

## **Title: Inflammatory Circuits in Innate Immune Memory**

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Costas Fotakis Room

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Diagnostics  
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### **BIO SKETCH**

Prof Chavakis is a physician scientist, board certified in Internal Medicine and Laboratory Medicine. From 2005-2010 he was tenure-track Principal Investigator and Head of the Inflammation Biology Section at the Experimental Immunology Branch, National Cancer Institute, NIH, USA. Since 2010 he is professor at the University Dresden. Since 2017 he is Director of the Institute of Clinical Chemistry and Laboratory Medicine, and since 2023 Director of the Center for Laboratory Diagnostics of the University Hospital Dresden. His research focuses on the study of mechanisms governing inflammation and innate immunity. He is a highly cited researcher (Clarivate, 2022, 2023, 2024), a member of the German National Academy of Sciences (since 2023) and a three times European Research Council (ERC) grantee.

### **ABSTRACT**

Trained immunity is a component of innate immune memory and defines that certain stimuli can train innate immune cells in such a way that they display higher inflammatory responses upon secondary challenges. Trained immunity starts at the bone marrow with rewiring of long-lived progenitors of myeloid cells. Trained immunity may have beneficial actions (e.g. in the context of cancer); it can also be detrimental in the context of chronic inflammation.