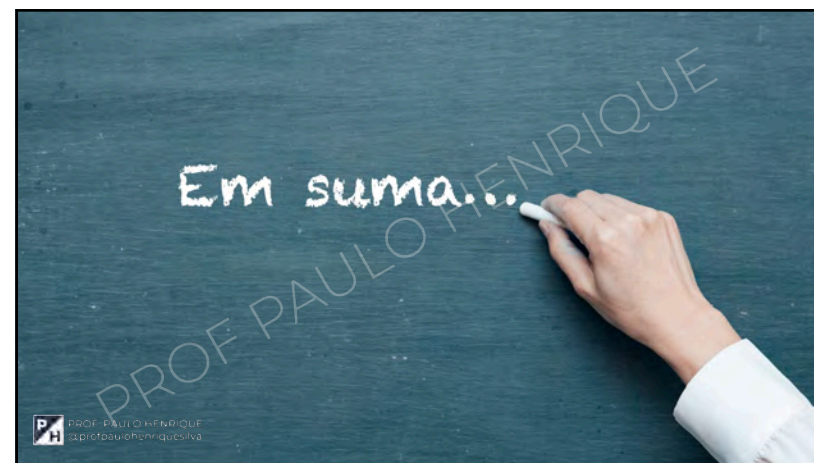
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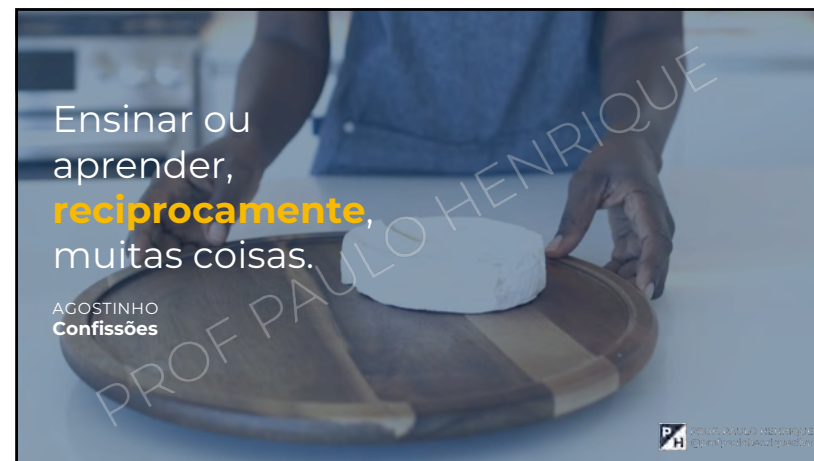
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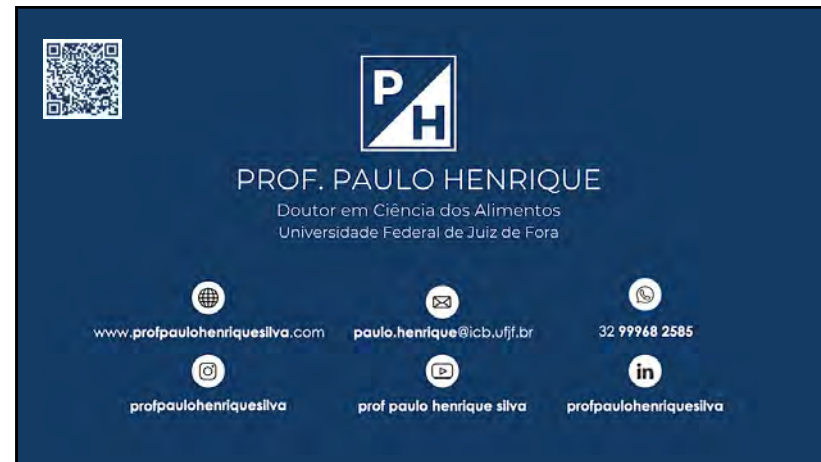
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53



54



55