CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED
Epidemiología y Salud Pública

Three rapid scoping reviews mapping available biomarkers, for prevention in cancer, cardiovascular and neurodegenerative diseases

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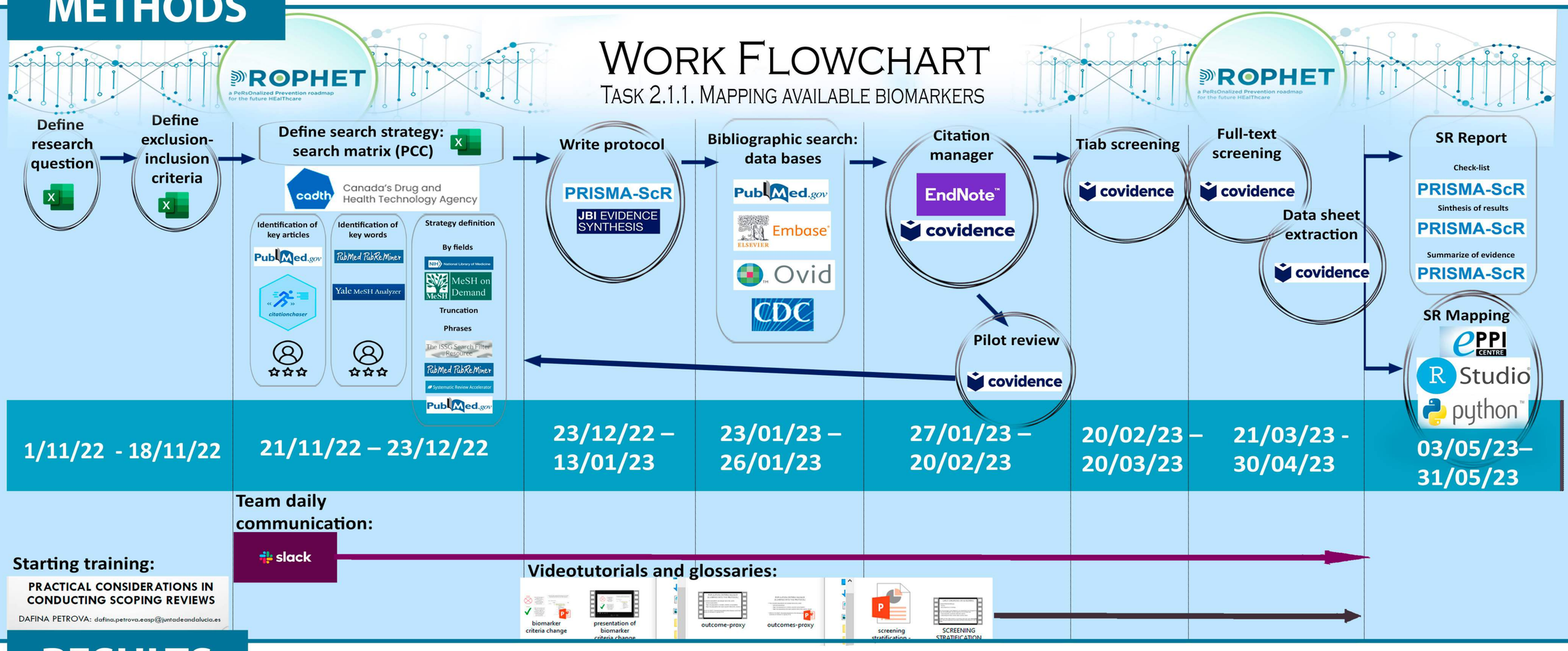
INTRODUCTION

Personalized prevention improves health outcomes by **targeting individual biological, environmental, and behavioral factors**, including genetic data. Technological advancements are crucial, particularly in identifying and validating biomarkers for **enhanced risk stratification** and **informed preventive strategies**.

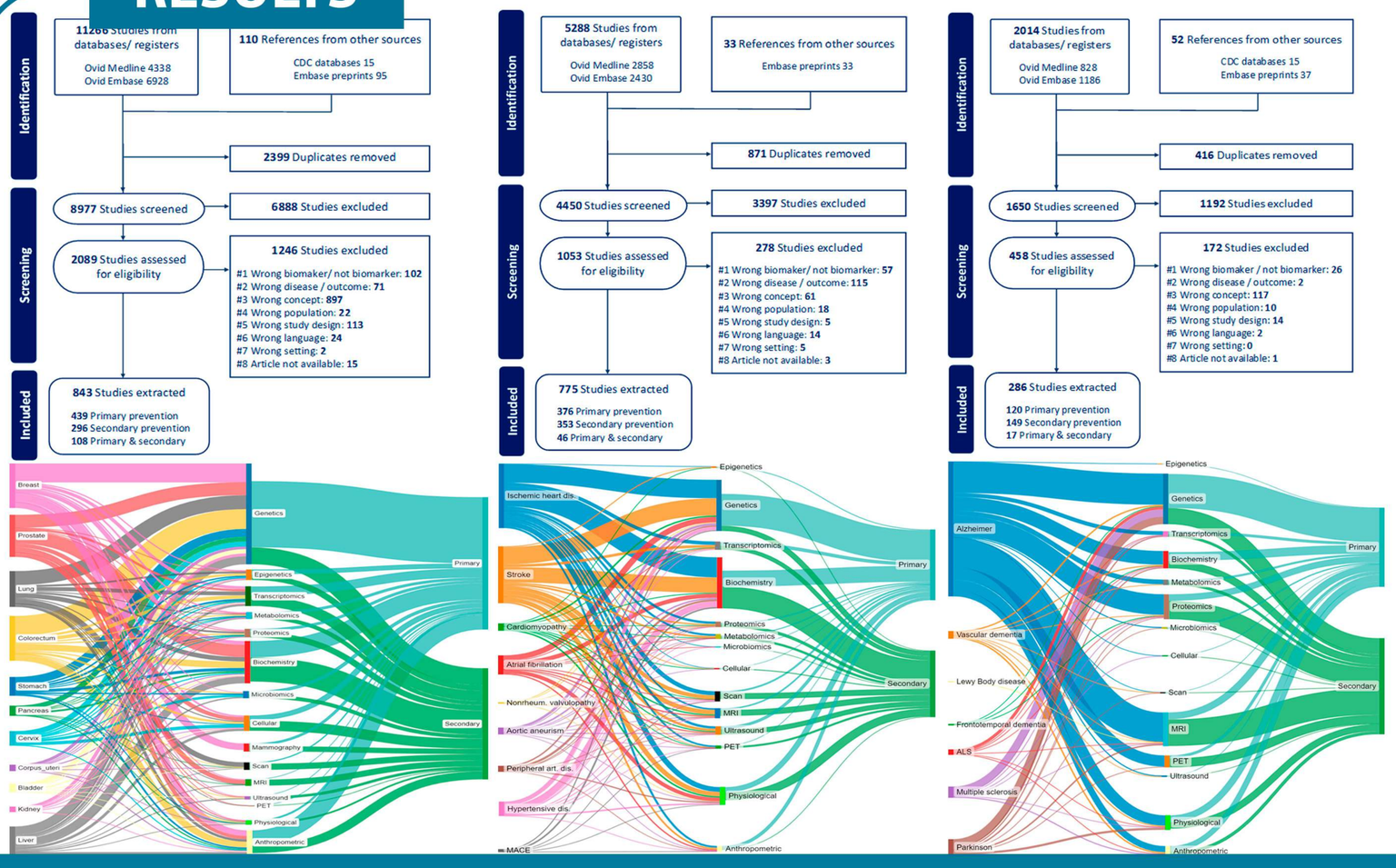
OBJECTIVES

Part of the "PeRsOnalised Prevention roadmap for the future HEalThcare" (**PROPHET**) project, the objective is to present a research **landscape of biomarkers for personalized primary or secondary prevention** in **cancer, cardiovascular, and neurodegenerative diseases** within clinical or public health settings.

METHODS



RESULTS



Prominent research in **cancer** and **CVD**; scarce in neurodegenerative diseases.

Primary prevention: **genetic.**
Secondary prevention: **image**, genetic.

Biomarkers used i**ndividually, combined,** and with digital technology, including **AI**.

Interactive gap maps

CONCLUSION

The report emphasizes research on **molecular biomarker**s for personalized prevention in cancer, CVD, and neurodegenerative diseases, identifying **gaps for improvement**.

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