

## Katia Catherine Karalis, MD, PhD

Physician-scientist and preclinical and translational research leader in Academic Institutions, biotech and pharmaceutical organizations defining new therapeutic applications, advancing cross-functional programs, and translating emerging platform capabilities into differentiated drug discovery programs. Trained at Clinical Molecular Genetics at Harvard Genetics Program, held academic positions at Boston Children's Hospital and BRFAA in Athens, Greece. An expert in the role of the hormonal mediators of the adaptive response to stressors, described for the first time the peripheral expression of CRH in inflamed tissues, with emphasis in Inflammatory Bowel Disease, and on early and late life neurogenesis. One of the early architects of organ-on-chip technology, with a direct scientific role from earliest proof-of-concept at the Wyss Institute through commercialization at Emulate and FDA/EMA recognition as New Approach Methodologies (NAMs). Demonstrated ability to translate emerging platform capabilities — including large-scale human genetics — into differentiated therapeutic programs across inflammation, neurodegeneration, GI, metabolic disease, and oncology. Track record of leading cross-functional asset teams of 35+ scientists in academic and industry organizations, mentoring scientists at all levels of education and training, awarded competitive funding from EU, NIH, DARPA, March of Dimes, CCFA, and Greek government funding mechanisms.

Proven builder of partnerships with pharmaceutical and scientific organizations that deliver pipeline-advancing data in top-tier journals (Nature Genetics, Science, NEJM, Nature Medicine, Science, Annals of Pathology, J of Immunology et al) and generate IP (>20patents), advancing programs through key inflection points toward candidate nomination.

Currently serving as Head of Translational Studies and Partnerships at GRIK Therapeutics, and Senior Consultant for preclinical development in early-stage biotech companies. Affiliated with MGH and MIT, adjunct professor at EUC.

katiakaralis@gmail.com | [LinkedIn](#) | hindex: 60 | [Google Scholar](#)

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