

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 its **tumor microenvironment** (TME) prevent systemic **antitumor immunity** to become effective.

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