

# Influenzinum 9CH and 15CH: “Boosters” of the immune response

Justine VERRE, Marie BOISSON, Sandra TRIBOLO and Stéphanie CHANUT

Laboratoires BOIRON , 2 Avenue de l'Ouest Lyonnais – 69510 Messimy –FRANCE

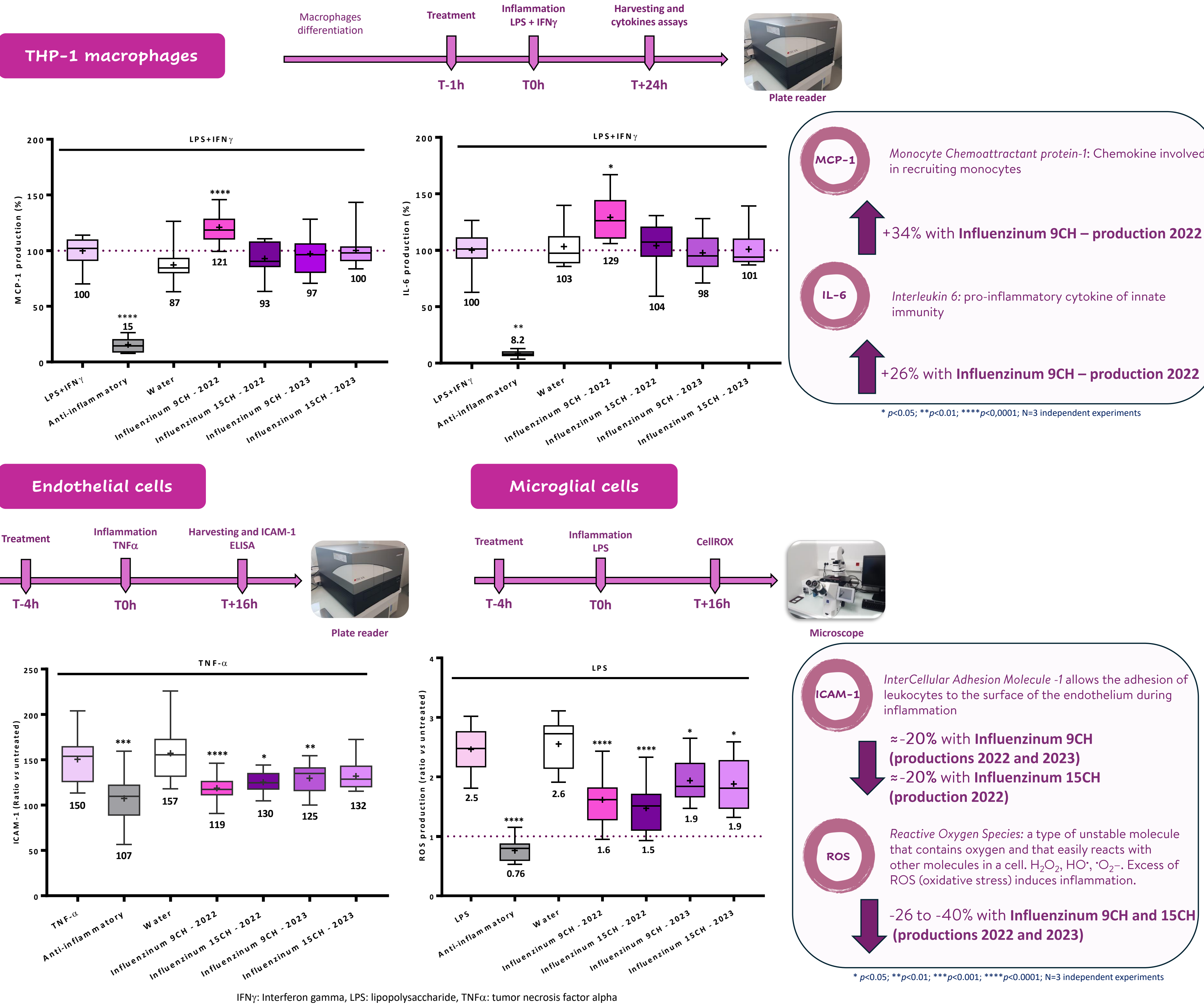
## INTRODUCTION

Homeopathic medicines are traditionally used in medical practice **to strengthen immunity** and **reduce inflammation**. In particular, **Influenzinum**, homeopathic dilution of the current year's influenza vaccine, is used in clinical practice both for the prevention of influenza-like illness, the management of possible symptoms following an anti-influenza vaccination and post-infectious convalescence<sup>(1)</sup>.

## OBJECTIVE

Evaluating the *in vitro* effect of homeopathic dilutions of **Influenzinum 9CH and 15CH** on biological markers of cellular inflammation: **MCP-1 and IL-6**, produced by macrophages, **ICAM-1** by endothelial cells and **reactive oxygen species (ROS)** by microglial cells.

## METHODS & RESULTS



## CONCLUSIONS

- Influenzinum 9CH-2022** increases the production of **MCP-1 and IL-6** which promote the differentiation, maturation and migration of monocytes.
- Influenzinum 9CH-2022 and 2023 and 15CH-2022** decrease **ICAM-1** production involves in the migration and fixation of leukocytes.
- Influenzinum** has antioxidant effects.

Overall, Influenzinum has a boosting effect on various biological parameters of innate immunity.

Reference: 1, Demarque D, Jouanny J, Poitevin B, Saint-Jean Y, Masson JL. Pharmacology & Homeopathic Materia Medica, (3rd Ed.), 2003, 442

These data presented cannot be extrapolated under any circumstances for clinical use in humans.