Hybrid Molecules with Potential Activity against Drug-resistant Cancer (Part II)

Cancer therapy remains a great challenge, as chemotherapy exhibits many drawbacks, such as low specificity, high toxicity and drug resistance. Therefore, new types of anticancer agents are urgently needed.

Naturally occurring products own remarkable structural and mechanistic diversity, and play a critical role in the discovery of novel anticancer candidates. The manuscripts entitled “Naturally occurring steroidal saponins as potential anticancer agents: Current developments and mechanisms of action” and “Therapeutic potential of naturally occurring lignans as anticancer agents” outline the recent developments of naturally occurring lignans and steroidal saponins with anticancer potential to provide new lead hits and candidates for further evaluations.

Heterocycles occupy a leading position in the search for new chemotherapeutic agents. The manuscripts entitled “Recent updates on the anticancer activity of quinoxaline hybrids (Jan. 2017-Jan. 2022)” and “1,2,3-Triazole derivatives with anti-breast cancer potential” describe the current developments in the anticancer activity of quinoxaline hybrids and 1,2,3-triazole derivatives, and the mechanisms of action as well as structure-activity relationships to facilitate the further rational design.

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