

# New Zealand academic offers new explanation for Alexander the Great's death

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Credit: University of Otago

It may have happened more than 2300 years ago, but the mystery of Alexander the Great's death could finally be solved, thanks to a University of Otago, New Zealand, academic.

Dr. Katherine Hall, a Senior Lecturer at the Dunedin School of Medicine and practising clinician, believes the ancient ruler did not die from infection, alcoholism or murder, as others have claimed. Instead, she argues he met his demise thanks to the neurological disorder Guillain-Barré Syndrome (GBS).

In an article [published in \*The Ancient History Bulletin\*](#), she says previous theories around his death in 323BC have not been satisfactory as they have not explained the entire event.

"In particular, none have provided an all-encompassing answer which gives a plausible and

feasible explanation for a fact recorded by one source—Alexander's body failed to show any signs of decomposition for six days after his death.

"The Ancient Greeks thought that this proved that Alexander was a god; this article is the first to provide a real-world answer," Dr. Hall says.

Along with the reported delay in decay, the 32-year-old was said to have developed a fever; abdominal pain; a progressive, symmetrical, ascending paralysis; and remained *compos mentis* until just before his death.

Dr. Hall believes a diagnosis of GBS, contracted from a *Campylobacter pylori* infection (common at the time and a frequent cause for GBS), stands the test of scholarly rigour, from both Classical and medical perspectives.

Most arguments around Alexander's cause of death focus on his fever and abdominal pain. However, Dr. Hall says the description of him remaining of sound mind receives barely any attention.

She believes he contracted an acute motor axonal neuropathy variant of GBS which produced paralysis but without confusion or unconsciousness.

His passing was further complicated by the difficulties in diagnosing death in ancient times, which relied on presence of breath rather than pulse, she says.

These difficulties, along with the type of paralysis of his body (most commonly caused by GBS) and lowered oxygen demands, would reduce the visibility of his breathing. A possible failure of his body's temperature autoregulation, and his pupils becoming fixed and dilated, also point to the preservation of his body not occurring because of a miracle, but because he was not dead yet.

"I wanted to stimulate new debate and discussion and possibly rewrite the history books by arguing Alexander's real death was six days later than previously accepted. His death may be the most famous case of pseudothanatos, or false diagnosis of death, ever recorded," she says.

Dr. Hall believes people are still interested in Alexander because he was a psychologically complex and complicated person who was viewed as a warrior-hero.

"While more modern analyses have attempted to be broader and more nuanced, whatever way people want to conceive of Alexander there is a desire to try and understand his life as fulsomely as possible.

"The enduring mystery of his cause of death continues to attract both public and scholastic interest.

"The elegance of the GBS diagnosis for the cause of his [death](#) is that it explains so many, otherwise diverse, elements, and renders them into a coherent whole."

Provided by University of Otago

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