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Post-doc position available – development of bioengineered extracellular vesicles



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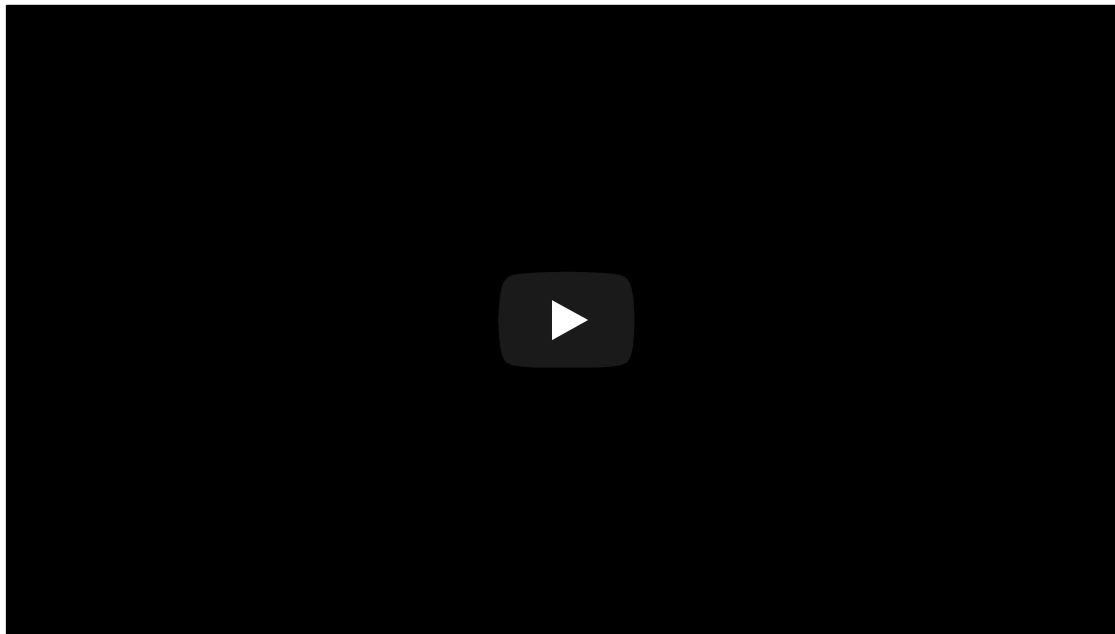
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## Is COVID-19 virus an Exosome?

Posted by: Exosome RNA Administrator in Presentations April 17, 2020 2 Comments 29,400 Views



### Ken Witwer+Jan Lötvall – the extracellular vesicle angle

For this video Jan Lötvall has invited Ken Witwer to discuss the overlap between extracellular vesicles (EV) and virus. Specifically we discuss the way by which enveloped viruses use the host membranes to produce virions (the virus particle). **DISCLAIMER:** Nothing said in this vlog-podcast should be considered to be final scientific facts, as we primarily introduce hypotheses and thoughts about the topic, even though these are educated. We also have a discussion how EVs could be involved in the disease, and how EVs from different sources could be utilized as therapeutics. Importantly, all of these comments are speculations, and do not convey any recommendation. All therapies to be tested in COVID-19 should undergo proper processes and approvals before being tested in patients.

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### RECENT EXOSOME

Exosomes in hypoxia-induced remodeling of the tumor microenvironment

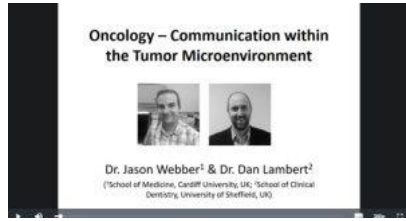
Shedding Light on the Role of Extracellular Vesicles in HIV Infection and Wound Healing

### NEWS IN PICTURE



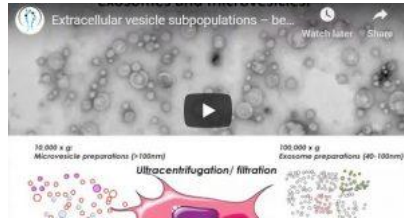
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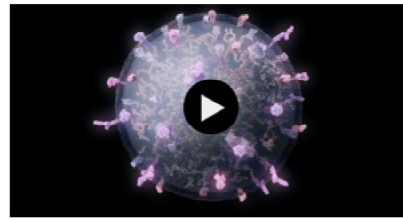
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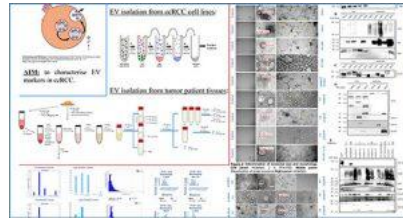
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Extracellular vesicles for early detection and optimized therapy in kidney cancer patients

🕒 January 10, 2020

## 2 COMMENTS



*Earl H. Lasson*  
April 28, 2020 at 3:40 pm

Hello,

Could you kindly provide a electron micrograph of both the corona-19 virus and the HIV virus.

And also with regards to the HIV virus, if possible, what the name is of the primary specialist peer reviewed paper in which the virus is illustrated and its full genetic information described

and

What is the name of the primary publication that provides proof that a particular virus is the sole cause of a particular disease

Pleased to hear, many thanks.

With best regards,  
Earl H. Lasson

Reply





JG

May 26, 2020 at 11:49 am

Hey guys,

Could someone smarter than myself explain to me why the routine methods used to purify and isolate exosomes, and extract their genetic material, is not used for 'viruses'?

We know EV's will be present in sick tissue, as well is in these petri dish cultures they use to "Find" viruses.

Why are EV's not mentioned in the viral discovery papers?

Why can I find a myriad of papers describing the difficulty in separating out exosomes/EV's from viruses, yet these aren't accounted for in viral discovery papers?

Can someone explain how the virologists can claim they isolate genetic material "from a virus", when they do not isolate said particles in the research?

Seems to be very bad methodology to me. If you're going to claim you've "found" something, that thing should be isolated, purified, have it's genetic material extracted, AND also be proven to cause a "same" type of disease, after it has been transferred to a host in a PHYSIOLOGIC manner.

I haven't found this done yet.

Seems the exosome research is much further advanced than virology, and I would think the many great techniques used in EV research could be put to use in clarifying the above issues.

Thanks!

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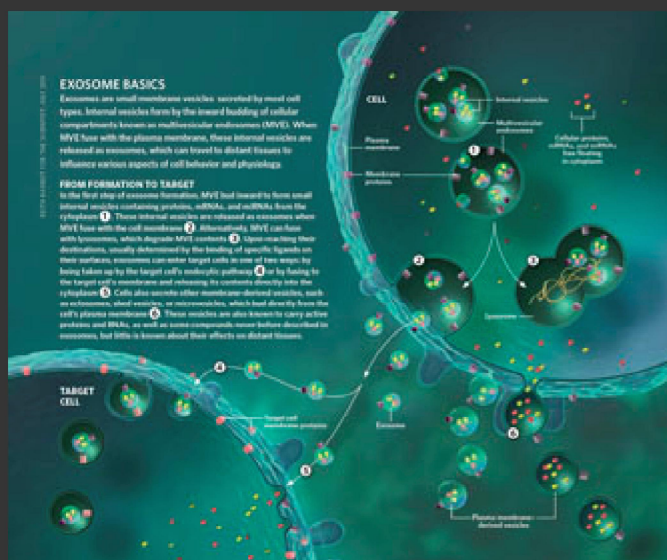
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## WHAT IS EXOSOME RNA?

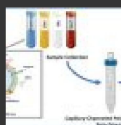
Exosomes are cell-derived vesicles that are present in many and perhaps all biological fluids, including blood, urine, and cultured medium of cell cultures. Exosomes contain various molecular constituents of their cell of origin, including proteins and RNA. It is becoming increasingly clear that exosomes have specialized functions and play a key role in, for example, coagulation, intercellular signaling, and waste management.

*from wikipedia*



The Scientist - Théry (2011)

## RECENT NEWS



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