

Study: COVID-19 does not enter DNA

July 30 2021



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University of Queensland researchers are refuting claims that COVID-19 can enter a person's DNA.

The researchers from UQ's Queensland Brain Institute say the claims have led to "scaremongering" and people should not hesitate to be vaccinated.

Professor Geoff Faulkner said his team's research published in *Cell Reports* showed there was no evidence of COVID-19—or the Pfizer or



AstraZeneca vaccines—entering DNA.

"The evidence refutes this concept being used to fuel vaccine hesitancy," he said.

Professor Faulkner conducted the research to assess now widely spread findings, published in the *Proceedings of the National Academy of Sciences*, suggesting positive COVID-19 tests long after recovery are due to the virus being incorporated into DNA.

"We looked into their claims that the <u>human cells</u> and machinery turned COVID-19 RNA into DNA, causing permanent mutations," Professor Faulkner said.

"We assessed the claims in cells grown in the laboratory, conducted DNA sequencing and found no evidence of COVID-19 in DNA.

"From a public health point of view, we would say that there are no concerns that the virus or vaccines can be incorporated into human DNA."

Professor Faulkner is a computational and <u>molecular biologist</u> with expertise in genomics and <u>transposable elements</u>—meaning his team studies DNA changes to determine how they impact human biology.

He is also affiliated with Mater Research Institute at UQ.

For the *Cell Reports* publication, he worked with virologists, including Associate Professor Daniel Watterson from UQ's School of Chemistry and Molecular Biosciences.

Associate Professor Watterson said the research confirmed there was no unusual viral activity and the COVID-19 behaviour was in line with what



was expected from a coronavirus.

More information: Nathan Smits et al, No evidence of human genome integration of SARS-CoV-2 found by long-read DNA sequencing, *Cell Reports* (2021). DOI: 10.1016/j.celrep.2021.109530

Provided by University of Queensland

Citation: Study: COVID-19 does not enter DNA (2021, July 30) retrieved 20 March 2024 from https://medicalxpress.com/news/2021-07-covid-dna.html

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