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[Photograph of a person holding a syringe, with text about the role of gut microbes in herbivores and the potential for syringes to be used in rabies prevention.]

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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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