

Concomitant [immunity](#) refers to a situation in natural host-parasite relationships, namely that [hosts](#) already infected with a [parasite](#) are partially or wholly resistant to reinfection with the “homologous” organism.

An apparent [paradox](#) exists between the evidence for spontaneous systemic [T cell](#)-mediated anti-tumor [immune responses](#) in [cancer](#) patients, observed particularly in their [bone marrow](#), and local [tumor growth](#) in the periphery. This phenomenon, known as “[concomitant immunity](#)” suggests that the local tumor and it's [tumor microenvironment](#) (TME) prevent systemic [antitumor immunity](#) to become effective.

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