

Safety netting and referral

The patient should seek medical advice if concerned, for example:

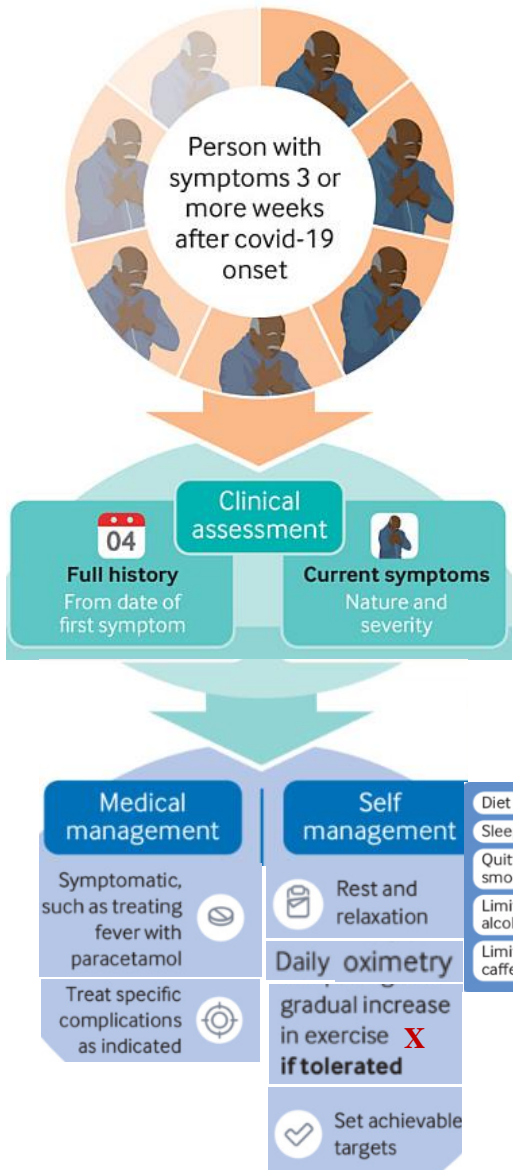
- Worsening breathlessness
- PaO₂ < 96%
- Unexplained chest pain
- New confusion
- Focal weakness

Specialist referral may be indicated, based on clinical findings, for example

- Respiratory** if suspected pulmonary embolism, severe pneumonia
- Cardiology** if suspected myocardial infarction, pericarditis, myocarditis or new heart failure
- Neurology** if suspected neurovascular or acute neurological event

Pulmonary rehabilitation may be indicated if patient has persistent breathlessness following review

Neurological Issues
 R_x ₂



R_x ₃
 Anti-viral Agents

Investigations

Clinical testing is not always needed, but can help to pinpoint causes of continuing symptoms, and to exclude conditions like pulmonary embolism or myocarditis. Examples are provided below:

Blood tests

- Full blood count
- Electrolytes
- Liver and renal function
- Troponin
- C reactive protein
- Creatine kinase
- D-dimer
- Brain natriuretic peptides
- Ferritin – to assess inflammatory and prothrombotic states

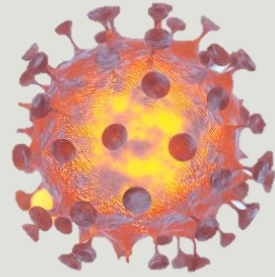
Other investigations

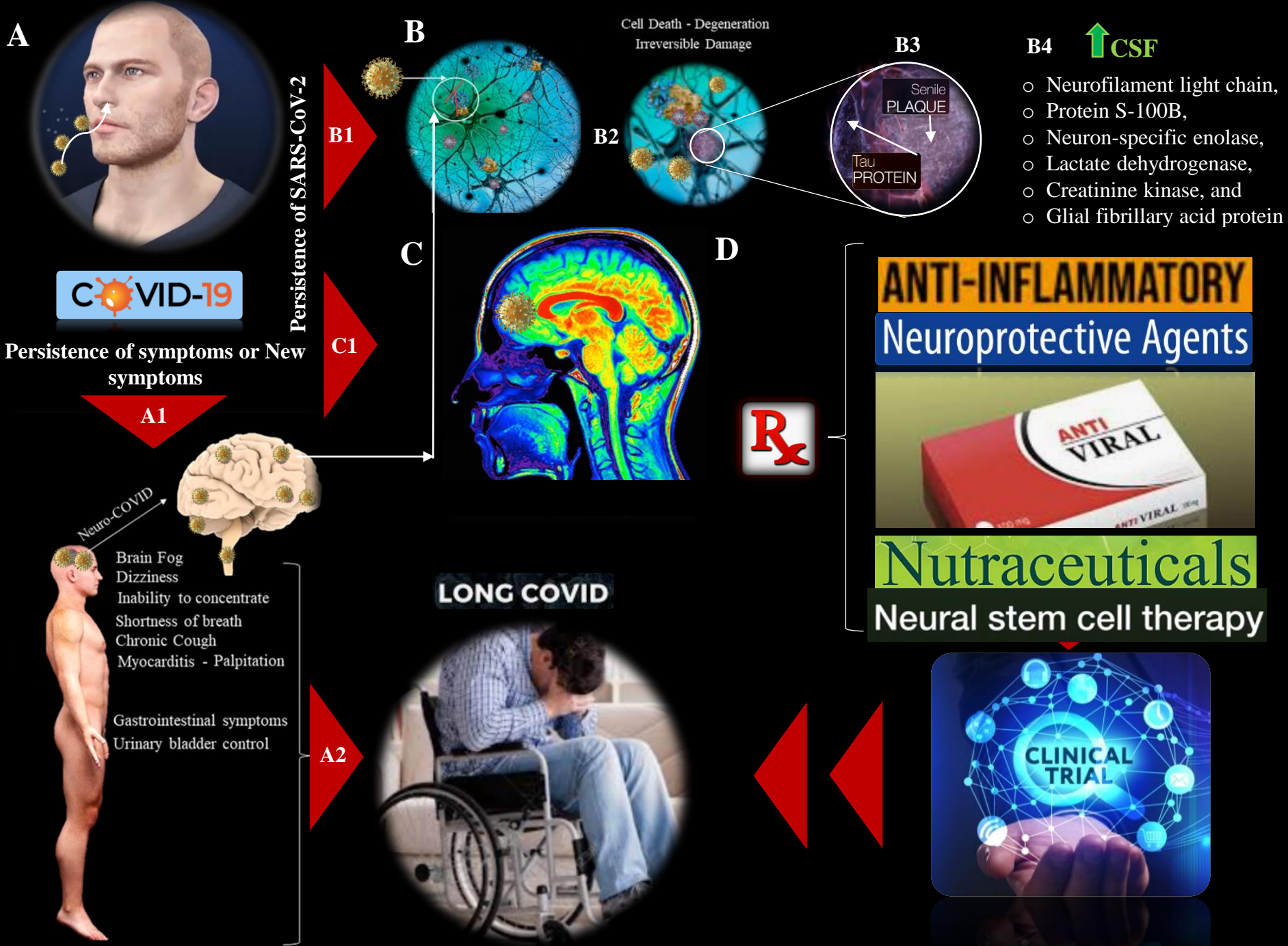
- Chest x ray
- Urine tests
- 12 lead electrocardiogram
- S-CoV-2 PCR +ve

R_x ₁
 Prothrombotic States

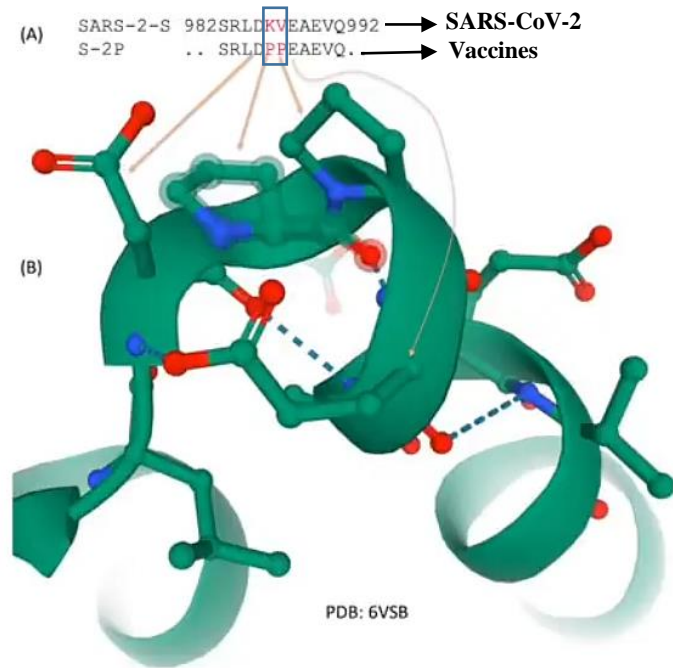
A

'Neuro' COVID-19

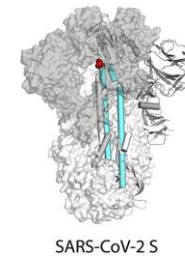




The Spike Glycoprotein Differences



Furin Cleavage Site
 RRAR ?

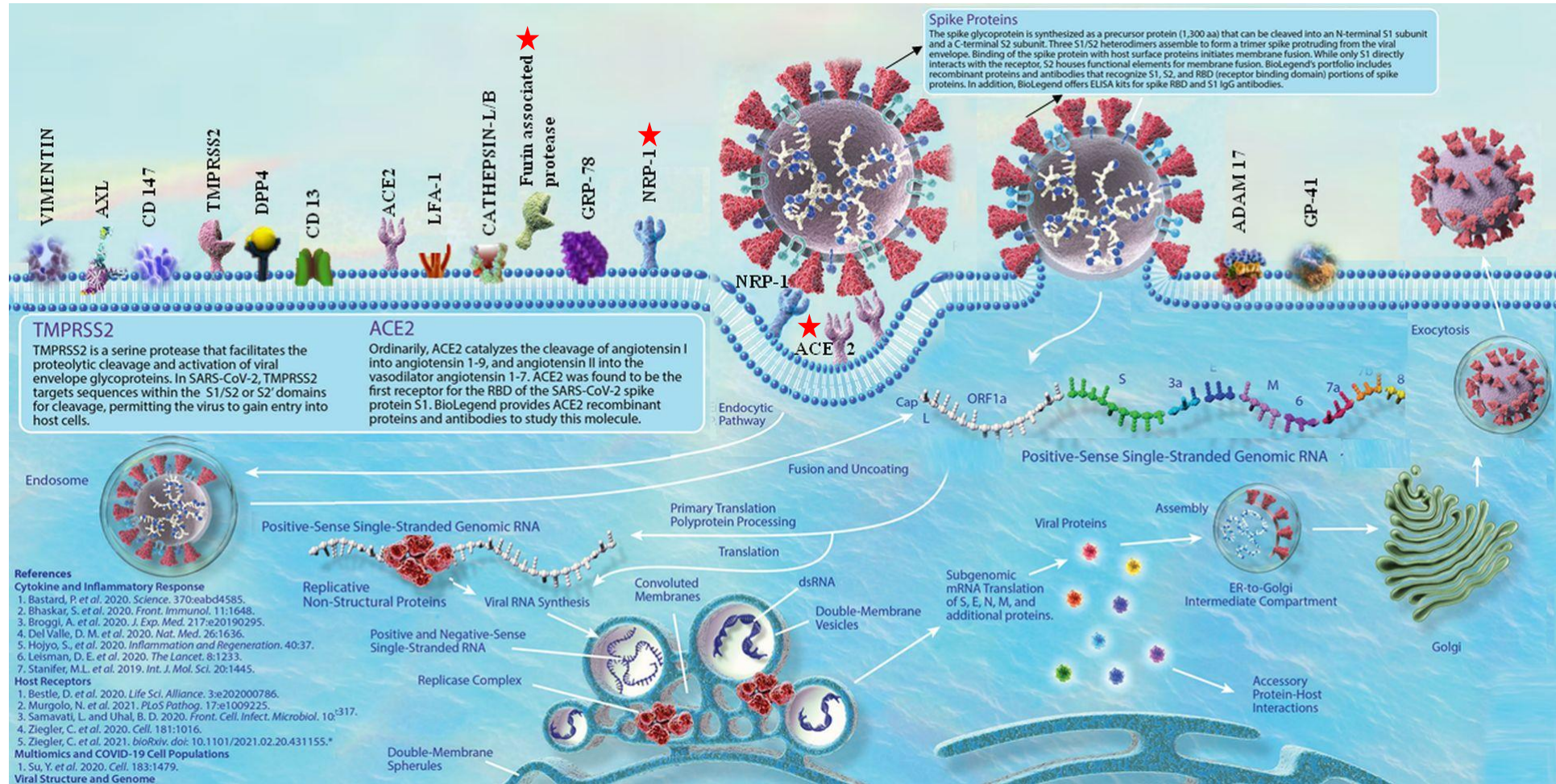


2020

Figure 5. Two amino acid replacements that stabilize the spike protein at the prefusion state. (A) Amino acids KY in the native state of SARS-2-S is replaced by PP spike variant S-2P used in the FDA-approved Pfizer/BioNTech and Moderna vaccine; (B) Partial structure from 6VSB showing the two proline residues stabilizing the structural bend.

The X-ray or cryo-EM structures of the pre-fusion forms of the indicated class I fusion proteins are indicated, together with the years they were obtained

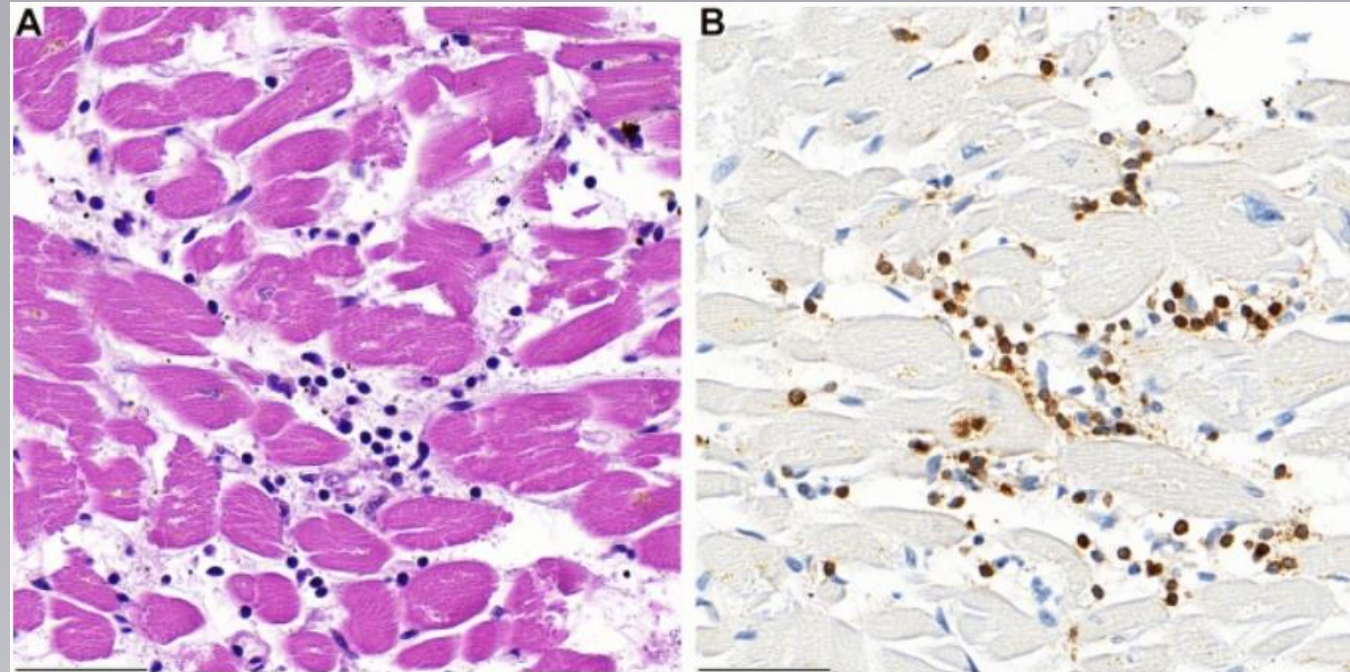
SARS-CoV-2 Virus Entry



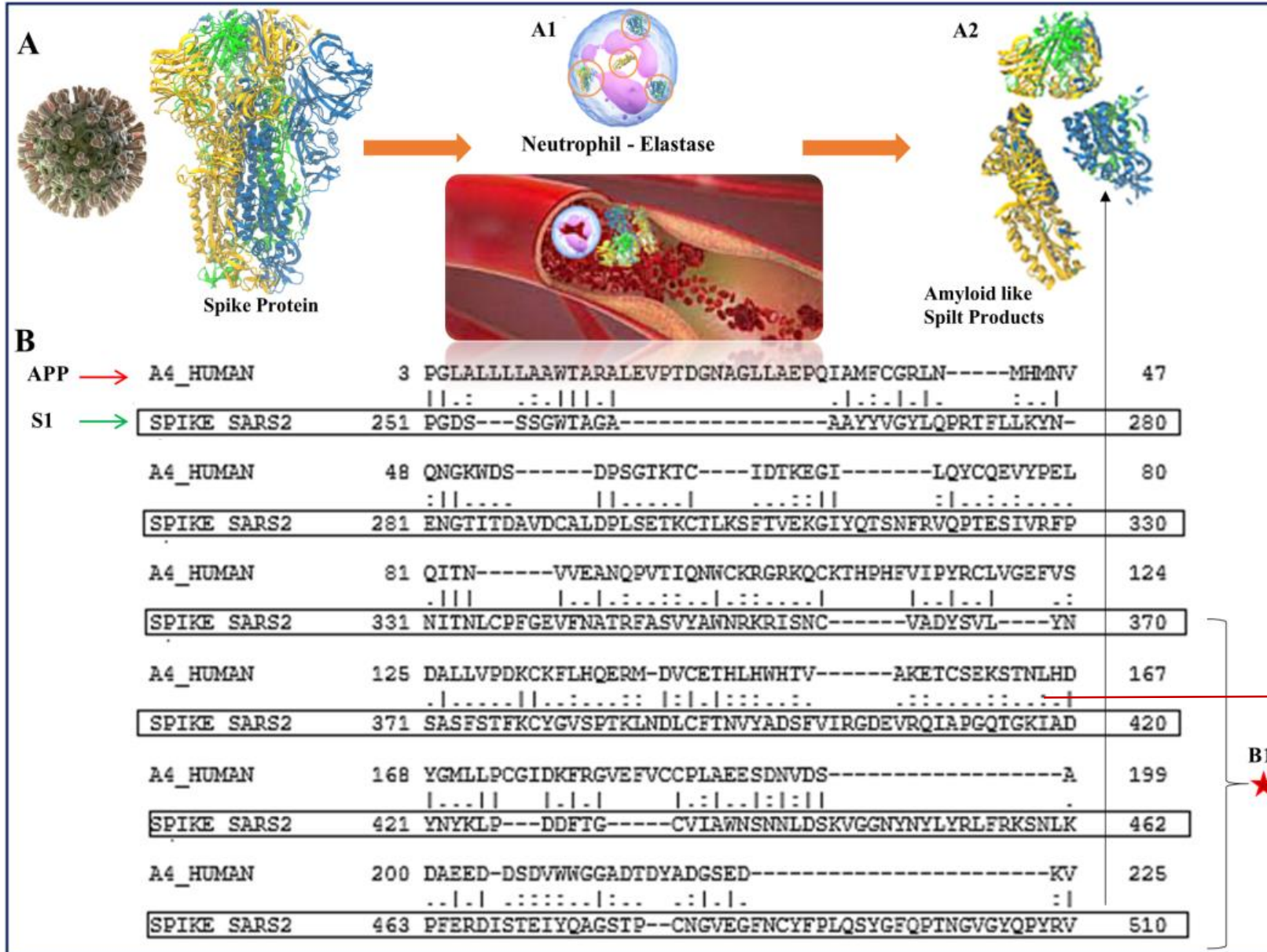
EVIDENCE



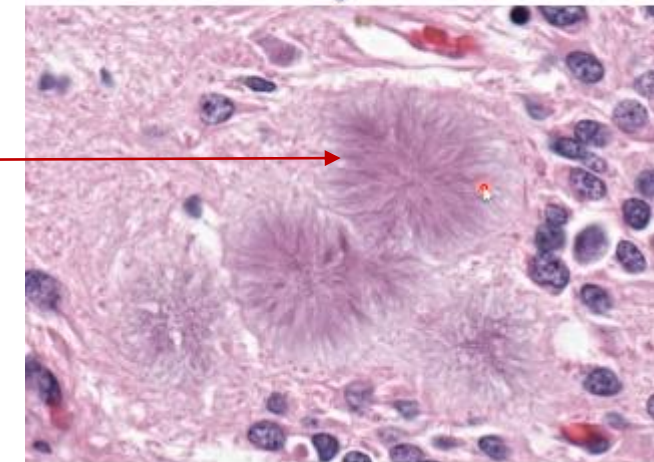
Autopsy-based histopathological characterization of myocarditis after anti-SARS-CoV-2-vaccination



NOVEL



Tissue: Amyloid Plaques





15:19 LIVE

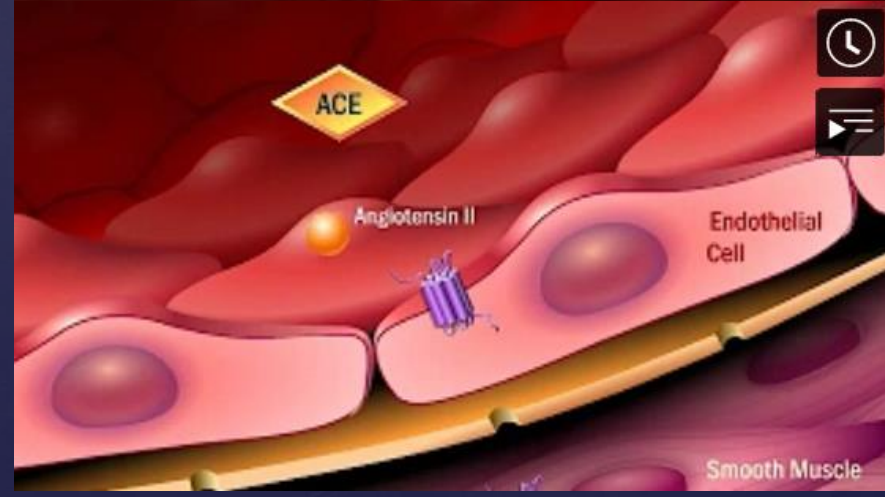


COVID-19 VACCINE

28 PEOPLE DIED AFTER TAKING JAB **eNCA**

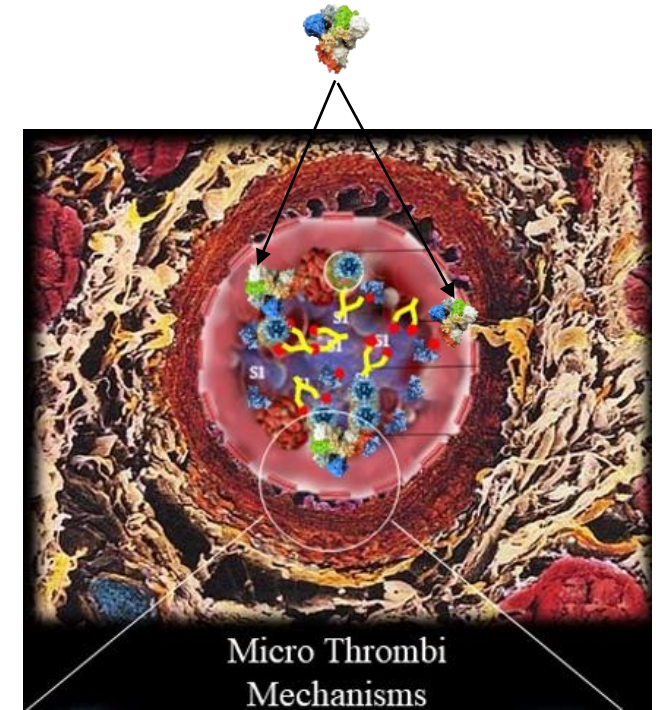
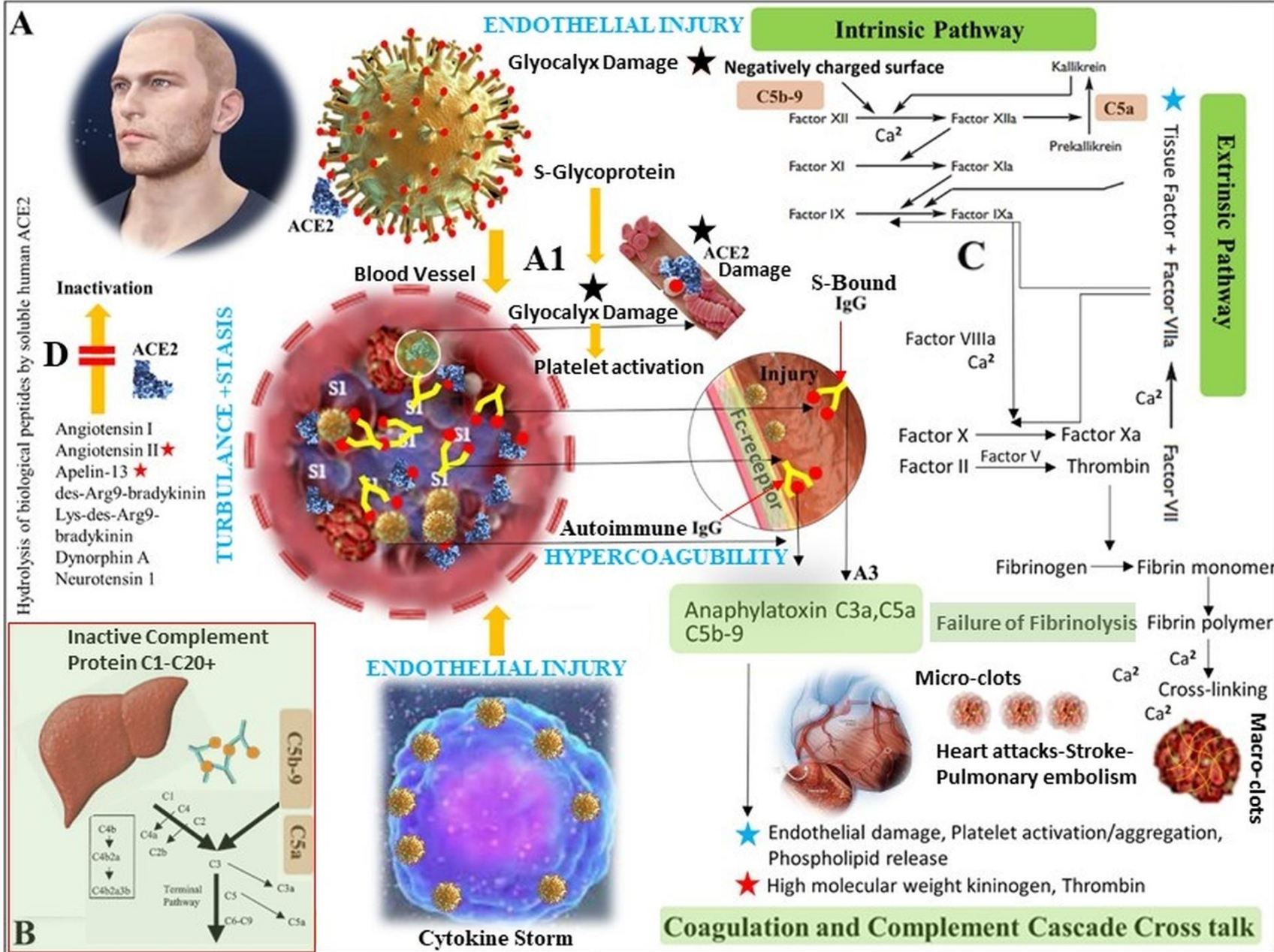


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CASCADE

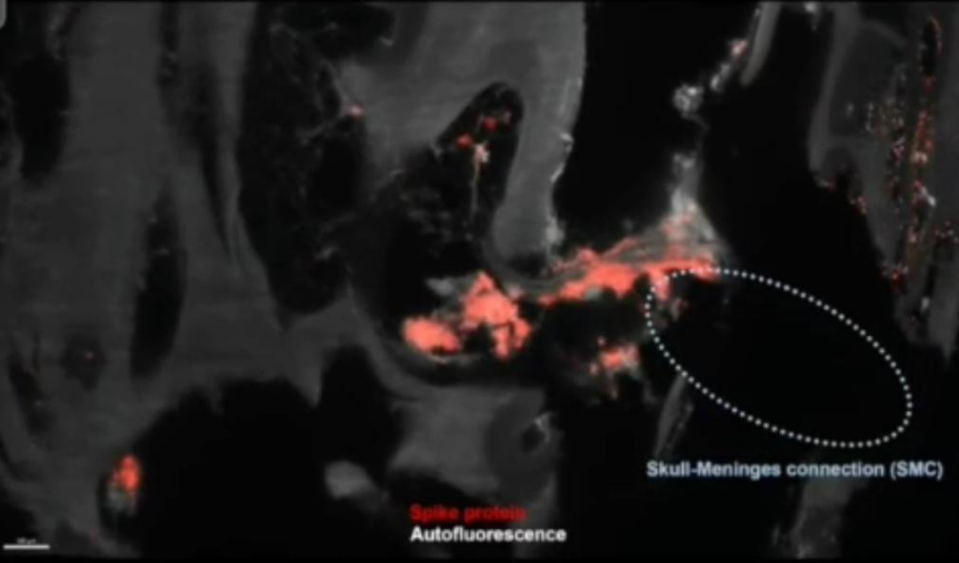


60% of all!!! Sars CoV 2 infected have persistent spike in the bone marrow of the skull and god knows where else. This has to be removed

**SARS-CoV-2 Spike Protein
Accumulation in the Skull-Meninges-
Brain Axis: Potential Implications for
Long-Term Neurological
Complications in post-COVID-19**

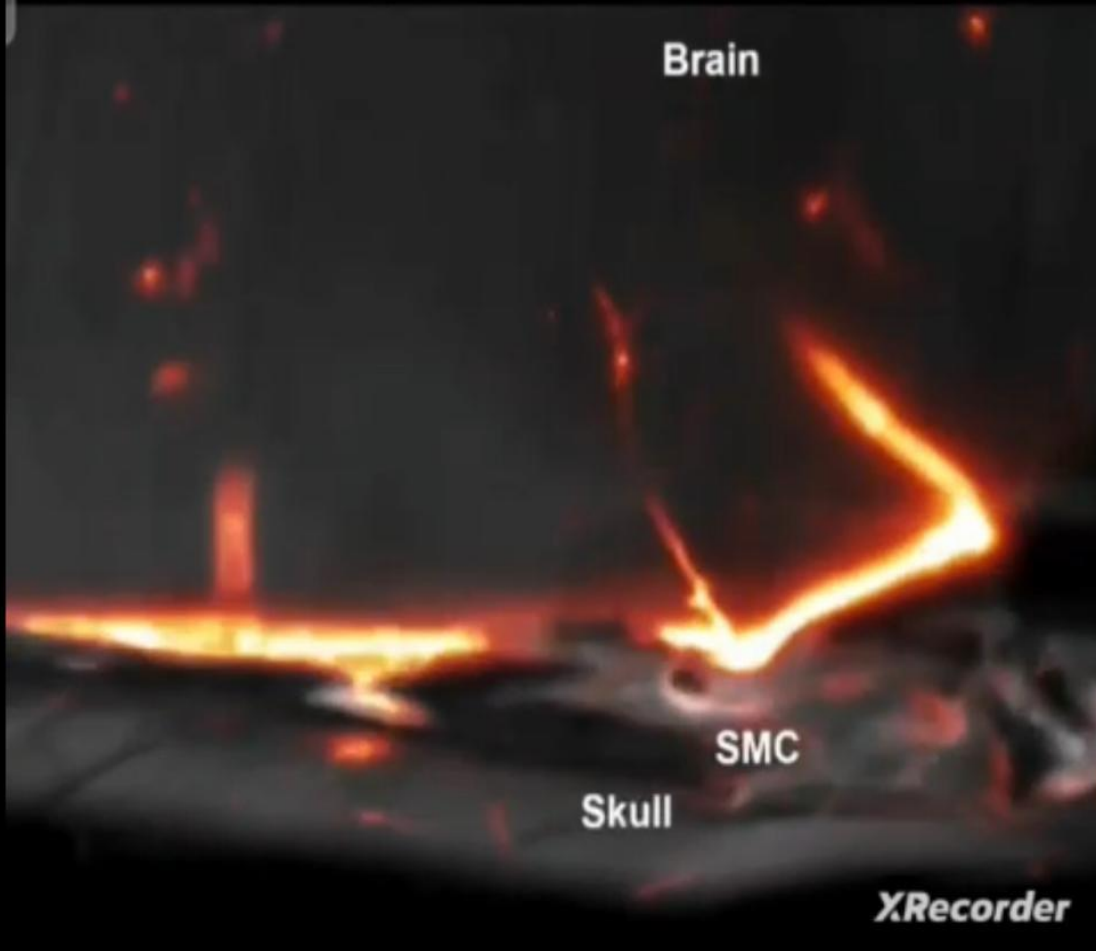
Zhouyi Rong, Hongcheng Mai, Saketh Kapoor,
Victor G. Puelles, Jan Czogalla, Julia Schädler,

Surprisingly, random sampling of skulls from deceased people, 29% (10 in 34) of population or

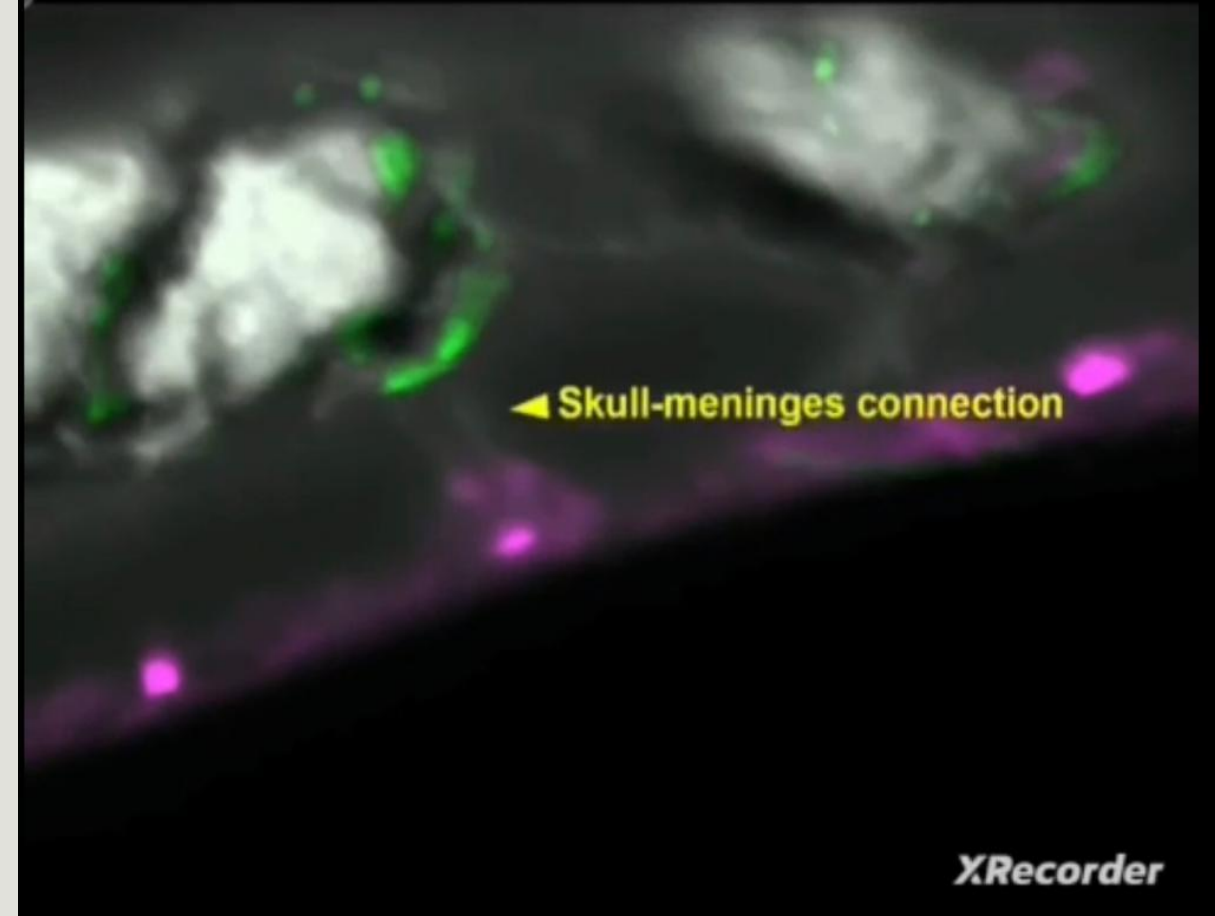


~60% of people who had COVID in the past had a long-lasting spike protein in their skull XRecorder

Skull and meninges accumulated enormous amounts of spike



We also observed spike protein in skull-meninges connections (SMCs)



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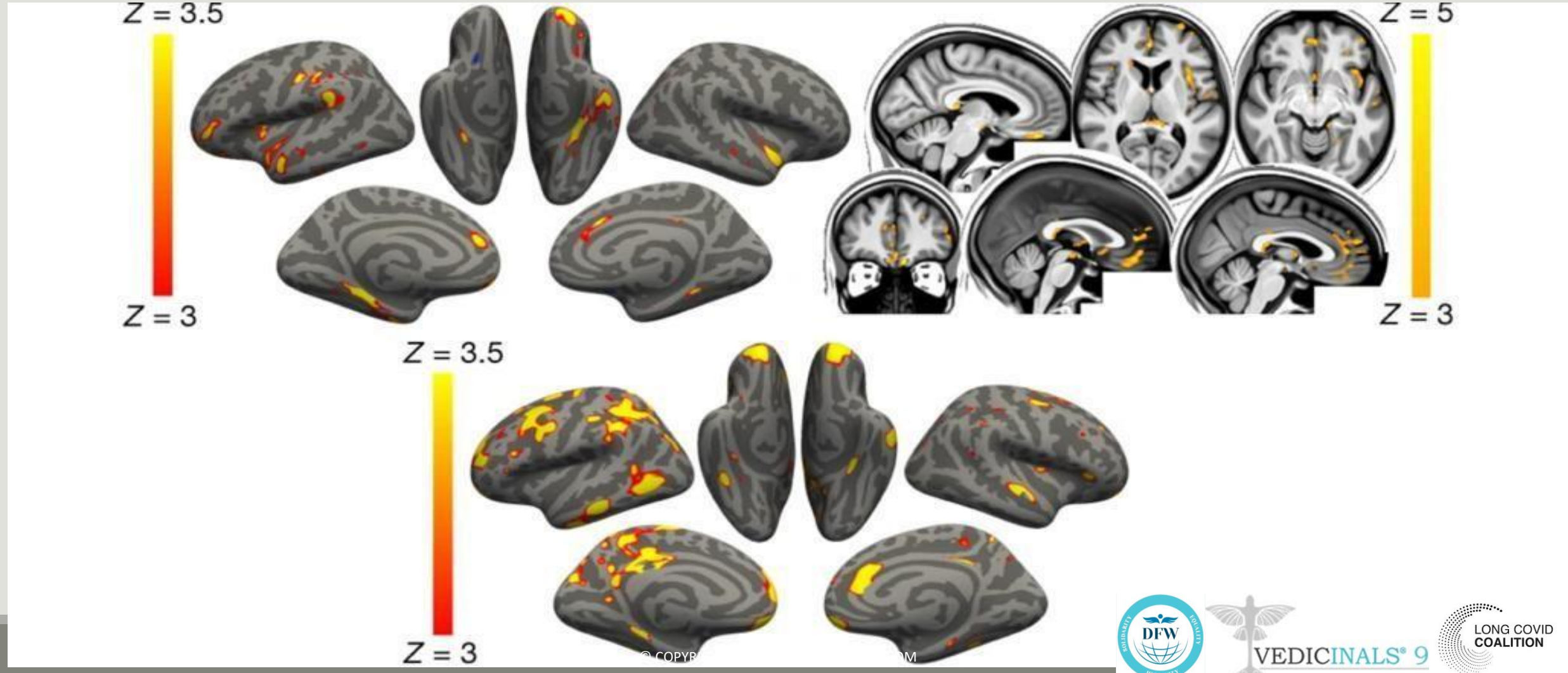


Article | [Open Access](#) |
[Published: 07 March 2022](#)

SARS-CoV-2 is associated with changes in brain structure in UK Biobank

Comparing the two groups, including (1) a greater reduction in grey matter thickness and tissue contrast in the orbitofrontal cortex and parahippocampal gyrus; (2) greater changes in markers of tissue damage in regions that are functionally connected to the primary olfactory cortex; and (3) a greater reduction in global brain size in the SARS-CoV-2 cases.

More pronounced reduction of grey matter thickness and contrast in the participants infected with SARS-CoV-2 in the left parahippocampal gyrus and lateral orbitofrontal cortex




NEURO INFLAMMATION



Research Article

Neuroscience

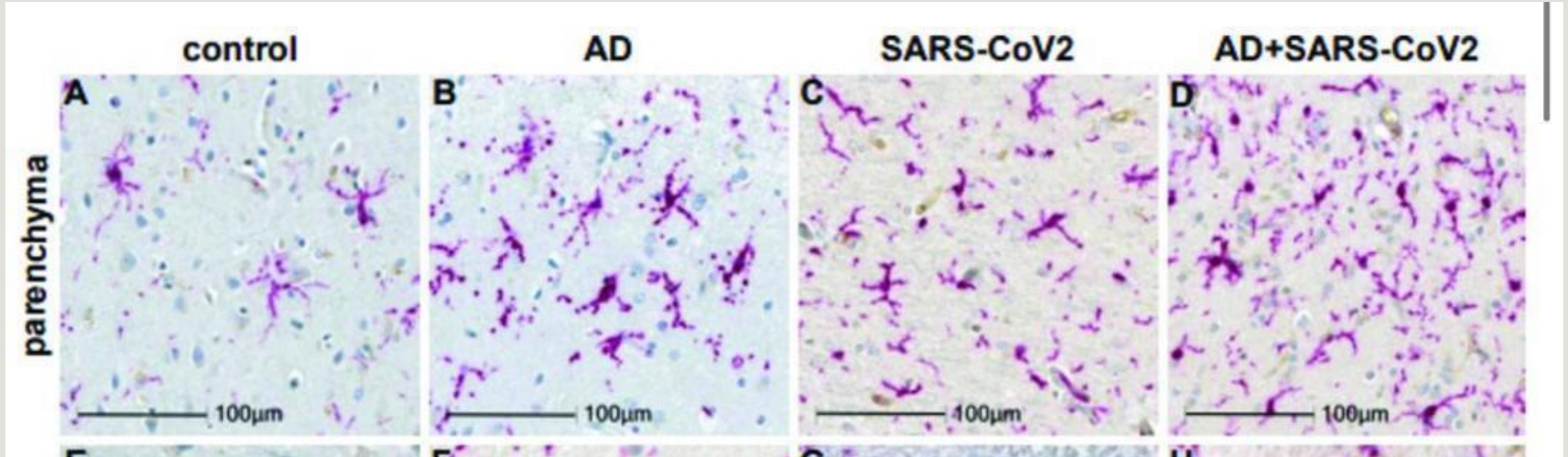
Recapitulation of pathophysiological features of AD in SARS-CoV-2-infected subjects

Elizabeth Griggs, Kyle Trageser ... Giulio Maria Pasinetti  et al.

Jul 7, 2023 · <https://doi.org/10.7554/eLife.86333>  



SARS-CoV-2 generates a similar neuroinflammatory environment in neurodegenerative disorders like AD.



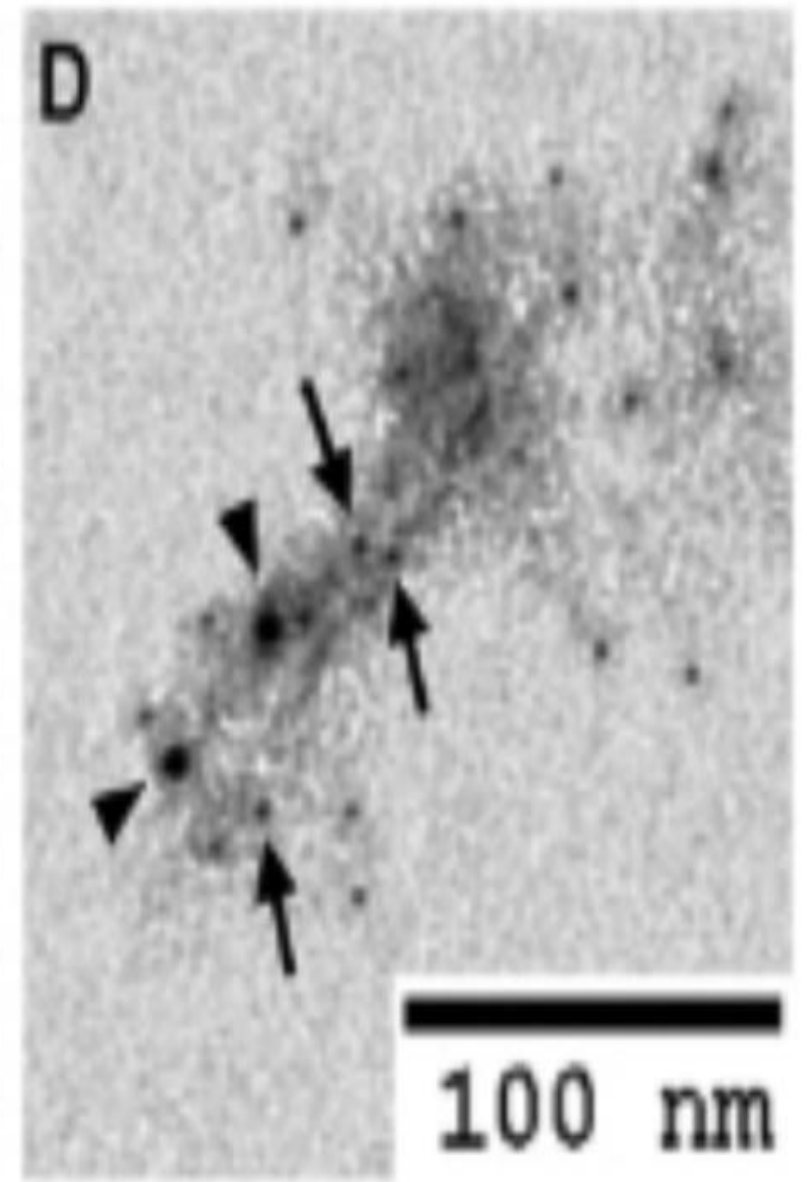
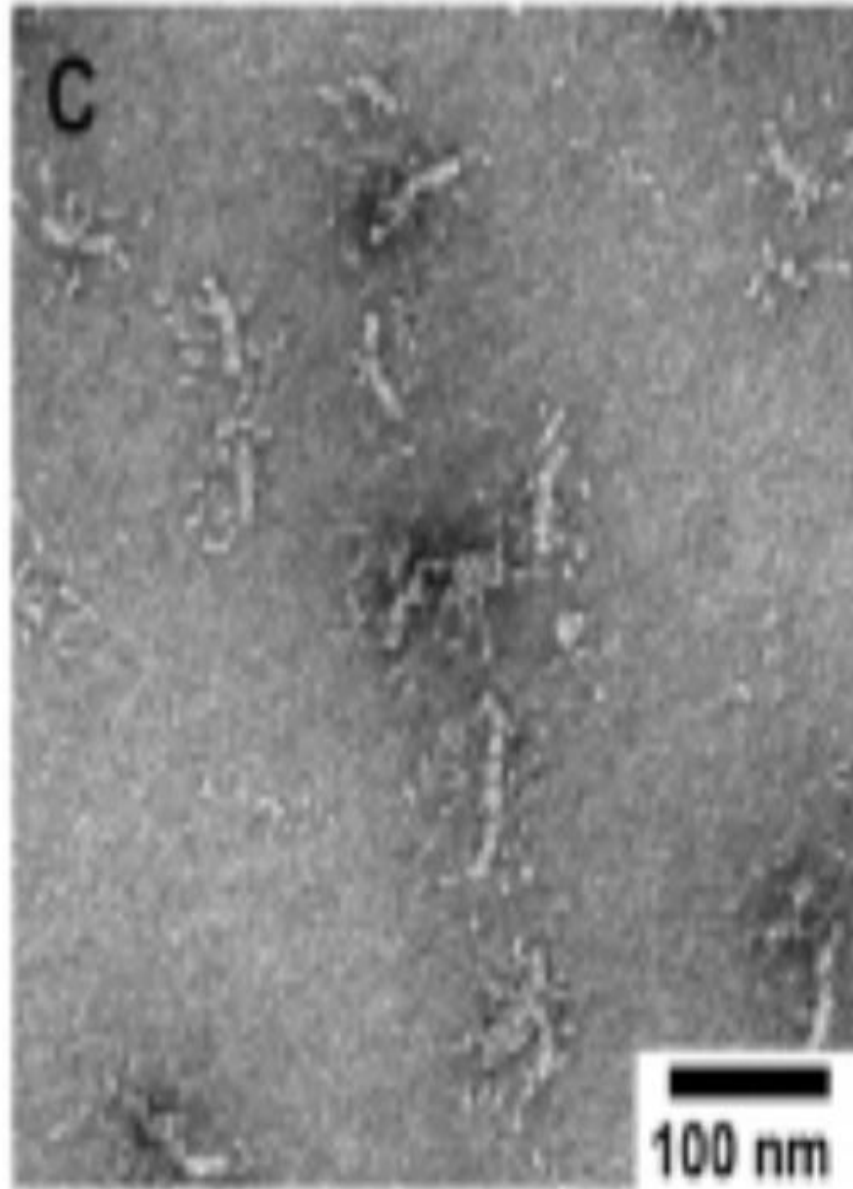
Microgliosis and nodular lesions in neurological controls, SARS-CoV-2, Alzheimer's disease (AD), and SARS-CoV-2-infected AD individuals. Level of microglial activation.

Alzheimer's disease peptide β -amyloid interacts with fibrinogen and induces its oligomerization

[Hyung Jin Ahn](#), [Daria Zamolodchikov](#), [Marta Cortes-Canteli](#),  , and [Sidney Strickland](#)  [Authors Info & Affiliations](#)

Edited* by Anthony Cerami, Kenneth S. Warren Laboratories, Ossining, NY, and approved October 29, 2010 (received for review August 3, 2010)

(C and D) TEM images were obtained from fibrinogen oligomers purified using size-exclusion chromatography. Immunogold labeling shows that oligomer is composed of both A β and fibrinogen (D). A β 42-fibrinogen oligomers were labeled with anti-fibrinogen antibody (6 nm gold; arrow) and anti-A β antibody (12 nm gold; arrowhead). This result represents multiple experiments.

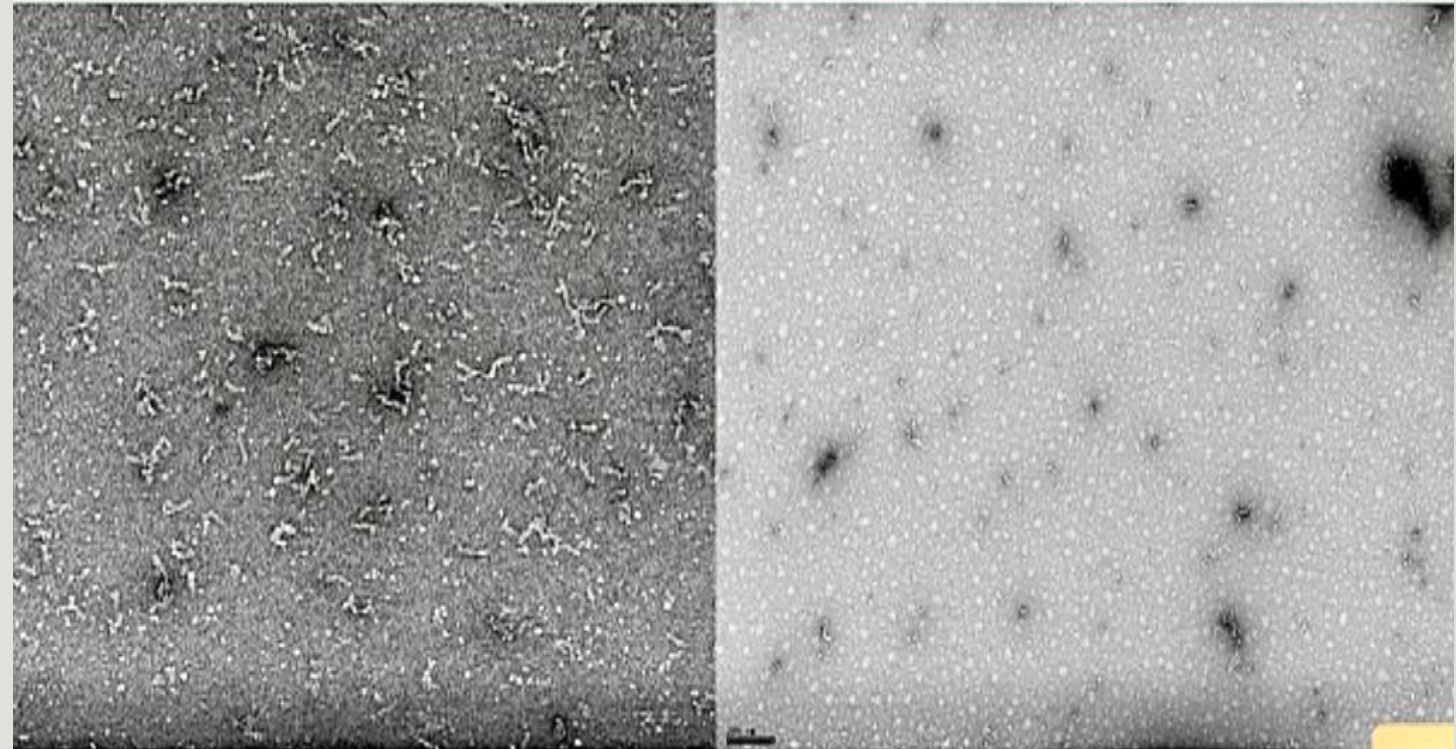


Resveratrol Brain Delivery for Neurological Disorders Prevention and Treatment

[Stephanie Andrade,[†]](#) [Maria João Ramalho,[†]](#) [Maria do Carmo Pereira,](#) and [Joana A. Loureiro^{*}](#)

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The left side of the figure represents the incubation of A β 1–42 without RES, and the right side shows A β 1–42 incubated with RES. As shown in the figure RES prevented the formation of amyloid fibrils.



The melatonin concentration-time profiles in plasma and CSF are comparable to those after intravenous delivery.

Uptake of Melatonin into the Cerebrospinal Fluid After Nasal and Intravenous Delivery: Studies in Rats and Comparison with a Human Study

June 2004 · Pharmaceutical Research 21(5):799-802

DOI:10.1023/B:PHAM.0000026431.55383.69

Source · PubMed




VEDICINALS® 9



We propose that the high levels of melatonin secreted by the pineal gland directly into the CSF play a role in flushing pathological molecules such as amyloid- β peptide ($A\beta$) from the brain via this network.

Brain washing and neural health: role of age, sleep, and the cerebrospinal fluid melatonin rhythm

Russel J. Reiter¹ · Ramaswamy Sharma¹  · Maira Smaniotto Cuciolo² · Dun Xian Tan³ · Sergio Rosales-Corral⁴ · Giuseppe Gancitano⁵ · Luiz Gustavo de Almeida Chuffa²

Melatonin could be a novel and effective medication in the therapy of prion diseases.

Melatonin regulates mitochondrial dynamics and alleviates neuron damage in prion diseases

[Xixi Zhang](#),¹ [Deming Zhao](#),¹ [Wei Wu](#),¹ [Syed Zahid Ali Shah](#),² [Mengyu Lai](#),¹ [Dongming Yang](#),¹ [Jie Li](#),¹ [Zhiling Guan](#),¹ [Wen Li](#),¹ [Hongli Gao](#),¹ [Huafen Zhao](#),¹ [Xiangmei Zhou](#),¹ and [Lifeng Yang](#)^{✉1}



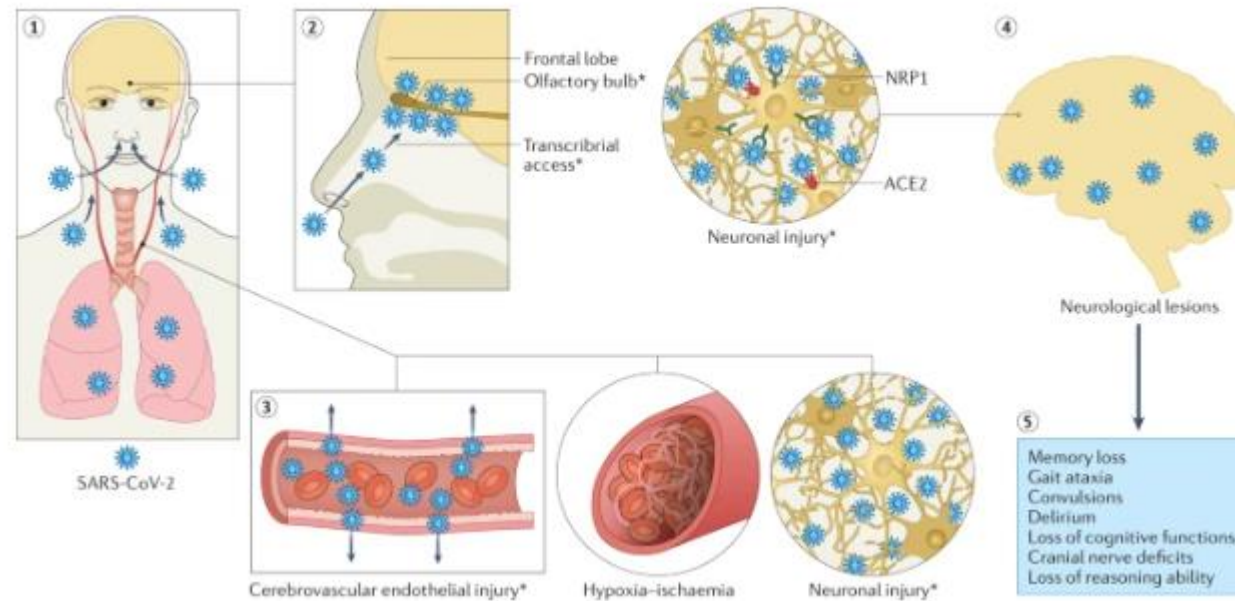
Counting the neurological cost of COVID-19

Abdul Mannan Baig 

Nature Reviews Neurology 18, 5–6 (2022) | [Cite this article](#)

123k Accesses | 13 Citations | 5153 Altmetric | [Metrics](#)

Fig. 1: COVID-19-related neurological deficits.



The figure illustrates proposed routes of the spread of SARS-CoV-2 across the CNS and the possible mechanisms involved in neuronal injury in COVID-19. Mechanisms indicated by asterisks were proposed on the basis of data that emerged from hospitals in Wuhan, China in the first two months of 2020 (ref.³). SARS-CoV-2 produces viral loads in the oral cavity and nose (1) that cause infection of the olfactory mucosa and olfactory bulb⁴ to reach the brain (2–4). Viral budding from neuronal cells in the frontal lobe has been documented⁷. Vascular mechanisms that can cause neuronal damage are shown

Newly developed nasal spray

Contains a proprietary mix of compounds that can help to reduce neuro inflammation and help glymphatic clearance.







Featured research  **Joachim Gerlach**
Health Shield GmBH

Title: Management of mild to moderate COVID-19 patients supplemented with "Vedicinals- 9" as an adjuvant phyto-nutraceutical to prevent disease progression and improve clinical conditions: a randomized, multi-centered, exploratory study

New Experiment Findings File available

August 2023



 Yogendra Kumar ·  Choudhary 1  Joachim Gerlach · [...] ·  Neetu

Effects of COVID-19 and vaccination on the human immune system: cases of lymphopenia and autoimmunity

New Article Full-text available


June 2023

Future Virology

 Joachim Gerlach ·  Abdul Mannan Baig

Source





15 Reads


 Most read in the last month

Series of Organ Effects of Vedicinals-9: Vedicinals -9 and Cardioprotection

New Experiment Findings File available

July 2023

 Joachim Gerlach ·  Pralhad Wangikar et.al ·  Abdul Mannan Baig ·  Prakash Salunke





 Most recommended in the last month

Long-COVID and its Physical and Neurological Symptoms in Adults: A Systematic Review

New Article Full-text available

April 2023

Pakistan Journal of Medical & Health Sciences

 Abdul Mannan Baig ·  Sameera Rizvi ·  Shahla Pardhan · [...] ·  Tazeen S Ali

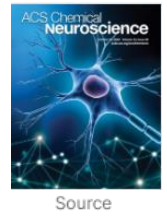
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Underlying Causes and Treatment Modalities for Neurological Deficits in COVID-19 and Long-COVID

Article Full-text available October 2022

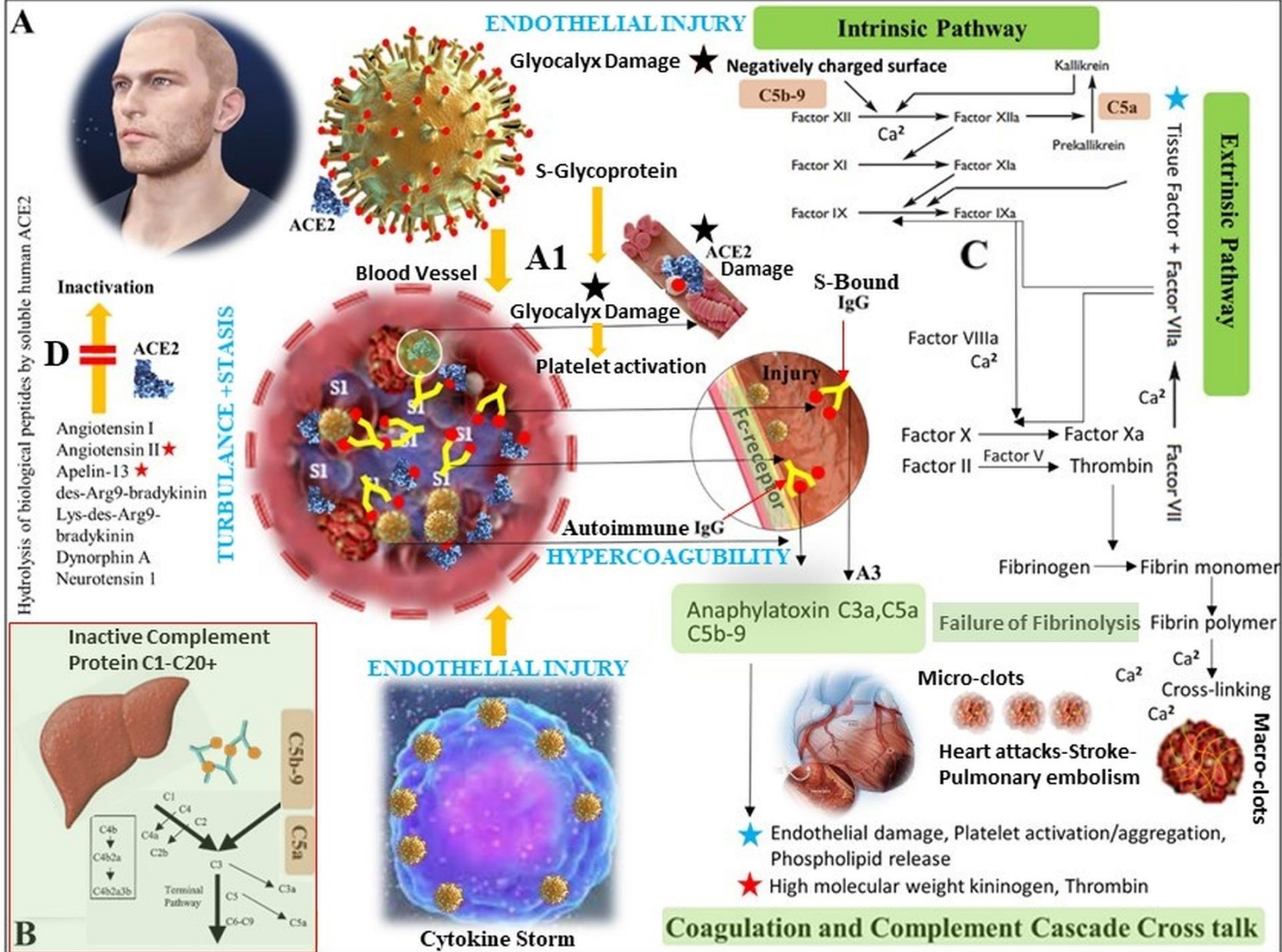
ACS Chemical Neuroscience

 Abdul Mannan Baig ·  Nigel H. Greig ·  Joachim Gerlach · [...] ·  Tazeen S Ali



CASCADE

 Spike-protein



R_x₁ Prothrombotic Sates

Drugs and Herbal Compound with potential to combat Long-COVID

1- Antiplatelet, anticoagulant, and profibrinolytic activities of **baicalin**★ **JOURNALS**
Arch Pharm Res. 2015

<https://pubmed.ncbi.nlm.nih.gov/24849036/>

2- Ingestion of **quercetin**★ inhibits platelet aggregation and essential components of the collagen-stimulated platelet activation pathway in humans

<https://pubmed.ncbi.nlm.nih.gov/15613018/>

J Thromb Haemost. 2004

3- Efficacy of Venarus (Diosmin – **Hesperidin**)★
in treatment of patients with post-thrombotic disease of lower limbs

Clinical Trial
Angiol Sosud Khir. 2014

<https://pubmed.ncbi.nlm.nih.gov/25490361/>

4- **Curcumin**★ inhibits GPVI-mediated platelet activation

Platelets 2010

<https://pubmed.ncbi.nlm.nih.gov/20158382/>

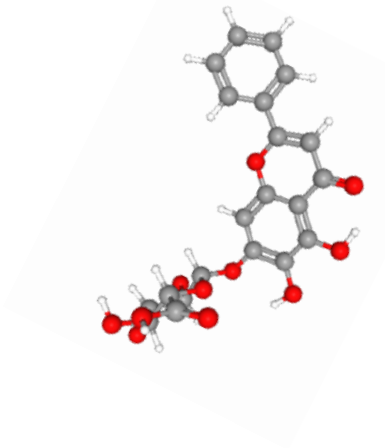
5- **Piperine**★ Inhibits the Activities of Platelet Cytosolic Phospholipase A2 and Thromboxane A2 Synthase

<https://pubmed.ncbi.nlm.nih.gov/25153972/>

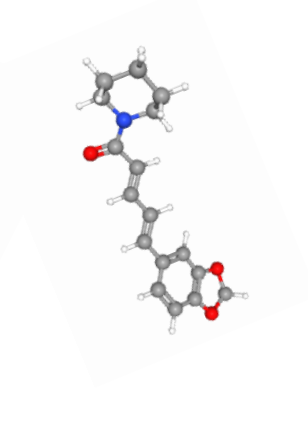
Nutrients 2014



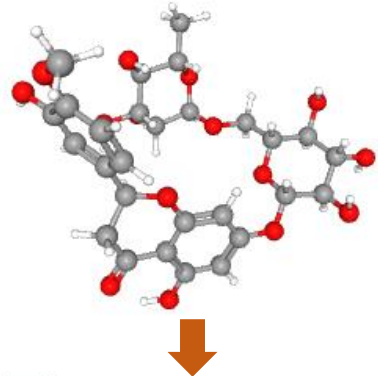
Baicalin



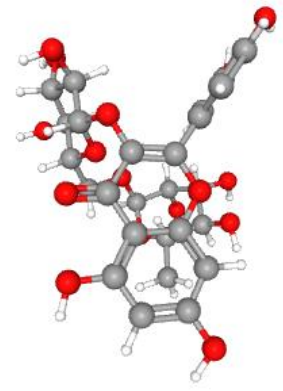
Piperine



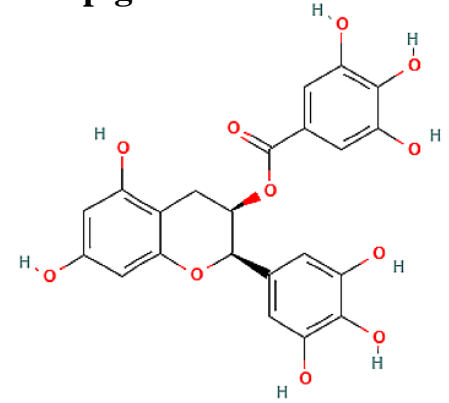
Hesperidin



Rutin



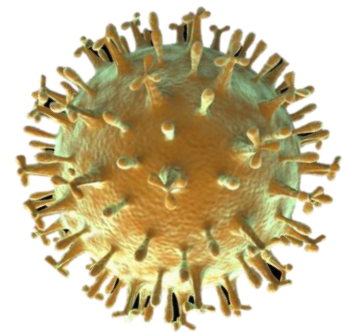
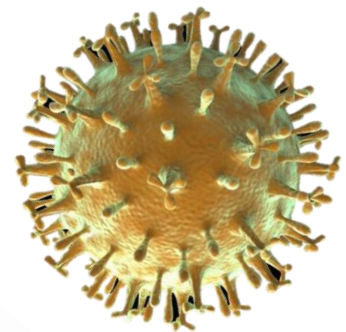
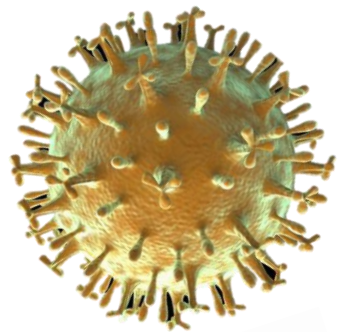
Epigallocatechin Gallate



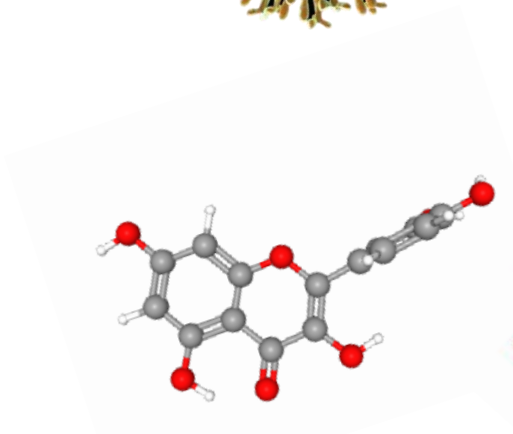
NIH U.S. National Library of Medicine

ClinicalTrials.gov

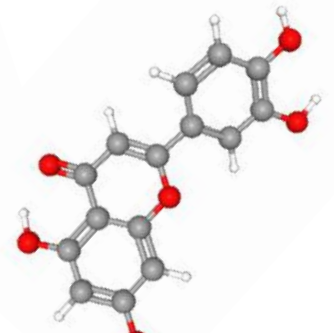
Hesperidin Therapy on COVID-19 Symptoms



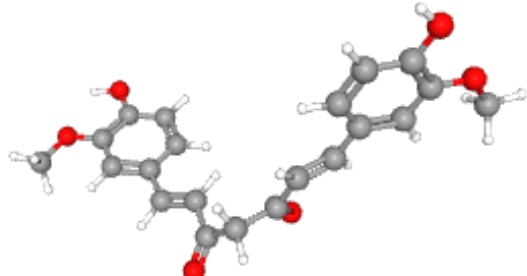
Quercetin



Luteolin



Curcumin



Glycyrrhizin

