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ON THE COVER

Grand Prismatic Spring in Yellowstone National Park, illustrating the evolution of life on Earth from hot (middle) to colder environments (edges). Bacteria with different survival temperatures create the color scale. To study the evolution of enzymatic thermoadaptation, Nguyen et al. reconstructed enzyme activity over 3 billion years in response to cooling temperatures. For more on evolutionary memory in modern enzymes, see page 289. Photo: Tom Murphy/ National Geographic Creative

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