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Pyrimidine Metabolism in Schistosomes: A comparison with Other Parasites and the Search for Potential Chemotherapeutic Targets

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Abbreviations: AMP, adenosine 5'-monophosphate; ADP, adenosine 5'-diphosphate; ATP, adenosine 5'-triphosphate; CMP, cytidine 5'-monophosphate; CDP, cytidine 5'-diphosphate; CTP, cytidine 5'-triphosphate; dCMP, 2'-deoxycytidine 5'-monophosphate; dCTP, 2'-deoxycytidine 5'-triphosphate; dTMP, thymidine 5'-monophosphate; dTDP, thymidine 5'-diphosphate; dTTP, thymidine 5'-triphosphate; dUMP, 2'-deoxyuridine 5'-monophosphate; dUDP, 2'-deoxyuridine 5'-diphosphate; dUTP, 2'-deoxyuridine 5'-triphosphate; dUTPase, deoxyuridine 5'-triphosphate pyrophosphatase; FdUMP, 5-fluorodeoxyuridine 5'-monophosphate; IC₅₀, concentration for 50% inhibition; NBMPR, nitrobenzylthioinosine; OMP, orotidine 5'-monophosphate; UMP, uridine 5'-monophosphate; UTP, uridine 5'-triphosphate.

This paper is dedicated to the memory of Alfred W. Senft, a teacher, a colleague, and a dear friend. His enthusiasm and pioneering work in the field of nucleotide metabolism in schistosomes have inspired us and many others to pursue the study of this fascinating facet of parasitology.

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