A pair of chemical compounds (light blue and purple) target wild-type and mutant forms of the \textit{Plasmodium falciparum} chloroquine resistance transporter, which mediates the parasite’s (yellow) resistance to the widely used antimalarial drug. Using high-throughput chemical and genetic analyses, Yuan et al. identify potential new antimalarial drugs that could be used in combination to suppress the development of drug resistance. See page 724.

\textit{Image: Ethan Tyler and Alan Hoofring, Division of Medical Arts, National Institutes of Health}
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718 Effects of Working-Memory Training on Striatal Dopamine Release
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A cognitive training program that improves working memory is associated with increased dopamine release during task performance.

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724 Chemical Genomic Profiling for Antimalarial Therapies, Response Signatures, and Molecular Targets
J. Yuan et al.
There are a limited number of ways that the malaria parasite can develop drug resistance.
>> Perspective p. 705

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L. Feng et al.
An engineered metallic-silicon waveguide allows for direction-dependent light propagation.

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A model compound sheds light on the puzzling role of calcium in the metal cluster that oxidizes water during photosynthesis.

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The low-temperature oxidation of carbon monoxide proceeds initially with oxygen molecules that bridge titanium and gold sites.

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