

**To:** (10)(2e) - TNW[(10)(2e)@tudelft.nl]; (10)(2e)  
 (10)(2e) [(10)(2e)@rivm.nl]; (10)(2e) [(10)(2e)@rivm.nl]  
**Cc:** (10)(2e) - TNW[(10)(2e)@tudelft.nl]  
**From:** (10)(2e) - TNW  
**Sent:** Sat 5/30/2020 2:55:11 PM  
**Subject:** RE: Further inquiries  
**Received:** Sat 5/30/2020 2:55:49 PM  
[Cell lysis & Protein extraction protocol.pdf](#)  
[Protein digestion protocol.pdf](#)

Hi (10)(2e)

I think that's a good point, and could be checked by a kind of affinity proteomics approach. The other possibility is that glycosidases and proteases simply trim/graze the surface proteins, and thereby inactivate the virus. It would be great therefore to get the cell culture/virus lysates for testing.

@ (10)(2e) I have attached the typical sample preparation protocols for cell lysis, protein extraction and digestion. We could simply start with a complete cell culture lysate.

Best,

(10)(2e)

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**From:** (10)(2e) - TNW  
**Sent:** zaterdag 30 mei 2020 9:45  
**To:** (10)(2e) - TNW; (10)(2e); (10)(2e)  
**Cc:** (10)(2e) - TNW  
**Subject:** RE: Further inquiries

Or could the glycosylation of the spike protein be targeted? Material in the gut might bind on it and inactivate thereby the binding on the virus?

(10)(2e)

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**From:** (10)(2e) - TNW <(10)(2e)@tudelft.nl>  
**Sent:** Friday, 29 May 2020 12:08  
**To:** (10)(2e) <(10)(2e)@rivm.nl>; (10)(2e) - TNW <(10)(2e)@tudelft.nl>; (10)(2e) <(10)(2e)@rivm.nl>  
**Cc:** (10)(2e) - TNW <(10)(2e)@tudelft.nl>  
**Subject:** RE: Further inquiries

Dear (10)(2e)

Regarding your question. That might be not impossible, and if not by means of mass spec, possibly by means of any other affinity/staining assay. We just would need to have a standard to work with and test what type of peaks we get.

Best,

(10)(2e)

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**From:** (10)(2e) [(10)(2e)@rivm.nl]  
**Sent:** vrijdag 29 mei 2020 11:53  
**To:** (10)(2e) - TNW; (10)(2e) - TNW; (10)(2e)  
**Cc:** (10)(2e) - TNW  
**Subject:** Further inquiries

Hi all,

Reading up because of updating the WHO Technical guidance document on WASH and COVID-19 (<https://www.who.int/publications-detail/water-sanitation-hygiene-and-waste-management-for-the-covid-19-virus-interim-guidance>) I found the following: human colonic fluids can inactivate newly synthesized viruses released into the intestinal lumen. Since we would really like to know whether there may be infectious SARS-CoV-2 and subsequent health risk to workers can you quantitatively detect components originating from the human colonic

fluids that are in the wastewater because maybe some wastewaters still pose a health risk but others not in terms of PPE?

Glad to hear your thoughts,

(10)(2e)

-----Original Appointment-----

**From:** (10)(2e) - TNW <(10)(2e)@tudelft.nl>

**Sent:** dinsdag 26 mei 2020 12:59

**To:** (10)(2e) - TNW; (10)(2e)

**Cc:** (10)(2e); (10)(2e) - TNW

**Subject:** Monsters afvalwater

**When:** woensdag 27 mei 2020 14:30-15:15 (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna.

**Where:** Skype Meeting

Mark is not available at the time proposed for Thursday. Does that work instead?  
Best regards,  
Martin

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