

# Human Exosome Isolation

## Introduction

I have sent many Freedom & Official Information Act Requests for the isolation of SARS-COV-2. Not a single organisation responded with any records. Critics could say that the question is invalid and that it's impossible to isolate anything as described. So I decided to challenge my critics by sending a new request; maintaining the exact same language but replacing SARS-COV-2 with human exosome. This document details the response that I have received.

Exosomes are relevant because exosomes are nearly identical to virus physically. This means the isolation techniques used for exosomes are directly applicable to virus. Here is a chart that lists the similarities of exosomes and virus.

Virus	Exosome
30nm to 160nm	30nm to 160nm
Has Receptors	Has Receptors
Single Stranded RNA	Single Stranded RNA
Buds out of Cells	Buds out of Cells
Manufactured inside the Cell	Manufactured inside the Cell

## Request Comparison

The table below shows the language used in both the requests for information. The only significant difference, is the use of the word SARS-COV-2 and exosome.

Isolation of SARS-COV-2	Isolation of Human Exosomes
<p>All records in the possession, custody or control of The University of <a href="#">Otago</a> describing the isolation of a <b>SARS-COV-2</b> virus, directly from a sample taken from a diseased patient, where the patient sample was not first combined with any other source of genetic material (<a href="#">i.e.</a> monkey kidney cells aka <a href="#">vero</a> cells; lung cells from a lung cancer patient).</p> <p>Please note that I am using "isolation" in the every-day sense of the word: <i>the act of separating a thing(s) from everything else</i>. I am not requesting records where "isolation of <b>SARS-COV-2</b>" refers instead to:</p> <ul style="list-style-type: none"><li>the culturing of something, or</li><li>the performance of an amplification test (<a href="#">i.e.</a> a <a href="#">PCR</a> test), or</li><li>the sequencing of something.</li></ul> <p>Please also note that my request is not limited to records that were authored by The University of <a href="#">Otago</a> or that pertain to work done by The University of <a href="#">Otago</a>. My request includes any sort of record, for example (but not limited to) any published peer-reviewed study that The University of <a href="#">Otago</a> has downloaded or printed.</p> <p>If any records match the above description of requested records and are currently available to the public elsewhere, please provide enough information about each record so that I may identify and access each record with certainty (<a href="#">i.e.</a> title, author(s), date, journal, where the public may access it).</p>	<p>All records in the possession, custody or control of the University of <a href="#">Otago's</a> Department of Anatomy describing the isolation of any <b>exosome</b>, directly from a sample taken from a human patient, where the patient sample was not first combined with any other source of genetic material (<a href="#">i.e.</a> monkey kidney cells aka <a href="#">vero</a> cells; lung cells from a lung cancer patient).</p> <p>Please note that I am using "isolation" in the every-day sense of the word: <i>the act of separating a thing(s) from everything else</i>. I am not requesting records where "isolation of <b>exosome</b>" refers instead to:</p> <ul style="list-style-type: none"><li>the culturing of something, or</li><li>the performance of an amplification test (<a href="#">i.e.</a> a <a href="#">PCR</a> test), or</li><li>the sequencing of something.</li></ul> <p>Please also note that my request is not limited to records that were authored by the University of <a href="#">Otago's</a> Department of Anatomy or that pertain to work done by the University of <a href="#">Otago's</a> Department of Anatomy. My request includes any sort of record, for example (but not limited to) any published peer-reviewed study that the University of <a href="#">Otago's</a> Department of Anatomy has downloaded or printed.</p> <p>If any records match the above description of requested records and are currently available to the public elsewhere, please provide enough information about each record so that I may identify and access each record with certainty (<a href="#">i.e.</a> title, author(s), date, journal, where the public may access it).</p>

## University of Otago's Response

The University of Otago has responded with a massive 331 documents relating to the isolation of human exosomes. They wrote the following:

**The University has decided to grant your amended request, and I supply to you as an attachment a list of 331 references which have been accessed by the relevant research group, and which relate to human exosome research. I note that the attached references may cover a wider scope than your request, but will include as a subset the relevant references in scope of that request.**

I had previously identified a few scientific papers that isolate human exosomes from unadulterated samples. One of the papers that I had identified was included in the Universities Response. The paper that I have personally verified is below:

14. *Baranyai T, Herczeg K, Onódi Z, et al. Isolation of exosomes from blood plasma: Qualitative and quantitative comparison of ultracentrifugation and size exclusion chromatography methods. PLoS One, 2015 - [link](#)*

The method and materials section is very detailed and describes the process of using Ultra Filtration, Ultra Centrifugation, Size-exclusion Chromatography, and Precipitation to actually isolate the exosomes. After the exosomes were isolated by the methods listed above, the exosomes were visualised by the Transmission Electron Microscopy (TEM).

This methods and materials section is a scientific process that correctly identifies and proves the existence of exosomes! This process has NOT been followed for the isolation of SARS-COV-2 !

Here is the official response from University of Otago.



### References

I will be working through the 331 references in the Official Response. As indicated by the response, at least some of the responses isolate exosomes from unadulterated samples. I am curious to see how many of the 331 meet the definition as I have described.

This section lists the references received in the Official Information Act Responses. WORK IN PROGRESS.

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ID	Reference	Real Isolation?