



JC2 JOURNÉES CNES JEUNES CHERCHEURS




12, 13 ET 14 OCTOBRE 2022

CITÉ DE L'ESPACE

Mathieu Horeau


PhD Directors



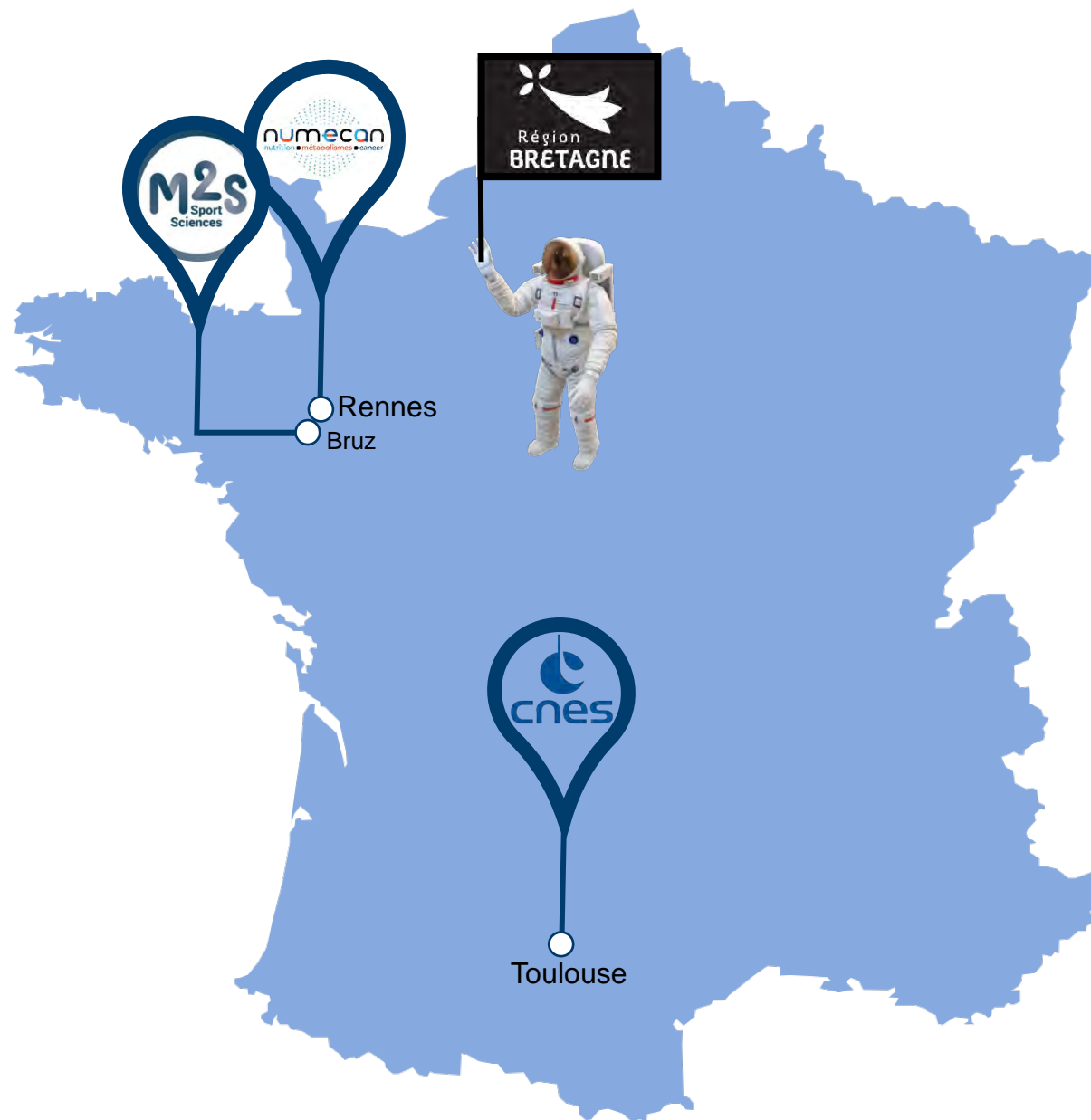
Olivier Loréal
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Head of Life Sciences - CNES
Guillemette Gauquelin-Koch

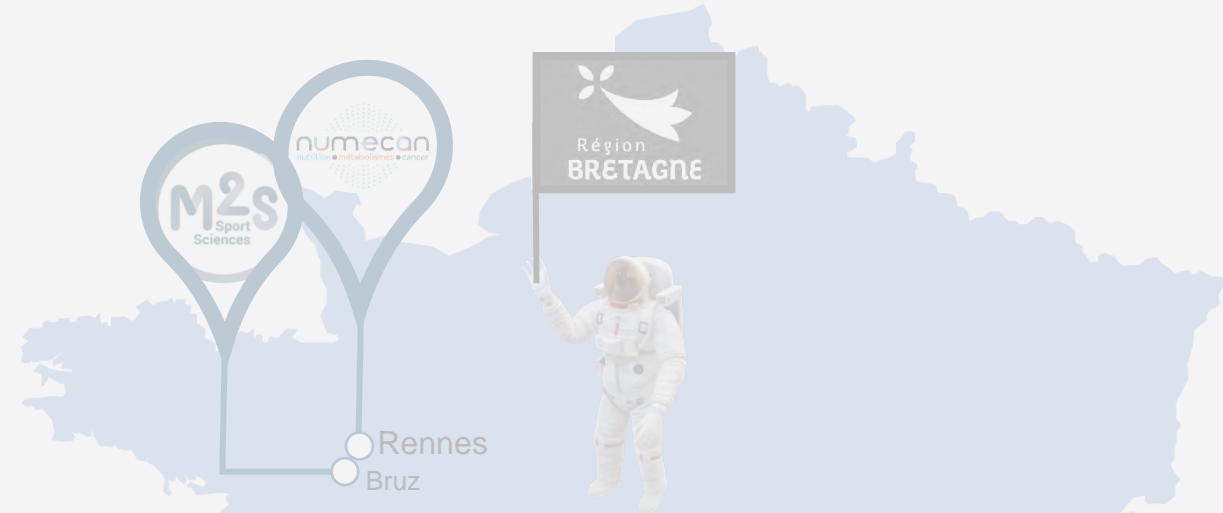


Doctorant : Mathieu Horeau

Directeurs de thèse



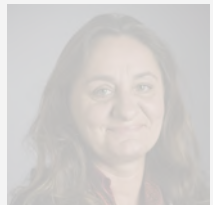
Olivier Loréal
Inserm - NuMeCan

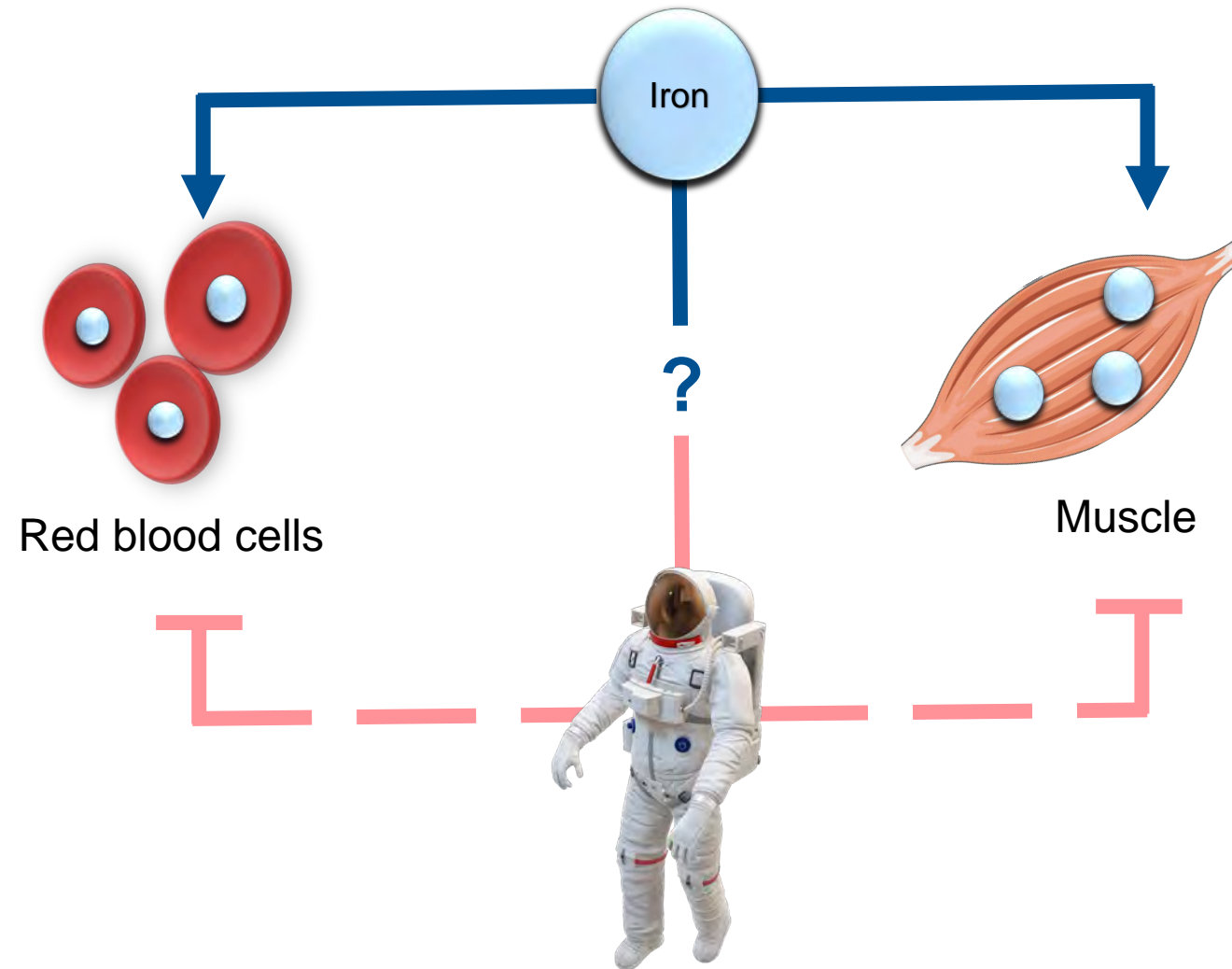


To understand the iron metabolism in men and women exposed to microgravity

Responsable CNES

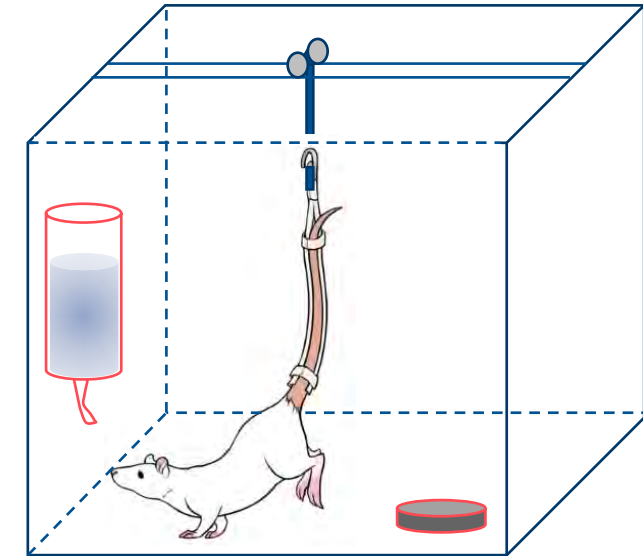
Guillemette Gauquelin-Koch







Men and women exposed to head-down bed rest
(AGRESA study)

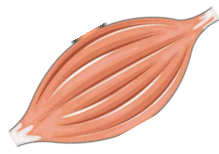
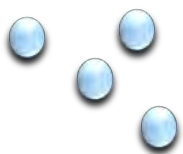


Male and female rats exposed to hindlimb unloading

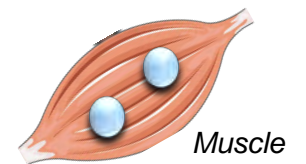
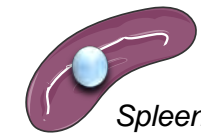
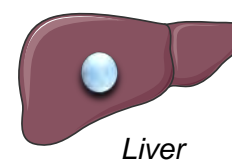
Iron metabolism

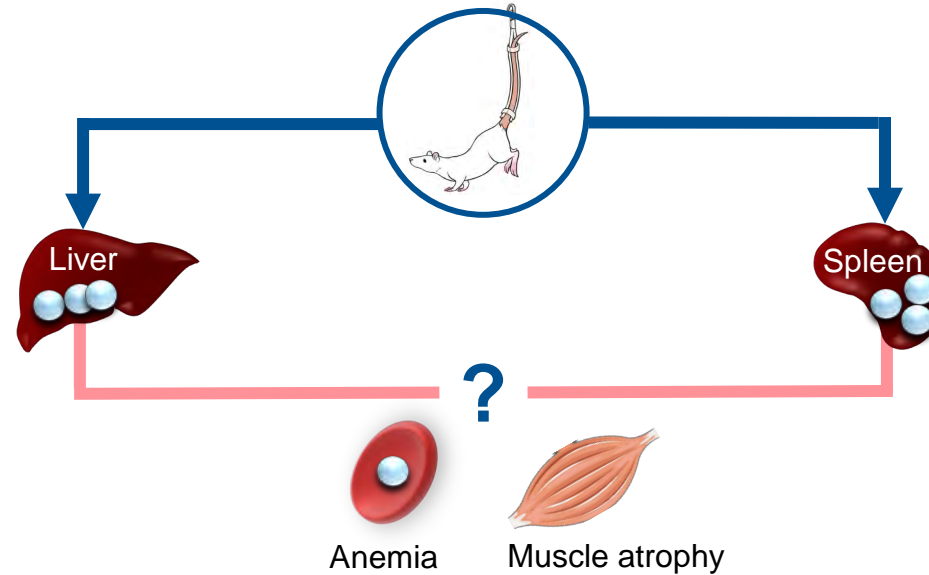
Red blood cells

Muscle mass



Iron metabolism distribution and regulation





Road to Mars : to develop and improve countermeasures to preserve astronauts' health



Diet ? Supplementation ?



Physical activity ?

Thank you for your attention



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