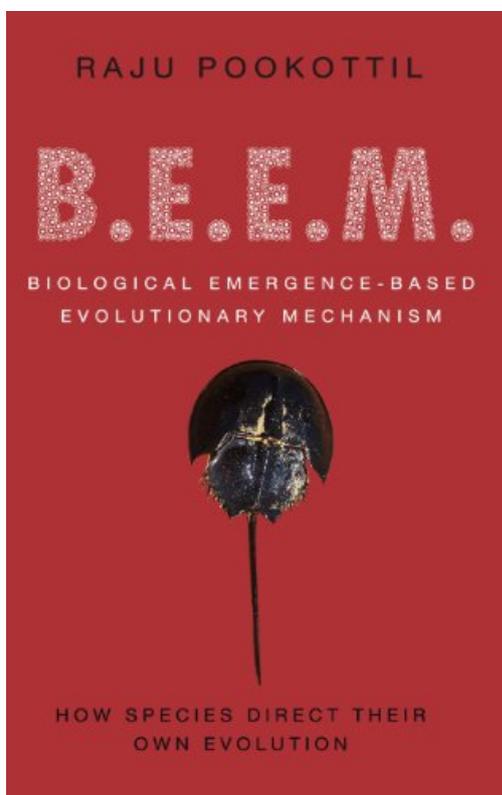


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From the Author

Do we really need a new hypothesis on how evolution works? Ever since Charles Darwin proposed his theory of evolution by natural selection, the topic has attracted endless debates. Prior to Darwin's proposal of natural selection, Jean-Baptiste Lamarck had proposed his theory of evolution by inheritance of acquired characteristics, generally known as Lamarckism. But Darwinism later became the preferred mechanism to Lamarckism (although recent years have seen a surge of interest in improvised versions of the concept, known as neo-Lamarckism). The battle has now shifted to the evolution vs. creationism debate, with creationists often pushing their ideas under the guise of intelligent design.

While enough evidence has accumulated to demonstrate that the theory of evolution has been proven beyond sensible debate, the scope of action by natural selection in driving evolution is debatable. Human evolution, for example, has proceeded around 100 times faster in the last 10,000 years than it had ever before. How could that have happened when this is a period when natural selection's effect on us has actually reduced considerably? Proof for natural selection in action is also rare and mostly restricted to microbes.

Although the majority of evolutionary biologists accept automatically that natural selection satisfactorily explains evolution, a sizable minority of scientists (without any religious agenda) believe that the story is far from over. For example, scientists such as James A. Shapiro explains in his 2011 book that cells are packed with molecular mechanisms that help them actively restructure their genomes. Random mutations are fairly rare and almost always deteriorate what is already working well. Cells constantly and purposefully reorganize and engineer their genomes to suit specific needs. Shapiro calls this process 'natural genetic engineering'. The rapidly emerging field of epigenetics and systems biology are also moving molecular biology away from a gene-centric view of evolution.

What would stop a species from designing itself over time and driving its own evolution? Firstly, it has to be able to make informed decisions on how to modify itself. For example, pandas (the species as a whole) should be able to decide on the ideal position for a new thumb. Secondly, considering that it can, it has to be able to do two things. Communicate any such design parameters to the germ-line cells (the sperm and egg in animals) and based on these parameters, make any necessary modifications to the genome. Using many

examples, BEEM demonstrates that every species is capable of performing all these actions.

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