Microbes from Hell

Patrick Forterre
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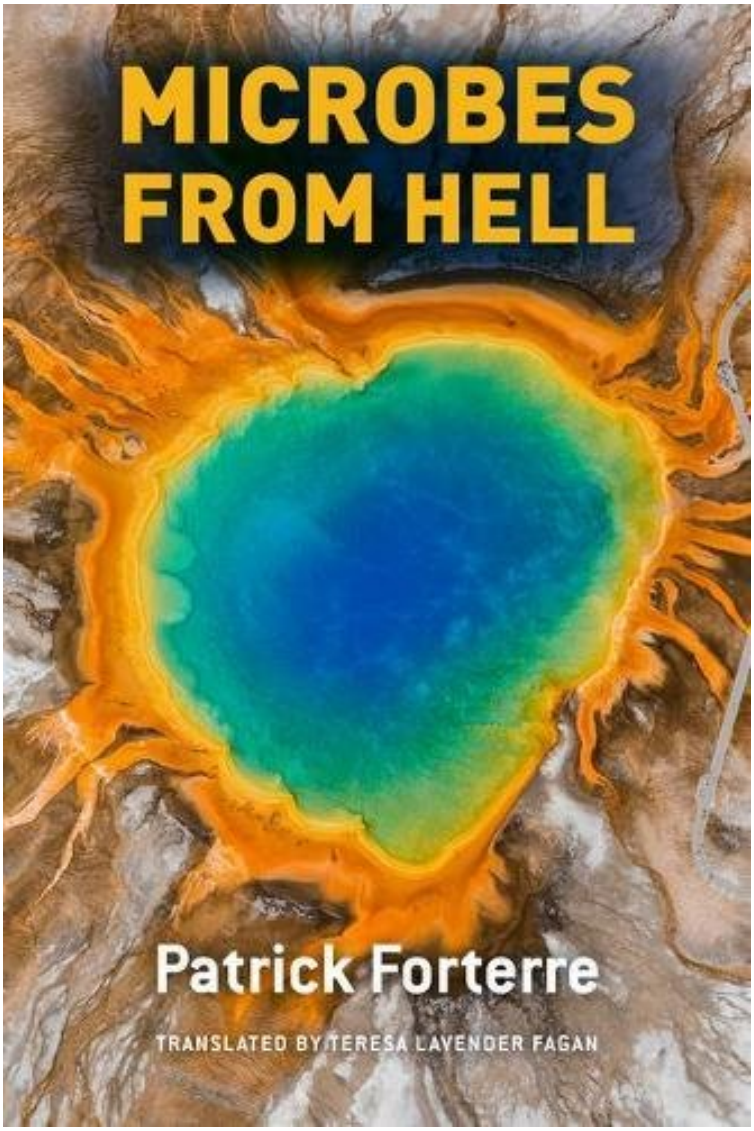

#400447 in Books Ingramcontent 2016-10-07Original language:EnglishPDF # 1 9.00 x 1.10 x 6.00l, .0 #File Name: 022626582X288 pagesMicrobes from Hell | File size: 15.Mb

Patrick Forterre : Microbes from Hell before purchasing it in order to gage whether or not it would be worth my time, and all praised Microbes from Hell:

0 of 0 people found the following review helpful. An interesting book about an interesting class of microbesBy Colin McI like this book a decent amount-it has its problems but overall its an enjoyable read though who should read it might come with some caveats. First off the problems-I feel like this book could have used another run through an editor to fix some wording and other things that feel awkward, especially the sentence length. It can perhaps be chalked down to the more niche nature of the book and the translation from French to English, and I didn't notice any

glaring issues with the more scientific portions so its not a killer but overall its something to prepare yourself for.Other than that, this serves as a pretty interesting guide to the history of hyperthermophile related science, and an explanation of how they manage to survive at such high temperatures. I generally think a good job is done explaining the science aspects of how all this stuff works and I enjoyed hearing different theories on the origins of life than what is generally put forth as being believed to have happened-I think its important to consider differing viewpoints and be open to new theories, and while I won't say I'm 100% with him on his thoughts I do think there seems to be some merit to them and I feel a bit richer for having experienced them. Its a cool look at hyperthermophiles and I did get to learn more about them which is definitely appreciated. As for if you'll like this book...well I'm a microbiologist or at least a graduate of microbiology, so obviously I'm a bit biased but if you are scientifically minded and can deal with some heavier scientific concepts and chemical stuff then I think you'll like it. If you're not good with that sort of thing....the book does get into some detail about the chemical nature of stuff relatively often and the book might be harder to get through if not very difficult so consider that before you get into it. I'd say its a good book for the scientifically minded who would like to learn more about this pretty cool class of organism (even if its a bit biased towards archea, but I am biased towards bacteria so ;) yerp) and its worth a looksie-just give it time to hit its stride.

At the close of the 1970s, the two-domain classification scheme long used by most biologistsprokaryotes versus eukaryoteswas upended by the discovery of an entirely new group of organisms: archaea. Initially thought to be bacteria, these single-celled microbesmany of which were first found in seemingly unlivable habitats like the volcanic hot springs of Yellowstone National Parkwere in fact so different at molecular and genetic levels as to constitute a separate, third domain beside bacteria and eukaryotes. Their discovery sparked a conceptual revolution in our understanding of the evolution of life, and Patrick Forterre wasand still isat the vanguard of this revolution. In Microbes from Hell, one of the worlds leading experts on archaea and hyperthermophiles, or organisms that have evolved to flourish in extreme temperatures, offers a colorful, engaging account of this taxonomic upheaval. Blending tales of his own search for thermophiles with discussions of both the physiological challenges thermophiles face and the unique adaptations they have evolved to live in high-temperature environments, Forterre illuminates our developing understanding of the relationship between archaea and the rest of Earths organisms. From biotech applications to the latest discoveries in thermophile research, from microbiomes to the communities of organisms that dwell on deep-sea vents, Forterres exploration of life-forms that seem to thrive at the mouth of hell provides a glimpse into the early days of Earth, offering deep insight into what life may have looked like in the extreme environments of our planets dawn.

This is history told by a scientist who helped to make it. . . . His book walks the reader through his fascinating journey to understand how life evolved. Today, Forterre believes that viruses played a vital part. Microbes from Hell, in interweaving a scientific life with the grand discovery of the archaea, is a wonderful homage to this exciting field, which continues to challenge our view of lifes origins.