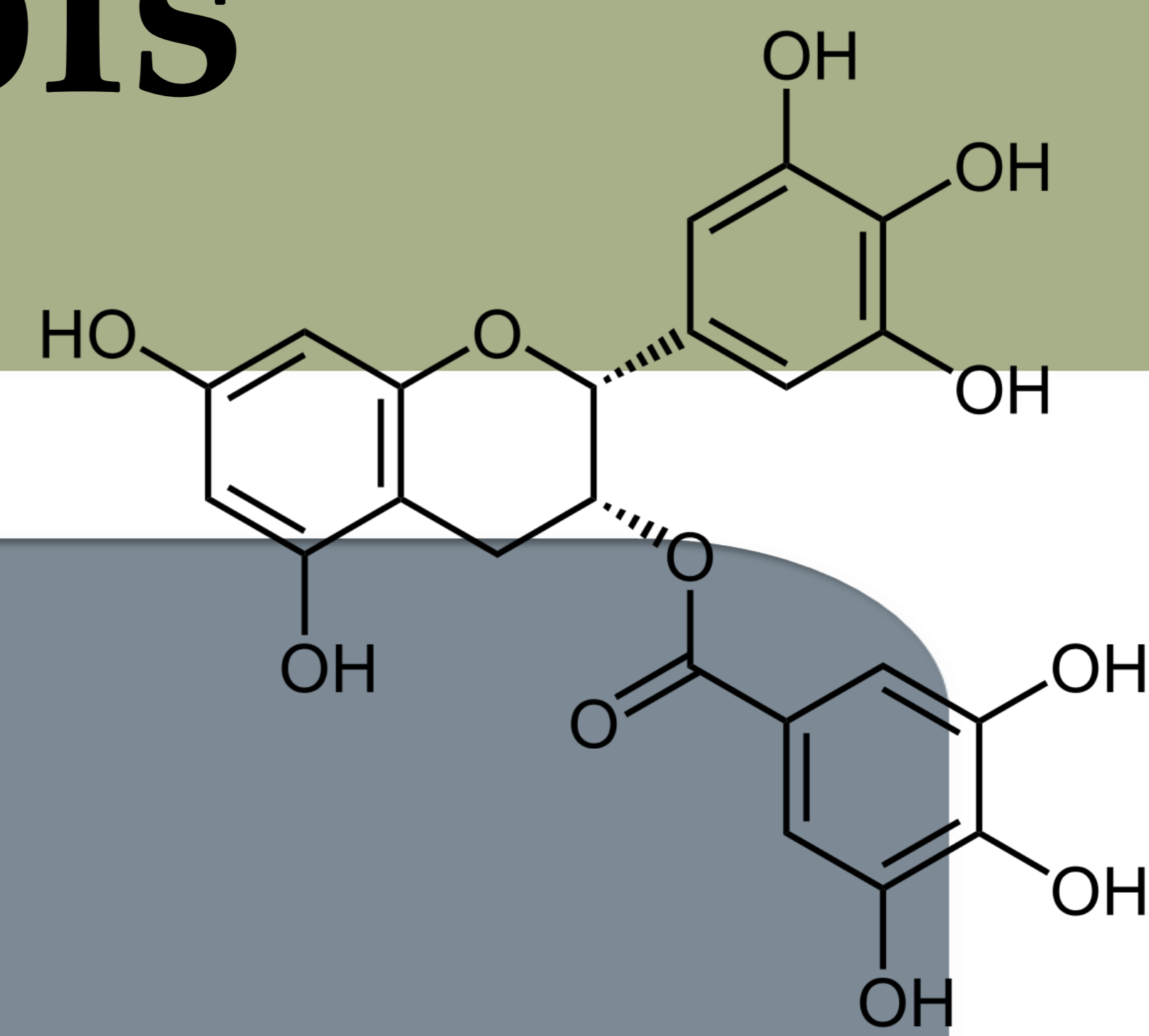


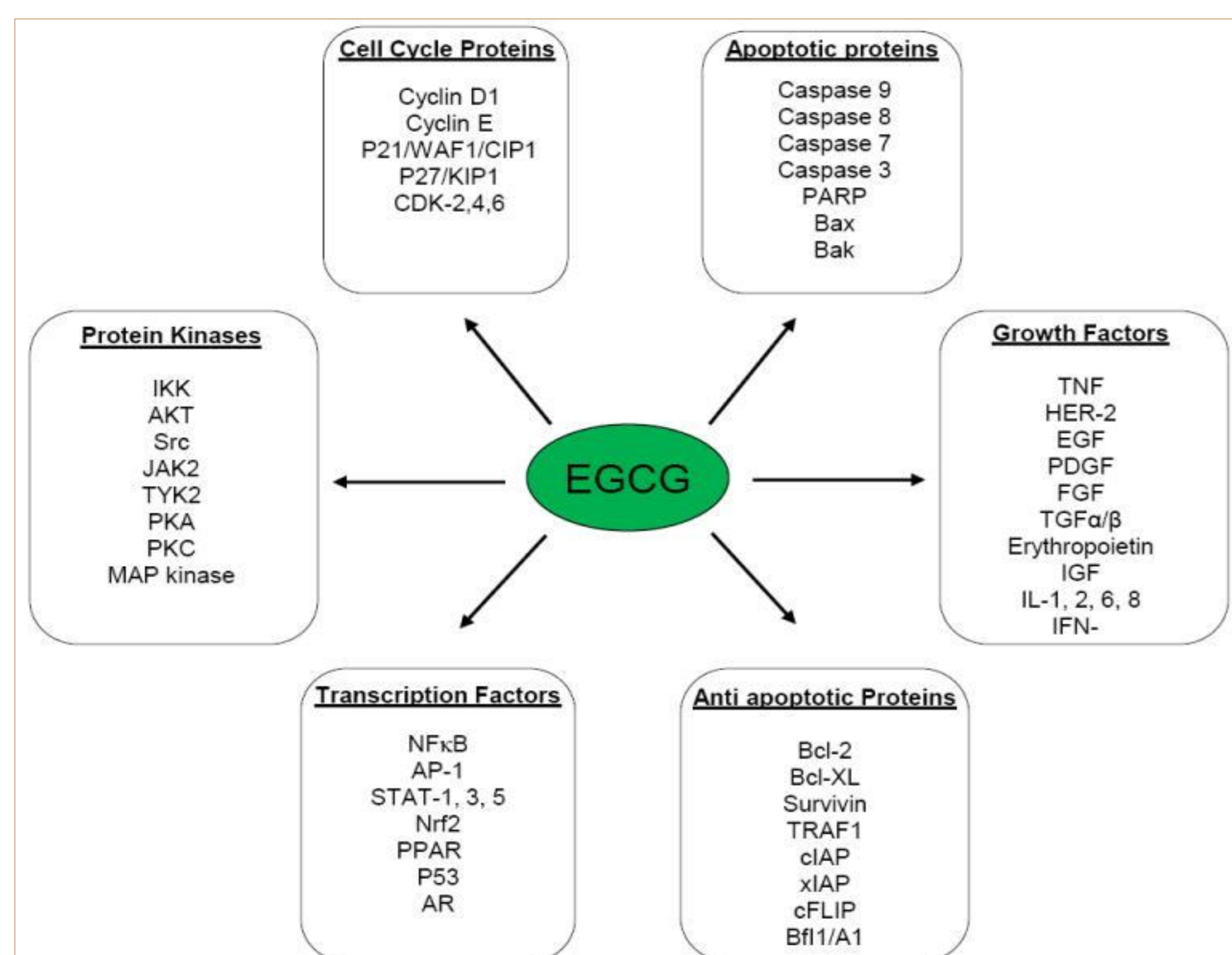
# Nutrigenomic: Gene-diet interactions in green tea polyphenols



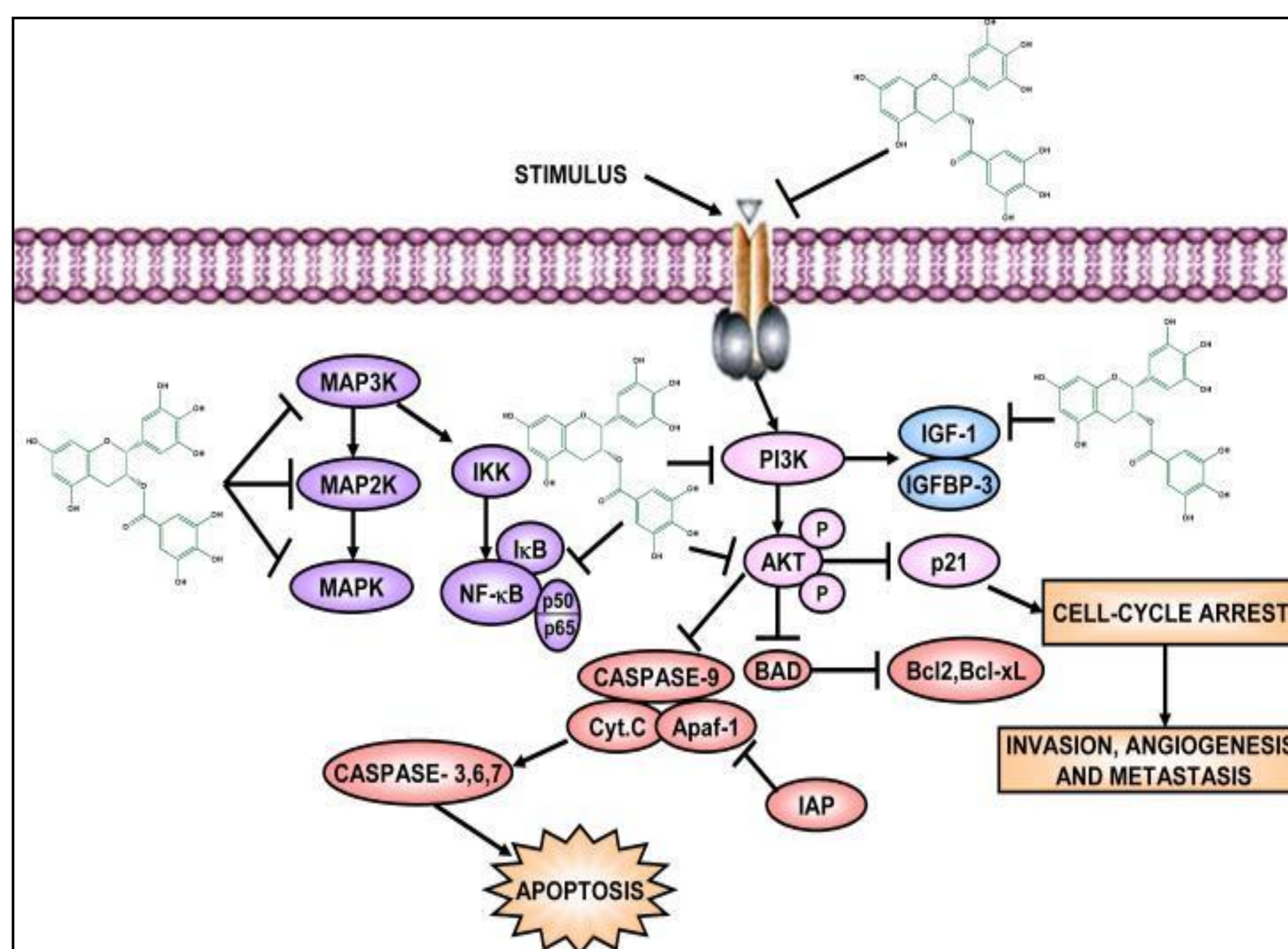
## OBJECTIVES

- ❖ Have an overview of nutrigenomic
- ❖ Know the main bioactive component of green tea and its features.
- ❖ Understand the molecular signaling pathways and mechanisms of action related to green tea polyphenol: epigallocatechin-3-gallate.
- ❖ Gene expression changes induced by green tea polyphenol epigallocatechin-3-gallate in several cell lines of different cancer types.

## Mechanisms of action of EGCG



## Signal transduction pathways of EGCG



## CONCLUSIONS

- ❖ Green tea polyphenols down-regulate the expression of genes involved in cellular proliferation and they up-regulate apoptotic genes.
- ❖ EGCG could have an important role in cancer prevention.