

Speaking for the Death: an exciting journey !

Clément martin

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Our Journey !

Stop 1 : Smell of death: perfume you never forget

Stop 2 : Cadaver dogs and the Deathly Hallows

Stop 3 : Inside the grave

Final stop : Cruise on the styx



Smell of death:
A perfume you will never forget



Smell of death: A perfume you will never forget

Characterisation of the smell of decaying people



Smell of death: A perfume you will never forget

Smell of death: A perfume you will never forget



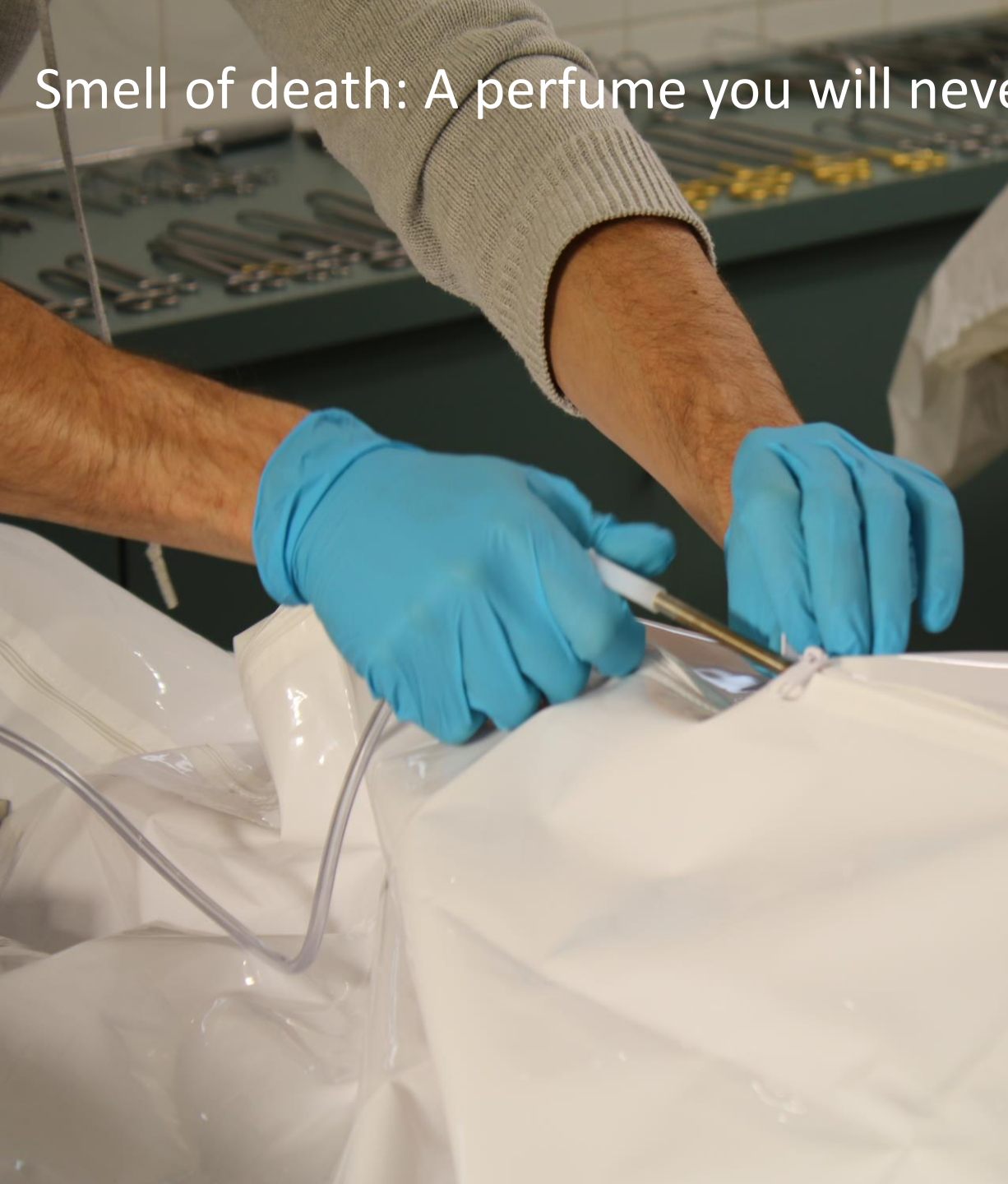
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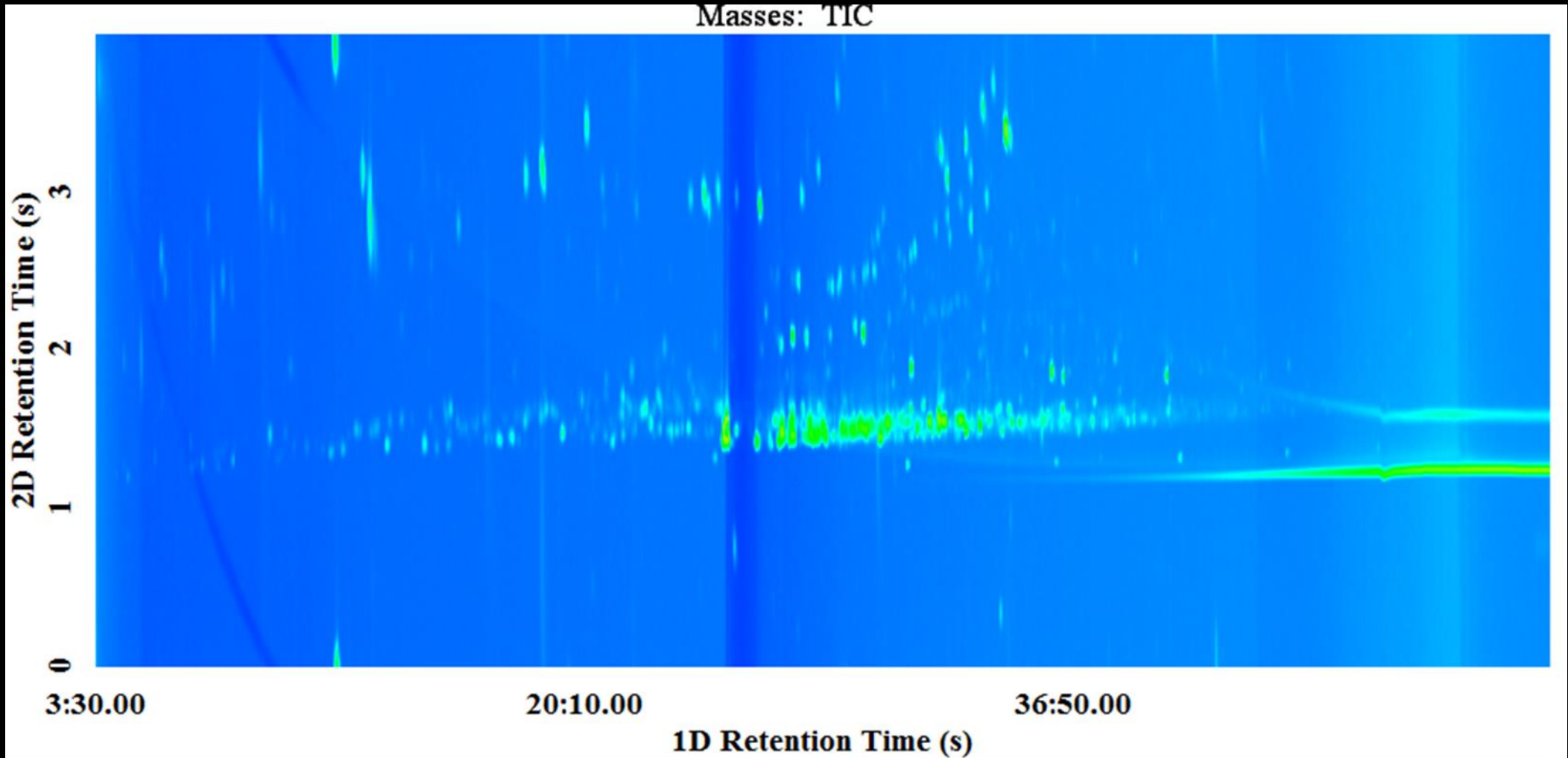
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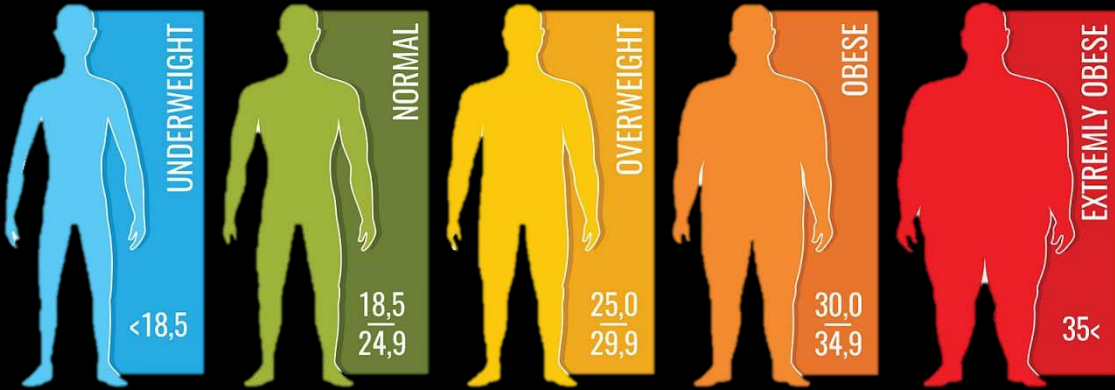
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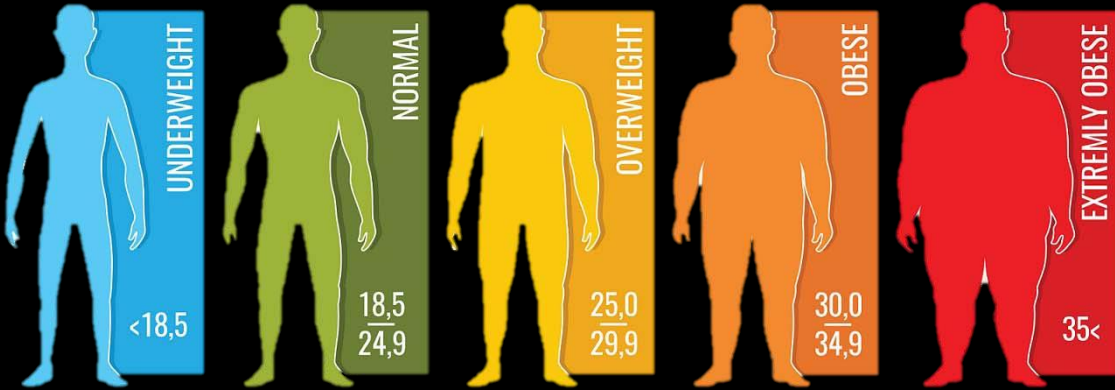
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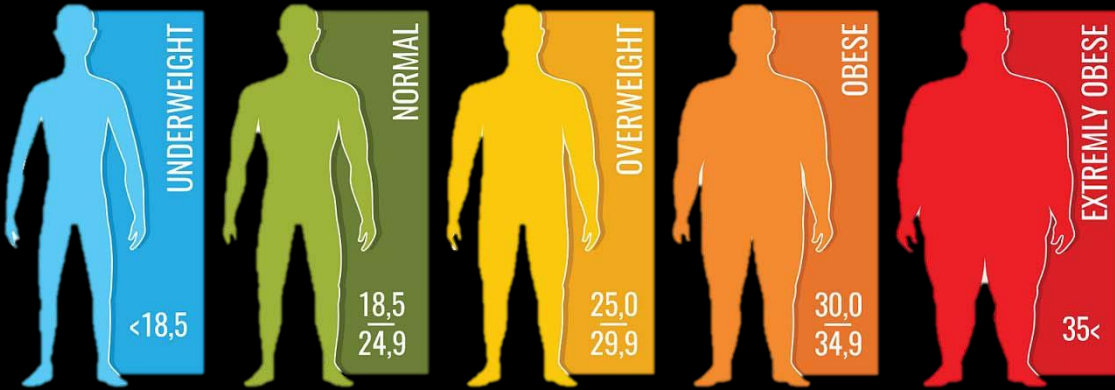
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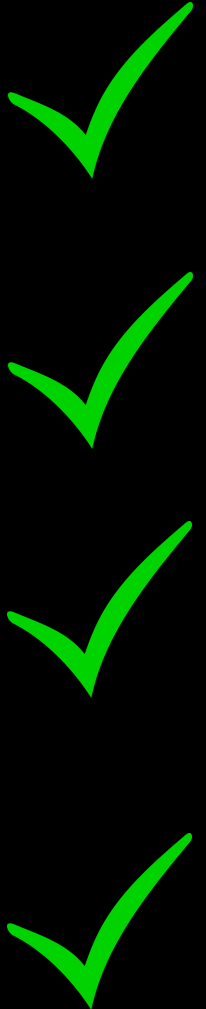
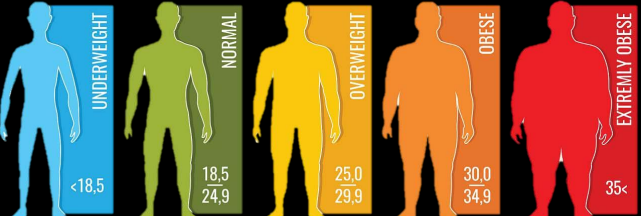
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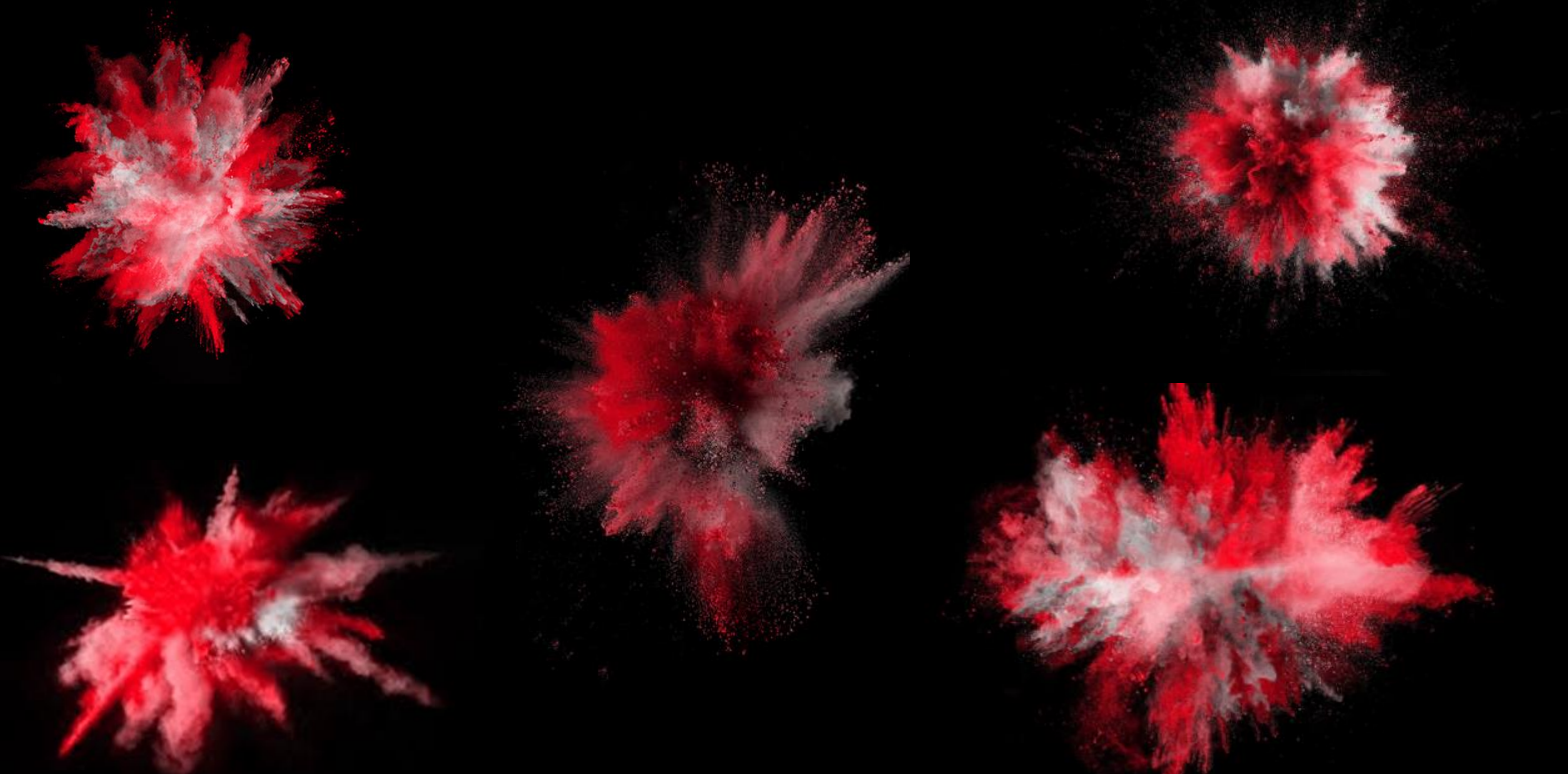
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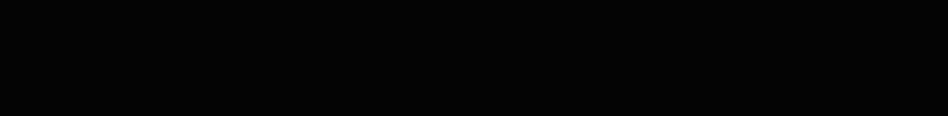
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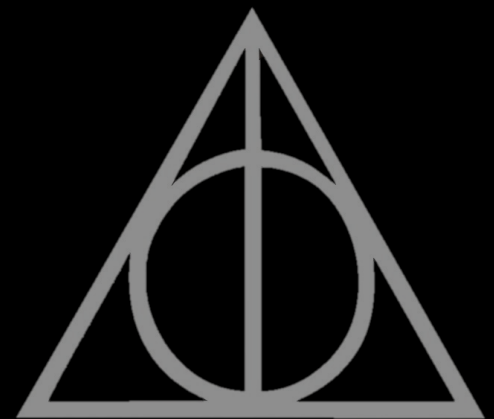
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Smell of death: A perfume you will never forget



Cadaver dogs and the deathly hallows



Cadaver dogs and the deathly hallows



Selection

Cadaver dogs and the deathly hallows



Anatomical
traits

Selection

Cadaver dogs and the deathly hallows



Cadaver dogs and the deathly hallows



Cadaver dogs and the deathly hallows



training

Cadaver dogs and the deathly hallows



Methods

training

Cadaver dogs and the deathly hallows



Methods

Aids

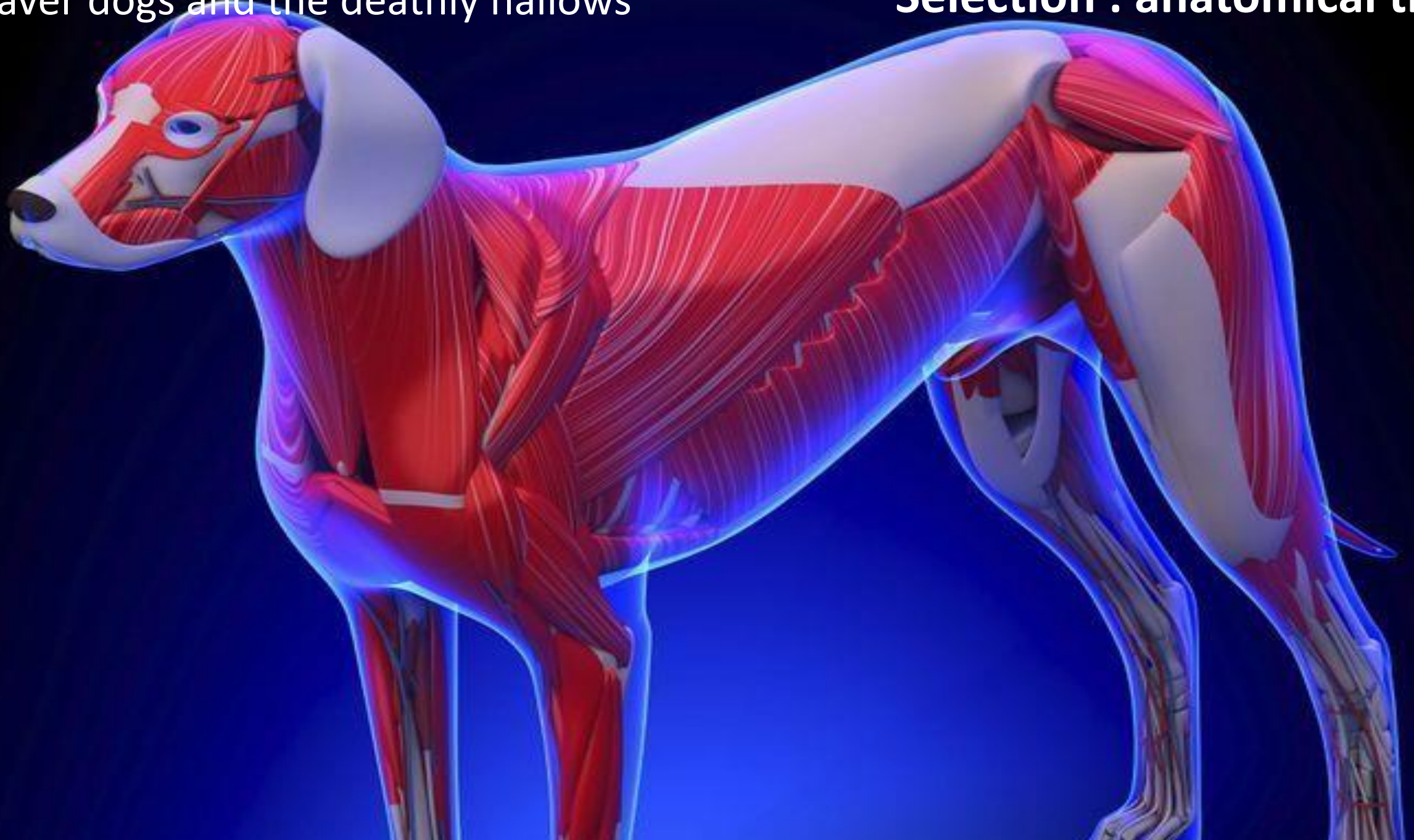
training

Cadaver dogs and the deathly hallows



Cadaver dogs and the deathly hallows

Selection : anatomical traits



Cadaver dogs and the deathly hallows

Size ?



Cadaver dogs and the deathly hallows

Size ?

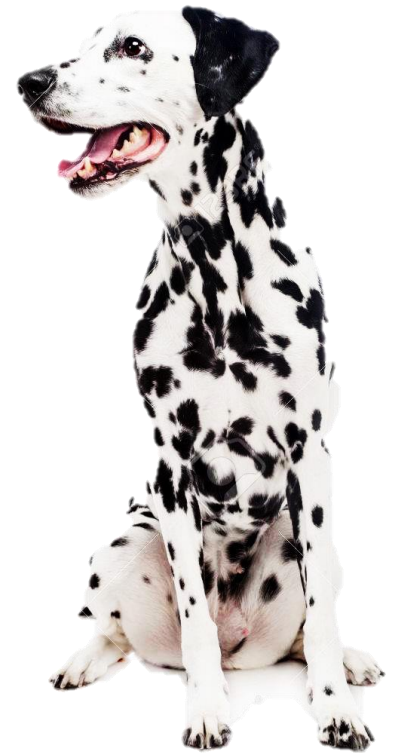


Cadaver dogs and the deathly hallows

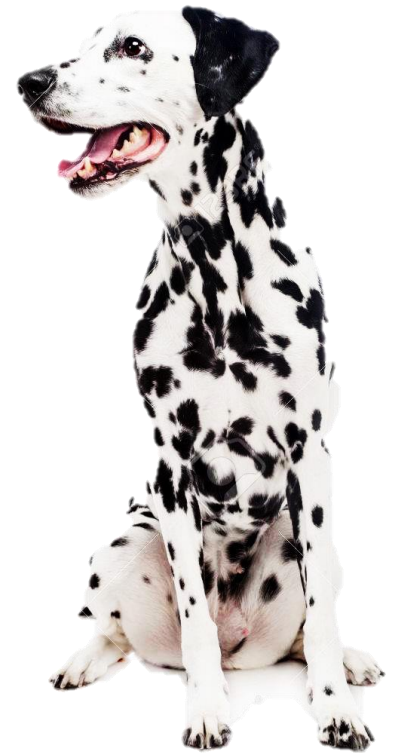
Fur ?



Cadaver dogs and the deathly hallows



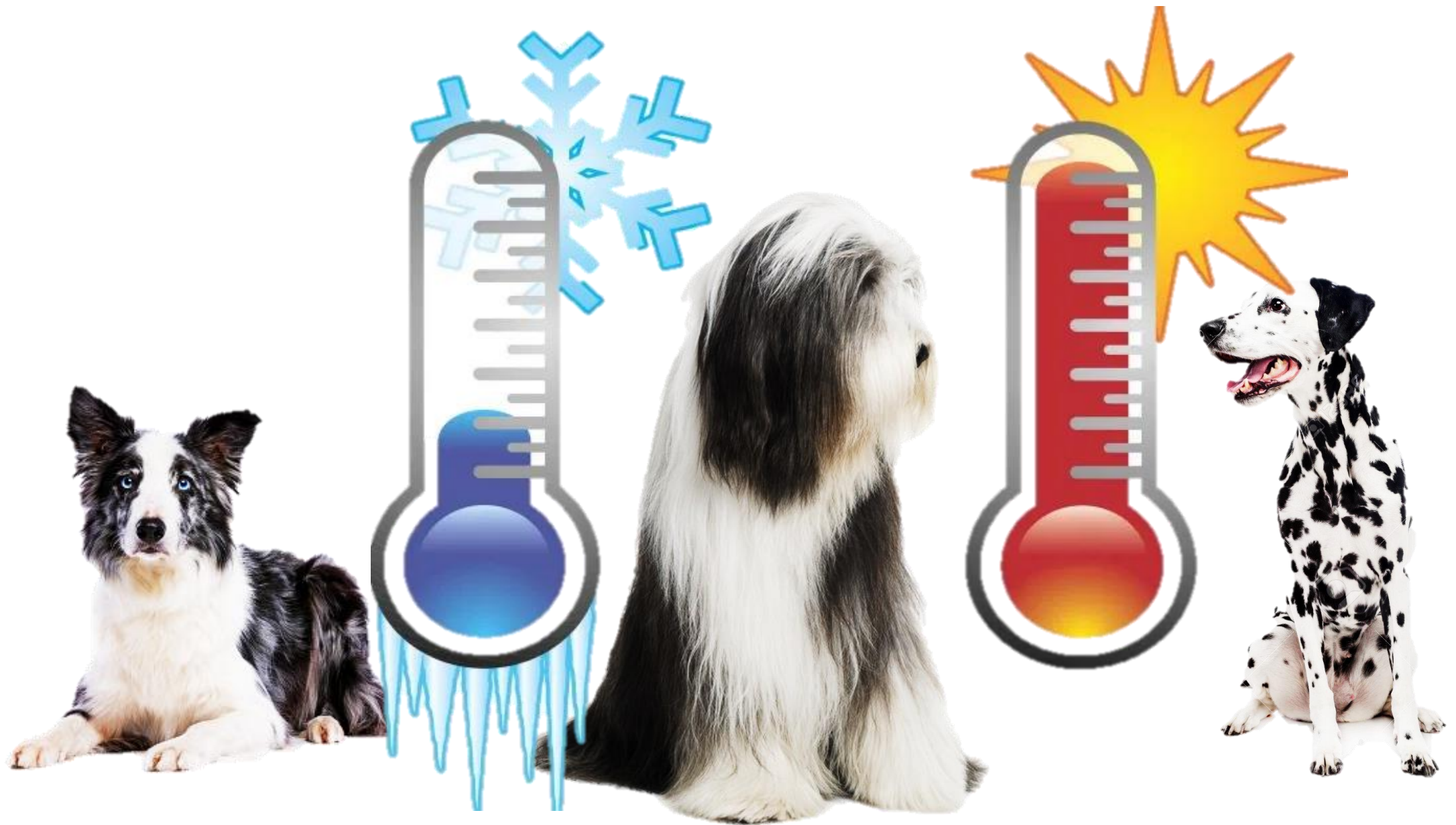
Cadaver dogs and the deathly hallows



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Cadaver dogs and the deathly hallows

Selection : behavioural traits



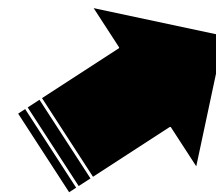
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Selection : behavioural traits



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Selection : behavioural traits



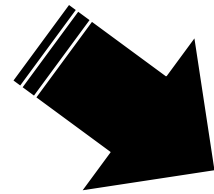
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Selection : behavioural traits



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Selection : behavioural traits



Cadaver dogs and the deathly hallows

Selection : method



Cadaver dogs and the deathly hallows

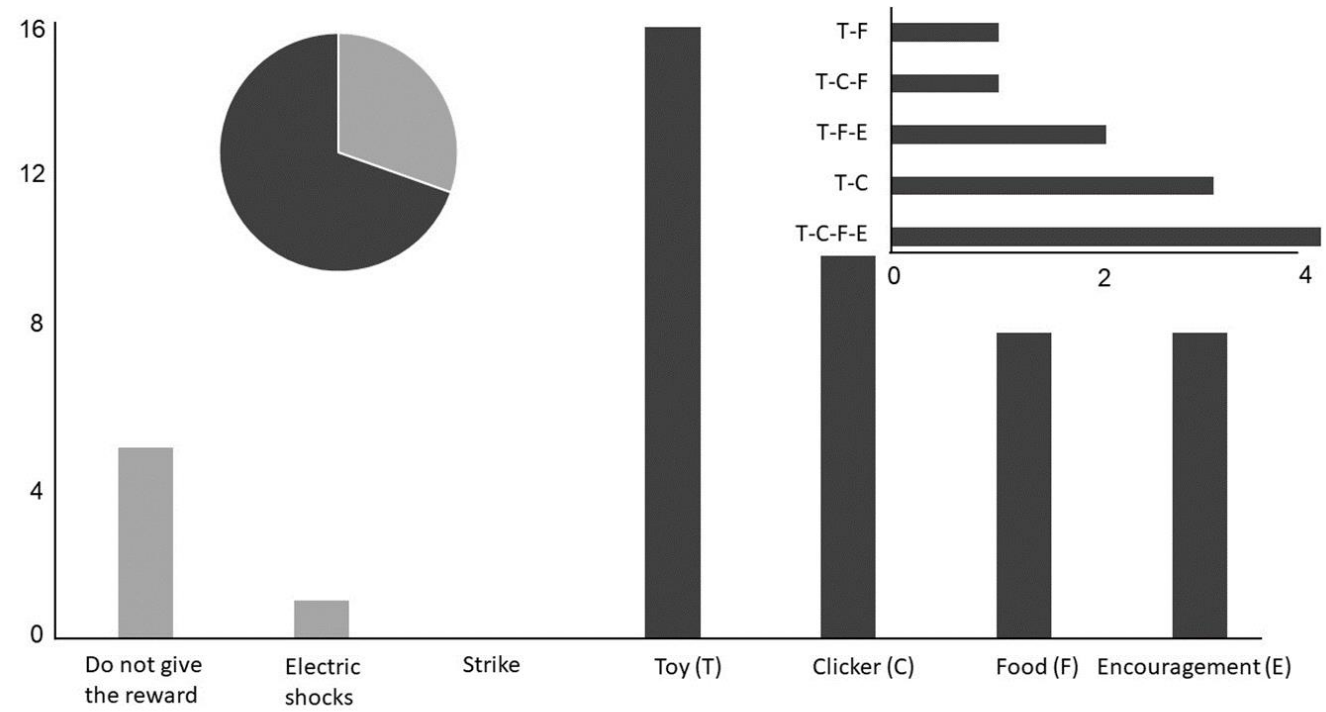
Training



Cadaver dogs and the deathly hallows



Cadaver dogs and the deadly hallows



Cadaver dogs and the deathly hallows

Training : End of session cues



Cadaver dogs and the deathly hallows

Training : End of session cues

Did I do right ?



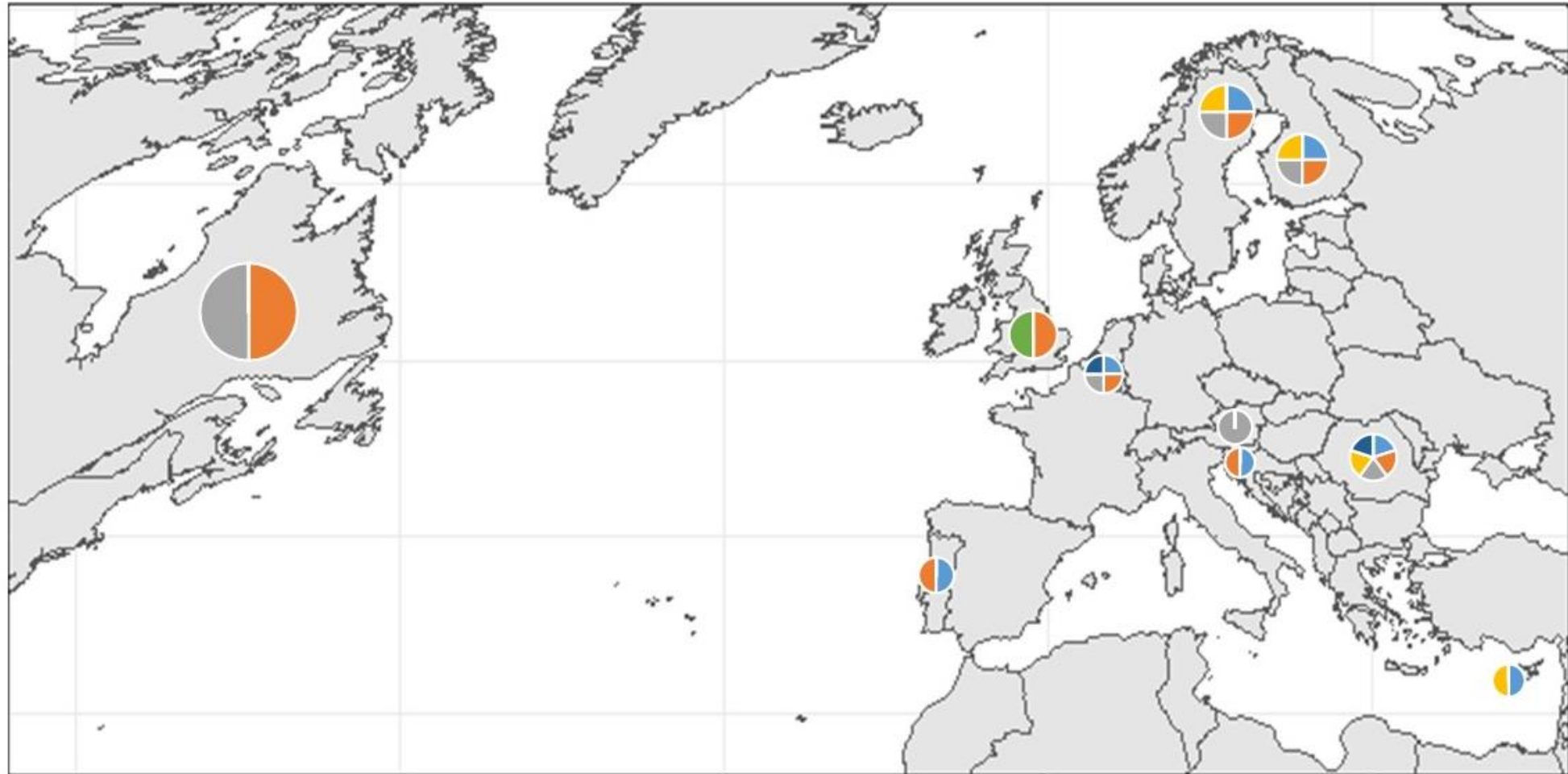
Cadaver dogs and the deathly hallows

Training : End of session cues



Cadaver dogs and the deathly hallows

Training aids



- Human fluids on gauze
- Headspace human cadaver gauze
- Clothes of human cadaver
- Human gravesoil
- Human Bones
- Human Teeth
- Animal fluid on gauze
- Commercial kits

Cadaver dogs and the deathly hallows



Cadaver dogs and the deathly hallows



Cadaver dogs and the deathly hallows



Cadaver dogs and the deathly hallows



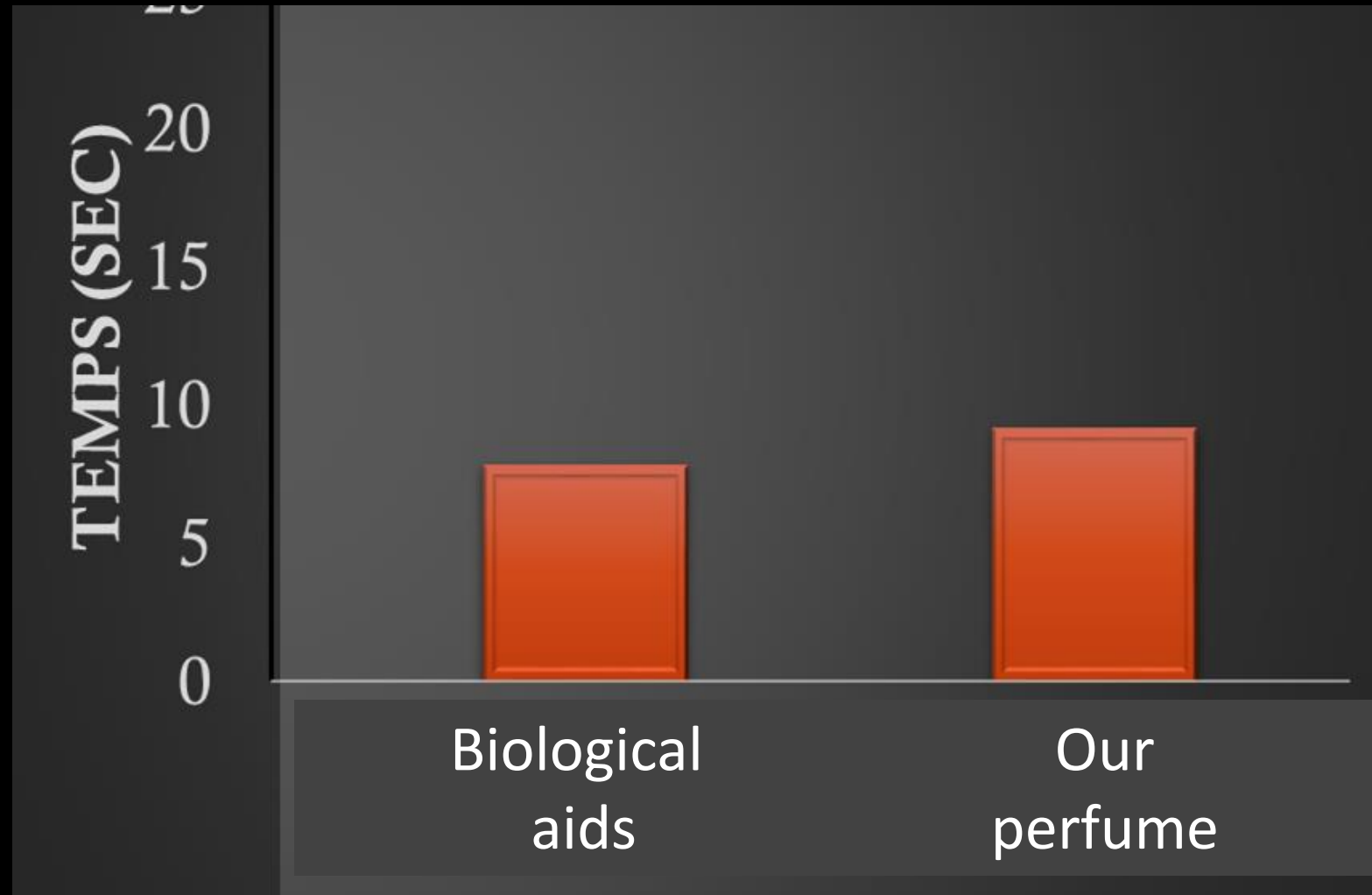
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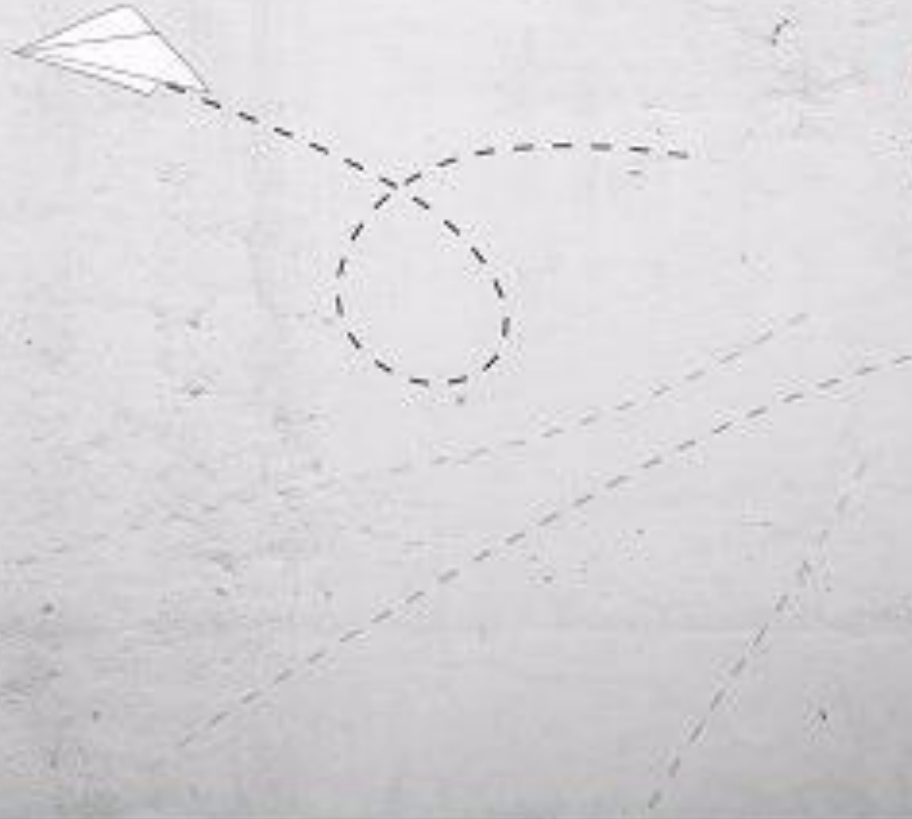
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Cadaver dogs and the deathly hallows



Inside the grave



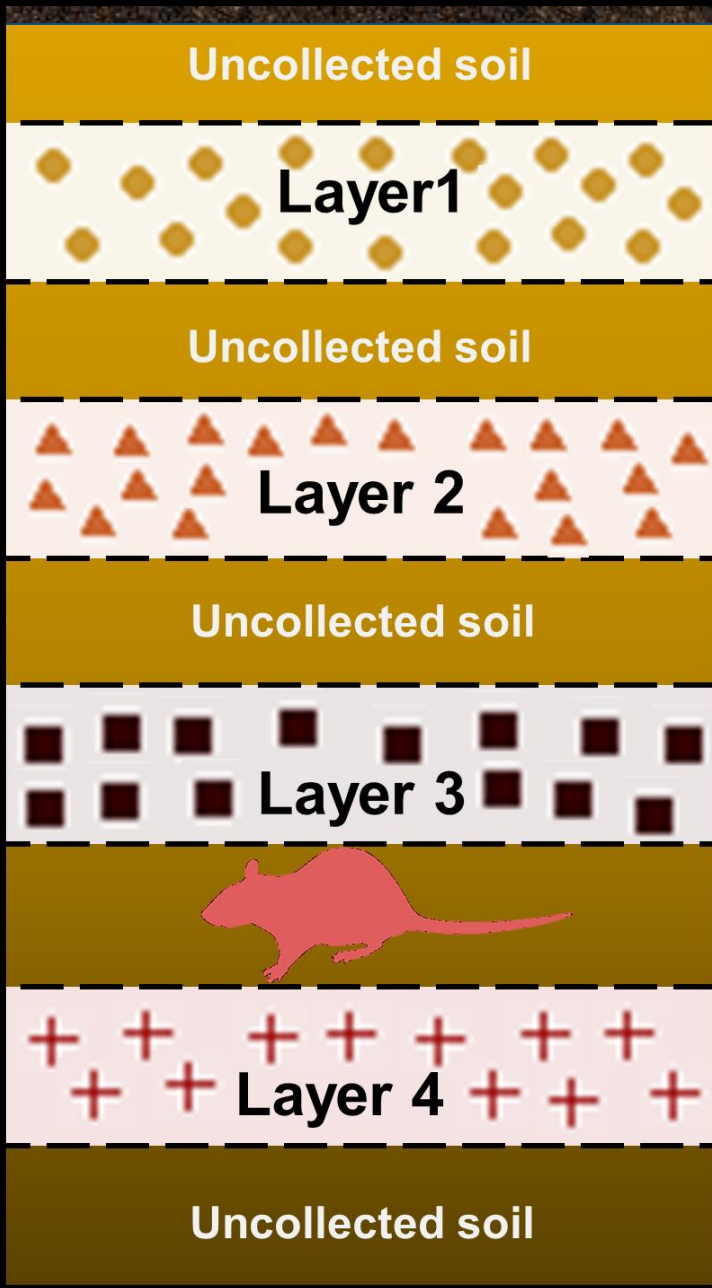
Inside the grave

Loamy soil

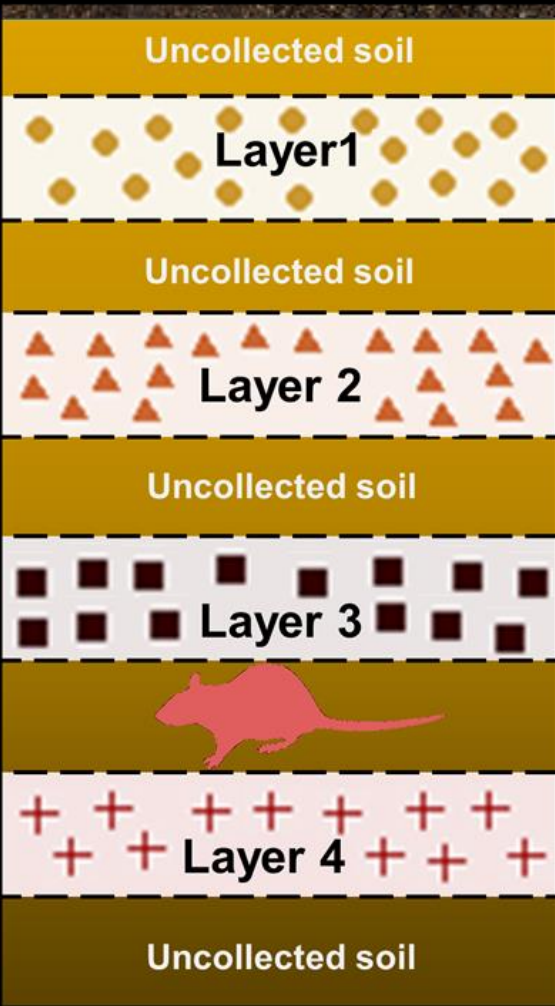
Sandy soil



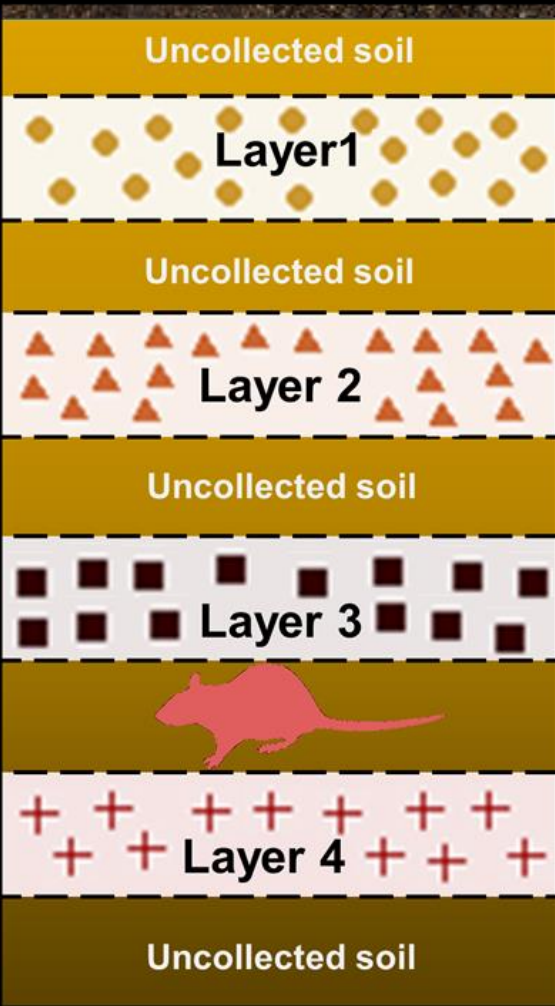
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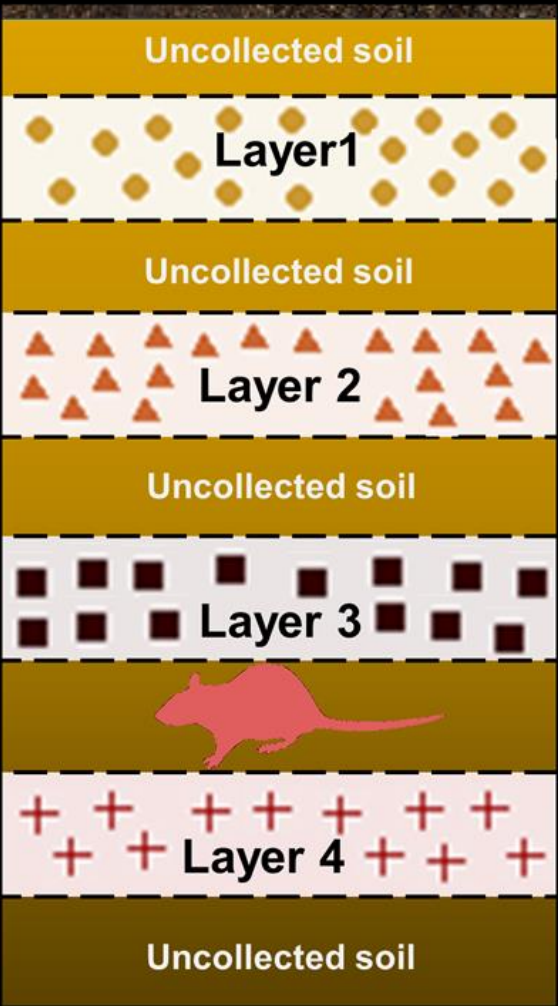
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Inside the grave

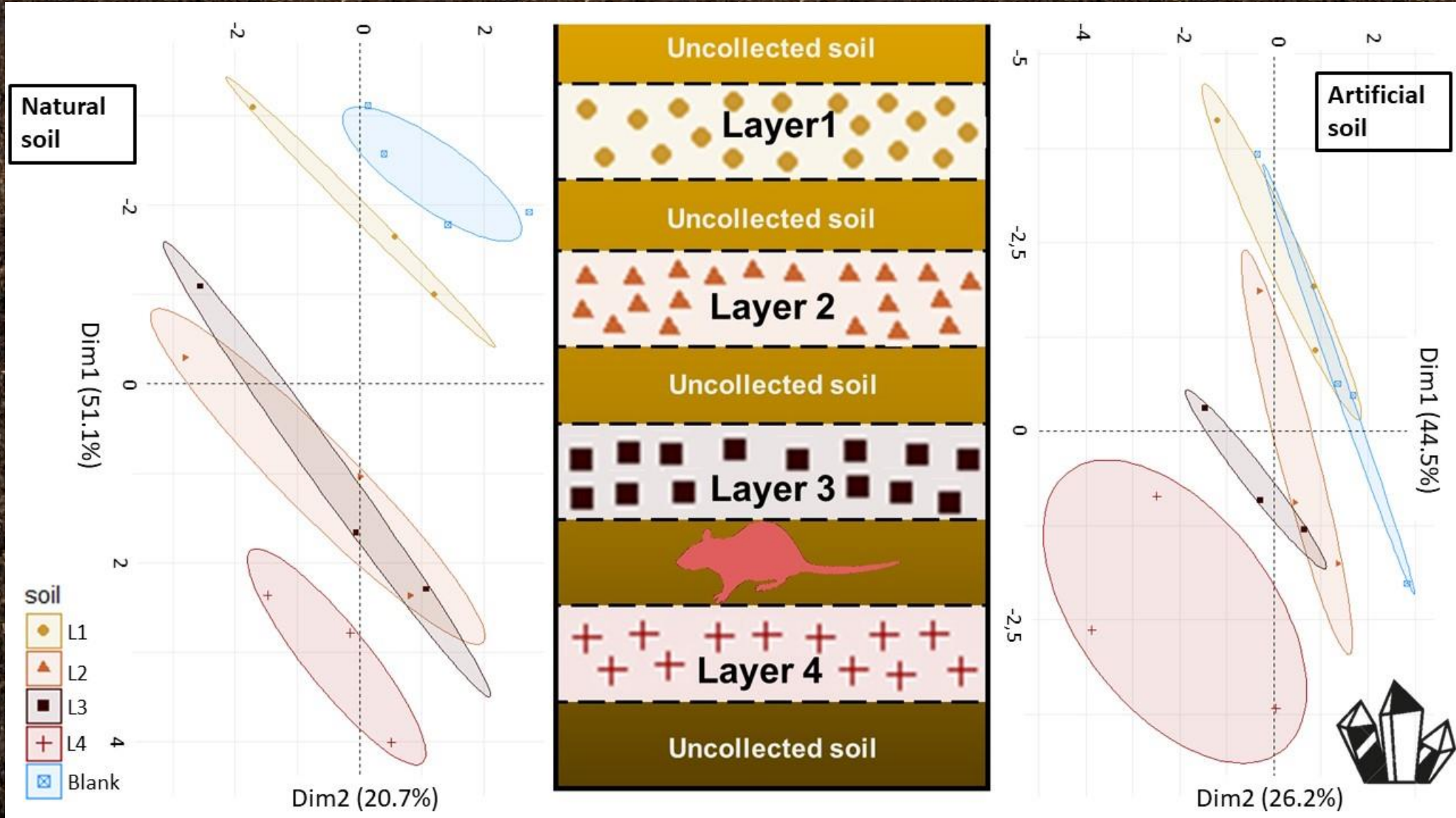


Inside the grave



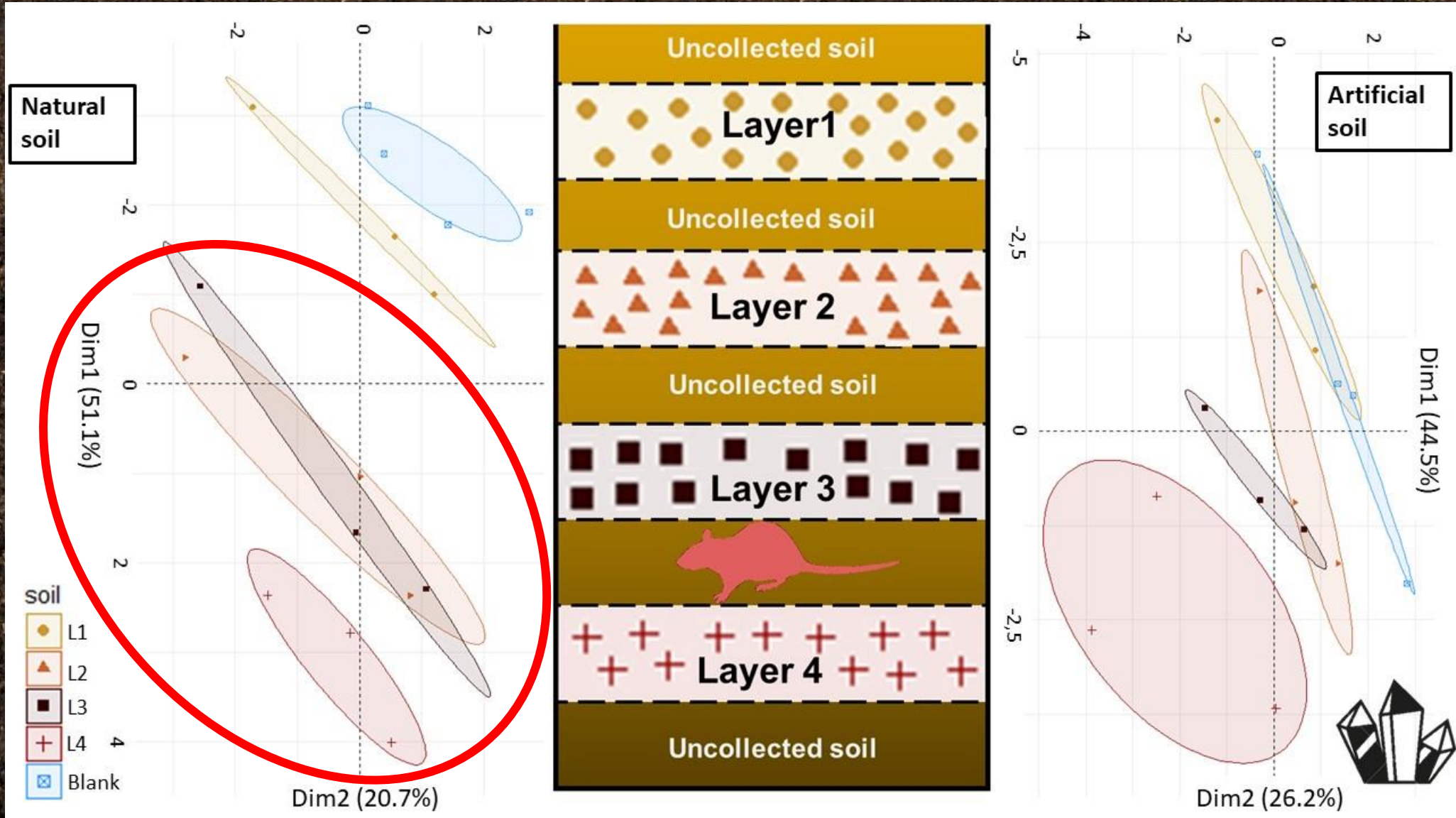
Inside the grave

Mineral analyses



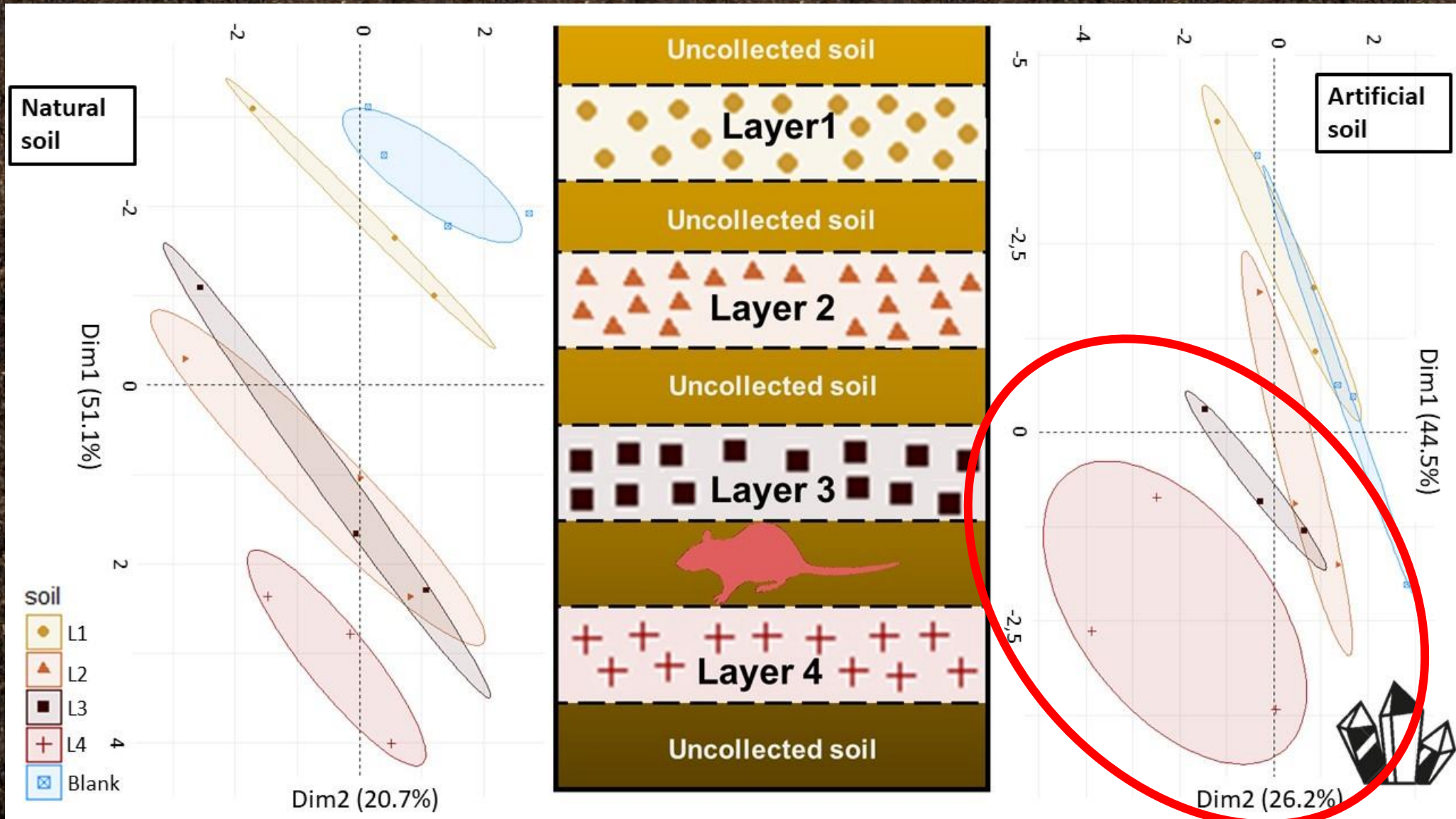
Inside the grave

Mineral analyses



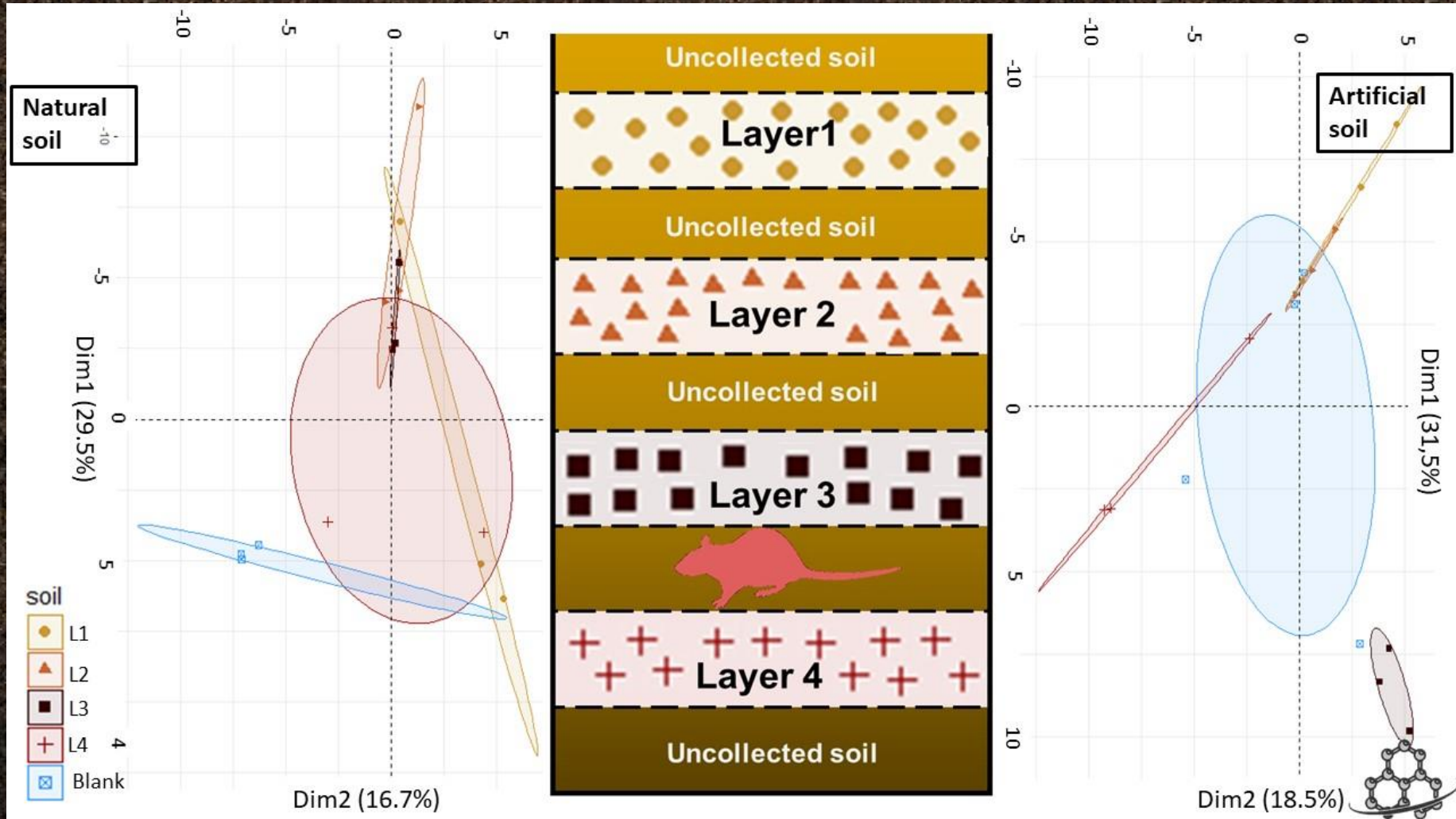
Inside the grave

Mineral analyses



Inside the grave

Volatile analyses



Inside the grave

Can we predict presence of clandestine grave based on the soil chemistry ?

YES

WE

CAN !

BARACK OBAMA



Inside the grave

What to do to apply it?

- Sampling through the decomposition process
- Repeat with human corpses
- Sampling after several time period after the removing of the corpse

Cruise on the styx





Soft water



Sea water

Take home message

Thank you !

- characterization of the smell death
- training of cadaver dogs
- Prediction clandestine grave. cmartin@uliege.be
- Water decomposition → we will have to meet again