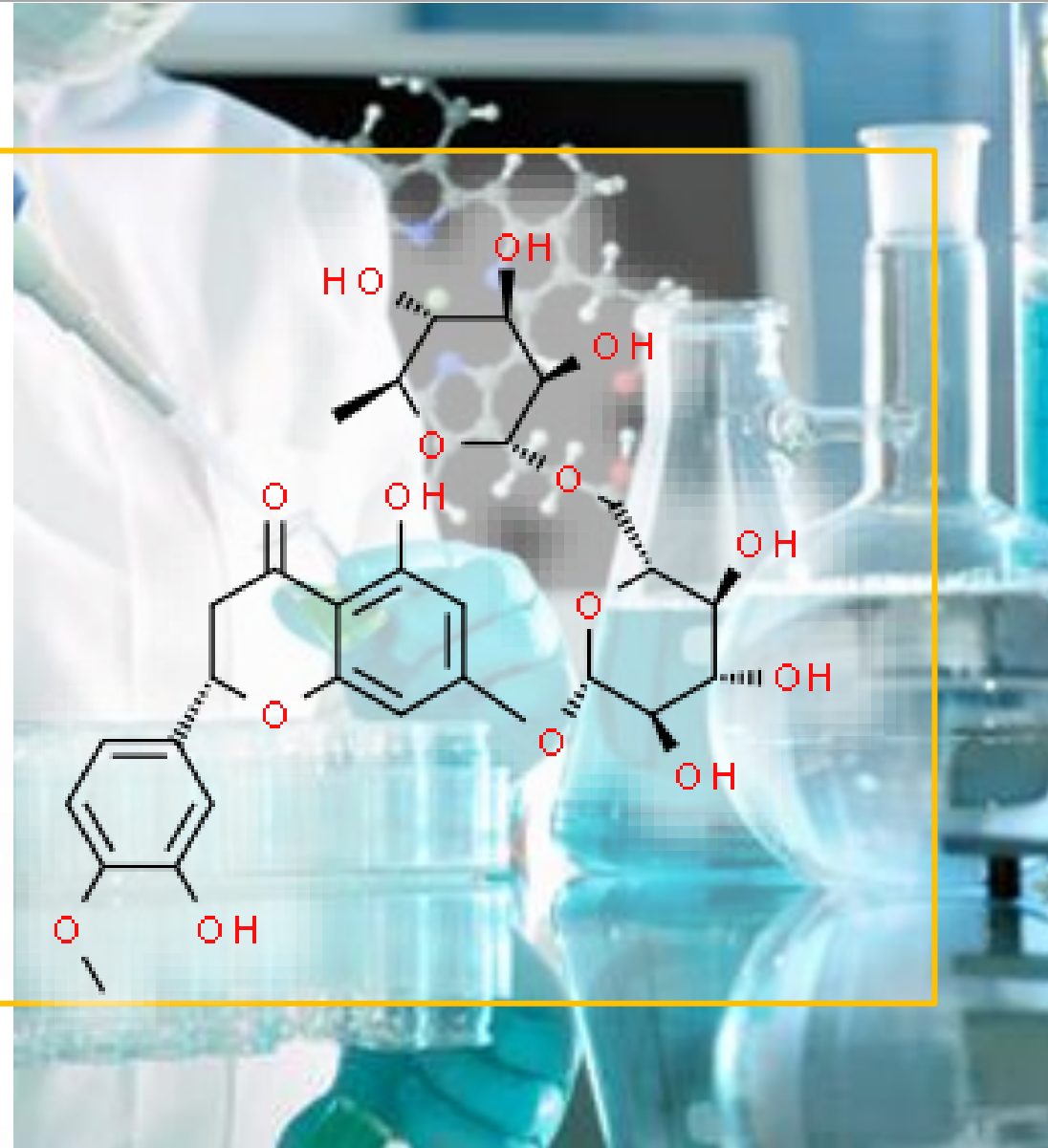


# Modern bioengineering - the answer to today's challenges



# 2020: THE OUTBREAK OF THE GLOBAL PANDEMIC



World Health  
Organization

Search by Country, Territory, or Area



Covid-19 Response Fund

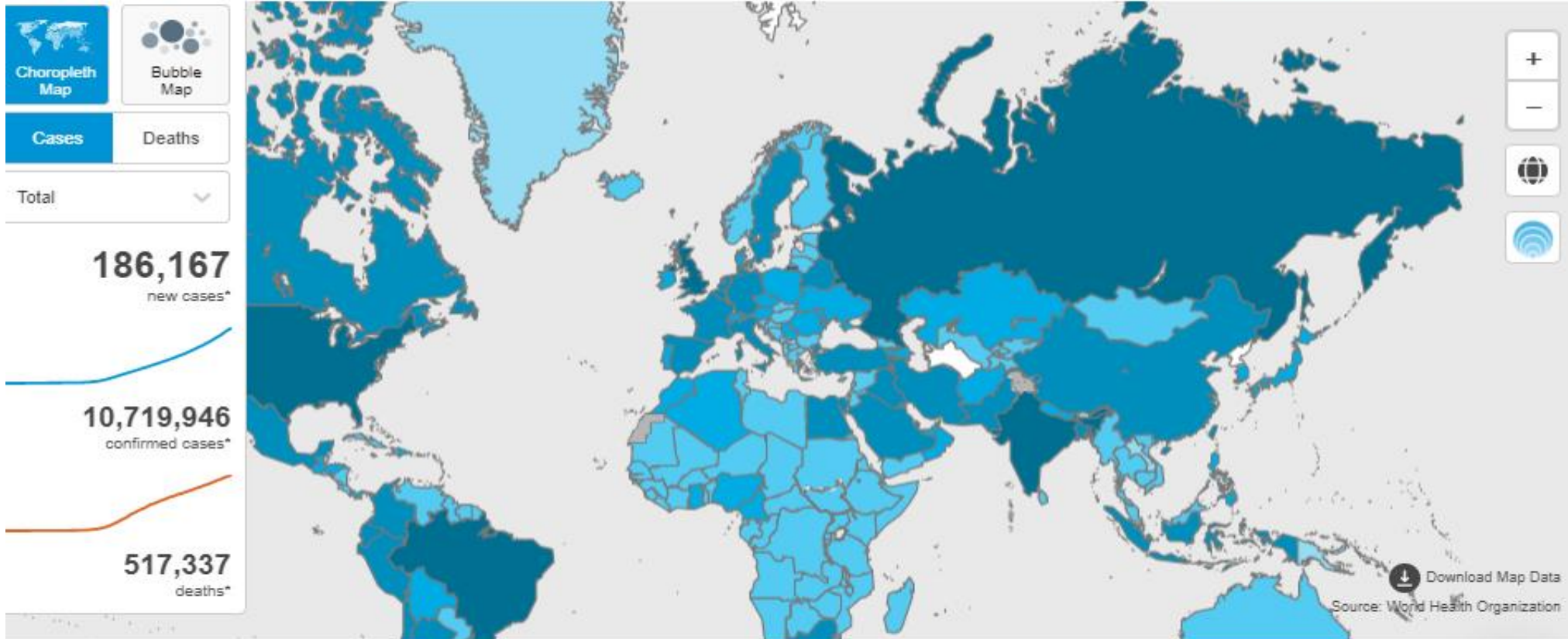
Donate

## WHO Coronavirus Disease (COVID-19) Dashboard

Data last updated: 2020/7/3, 10:52am CEST

Overview

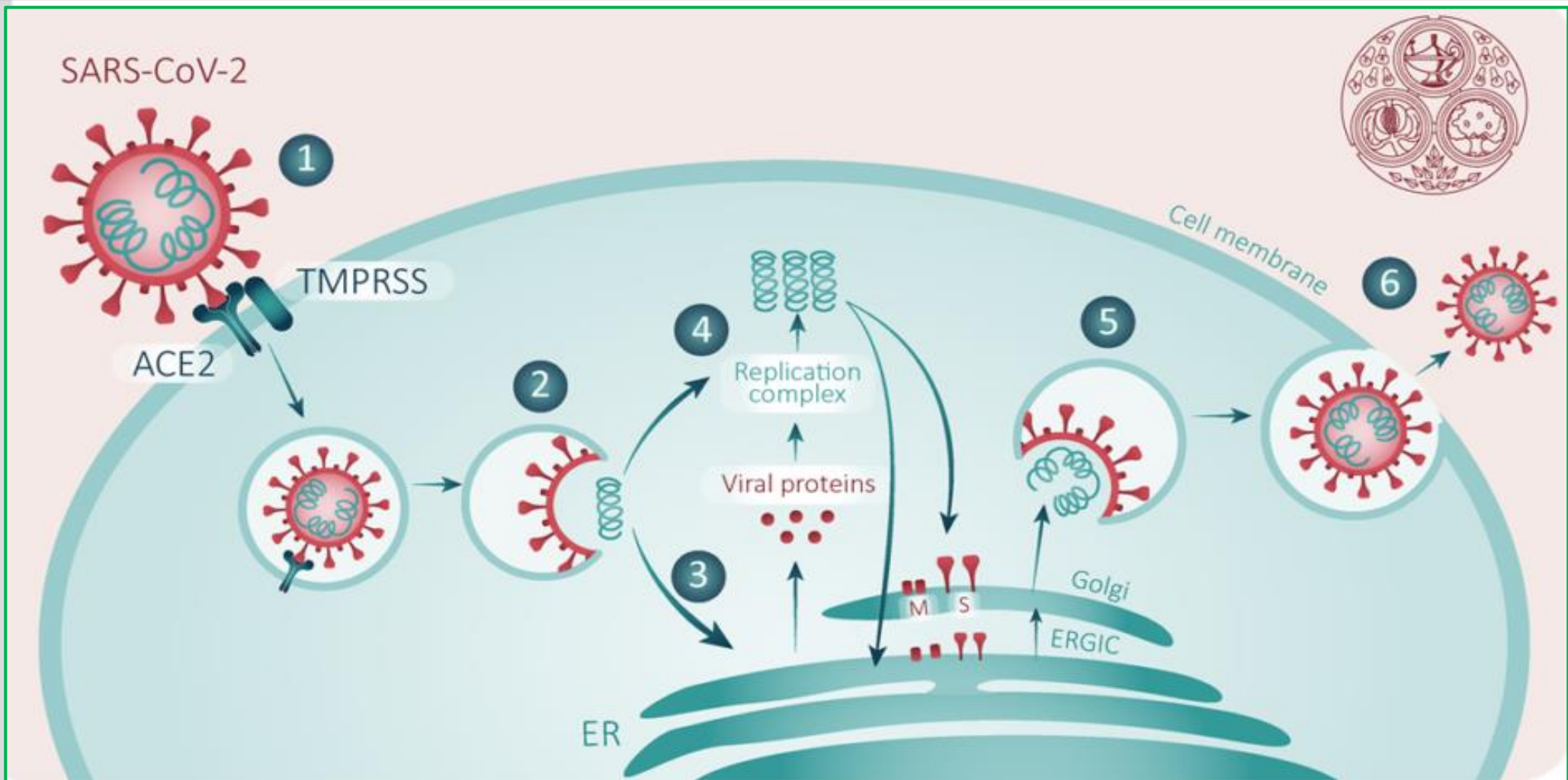
Explorer



Globally, as of 10:52am CEST, 3 July 2020, there have been 10,719,946 confirmed cases of COVID-19 including 517,337 deaths, reported to WHO.



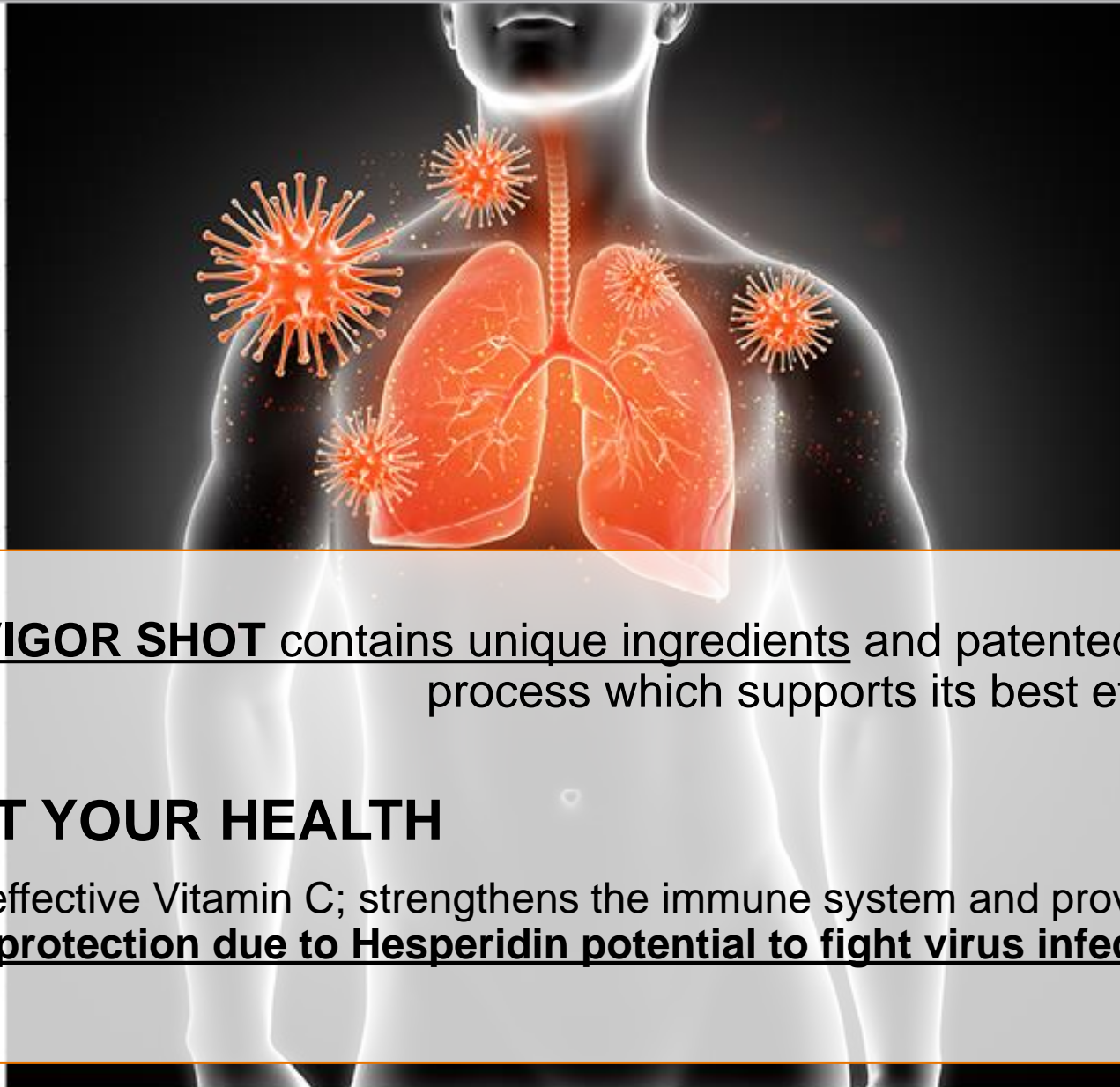
# SARS-CoV-2 cell replication mechanism



Replication steps: 1. fusion; 2. RNA release; 3. translation; 4. replication complex; 5. packaging; 6. SARS-CoV-2 virus release.

COVID-19/SARS-CoV-2  
Pandemic  
Dr Penny Ward et al.

# How to suppress the viruses effectively?



**TIENS VIGOR SHOT** contains unique ingredients and patented technology process which supports its best effectiveness.

## **PROTECT YOUR HEALTH**

Proven and effective Vitamin C; strengthens the immune system and provides **antioxidant protection due to Hesperidin potential to fight virus infections.**

# Strengthen your immunity



The immune system has a vital role: It protects your body from harmful substances, germs and cell changes that could make you ill.

It is made up of various organs, cells and proteins.

As long as your immune system is running smoothly, you don't notice that it's there.

But if it stops working properly – because it's weak or can't fight particularly aggressive viruses or germs – you get ill.



# TIENS solution for effective support of your immunity!



# Unique technology & ingredients in one shot!



- **TIENS VIGOR SHOT** boosts your immunity and powers stamina on the go... while at work, at school or during daily routines.
- Delicious, all-natural juice, sweetened with trehalose tapioca sugar, flavoured with citrus fruit and coloured with white grapefruit.

# TIENS Vigor Shot sachet boosts your immunity

- **CitriSlim®**

concentrated fruit blend  
– Young Ponkan

- **Hesperidin**

major flavonoid in citrus  
peel

- **Lipo Vit C®**

500 mg of liposomal-  
encapsulated vitamin C

- **Double Nutri™**

oil micro-emulsification technology



**Vitamin C** is highly concentrated in immune cells; however an antioxidant, **quickly gets depleted during infections.**

**It is not stored in the body and must be supplemented in the daily diet.**

Citruses are an excellent source of vitamin C.



# TIENS VIGOR SHOT - boosts your immunity



=



**Hesperidin**  
content of  
3x ponkan fruit

10

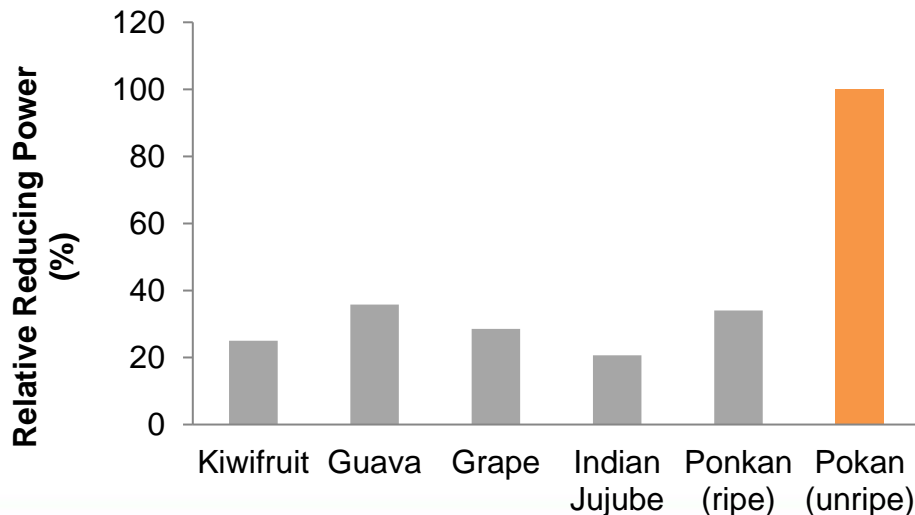


**Vitamin C**  
content of  
10x lemon

\*About 50mg vitamin C per 100g lemon. The amount of vitamin C in this product is 500mg, which is equivalent to about 10 lemons (estimated by the average weight of a single lemon of about 90-120g)

# What is the secret of Young Ponkan?

1. Unripe Ponkan **contains 170 times (!) higher content of flavonoid NOBILETIN & HESPERIDIN,** compared to mature fruit.
2. Young Ponkan has ~ **3 times higher antioxidant power** than mature fruit, and it is 2~4 times greater than other fruits.



## YOUNG PONKAN

- Native to S. China and Taiwan, Ponkan orange is a hybrid of mandarin and pomelo.
- Low-sugar, ponkan has one of the highest nutrient organic content among all citrus.

# What is Hesperidin? A powerful citrus bioflavonoid!

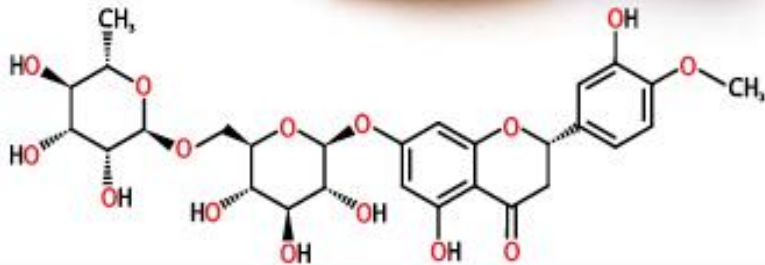


In western medicine, citrus peel has been used as a cough medicine and antiviral and anti-inflammatory tonic.

These properties are assigned to particular bioflavonoids like **nobiletin**, **diosmin** and **especially hesperidin**.

Hesperidin, a major flavonoid in citrus peel, supports immune response by suppressing proinflammatory cytokines.

Recent studies suggest that hesperidin, binding the main receptors of SARS-CoV-2 virus, can act in COVID-19 prophylaxis. 

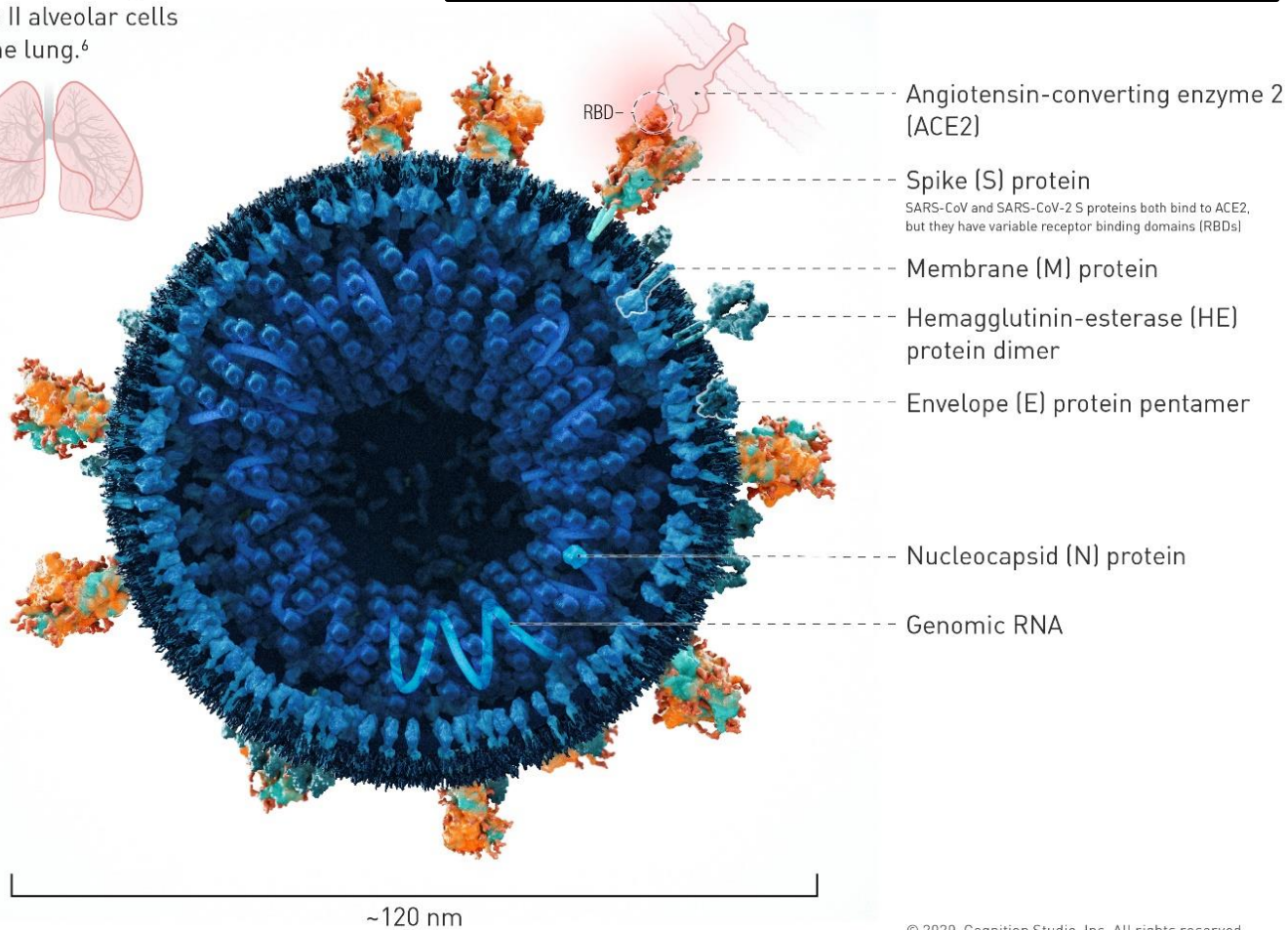




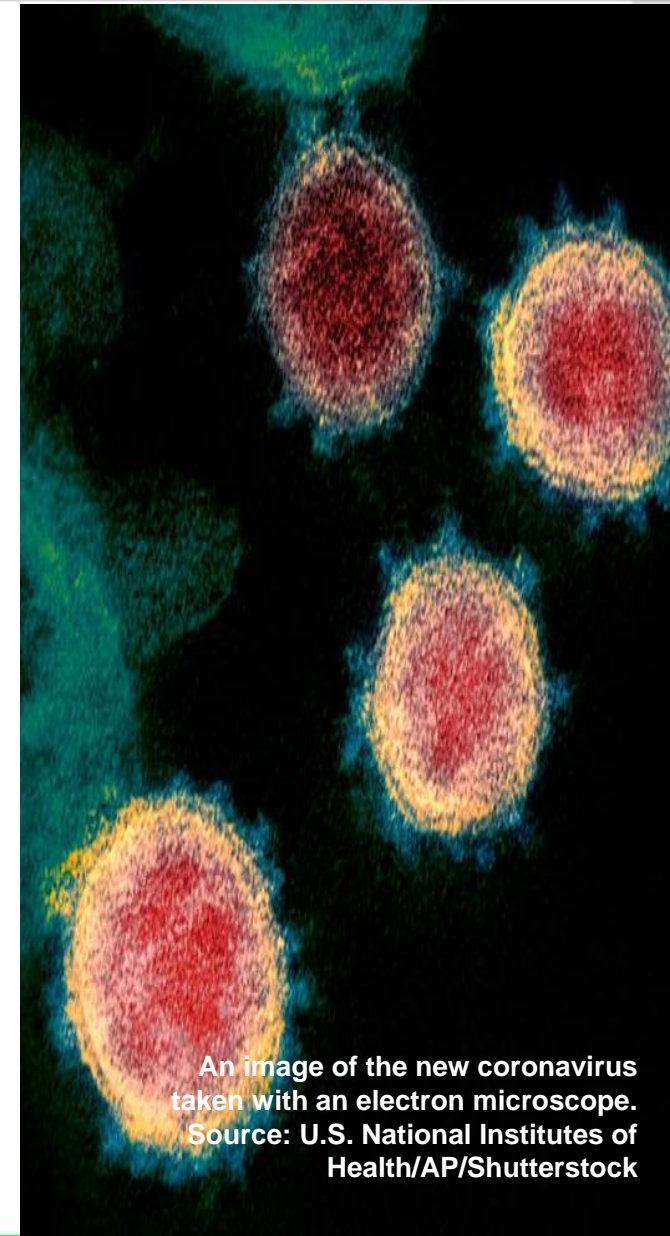
# Hesperidin study

**Block the connection between  
ACE2 and Spike protein**

SARS-CoV-2 targets  
type II alveolar cells  
in the lung.<sup>6</sup>



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An image of the new coronavirus  
taken with an electron microscope.  
Source: U.S. National Institutes of  
Health/AP/Shutterstock

# Lipo Vit C® - liposomal-encapsulated vitamin C

**Vitamin C is a powerful antioxidant that aids immunity and helps prevent cellular damage caused by toxins.**

## **Lipo Vit C® - liposomal technology**

- helps transport vitamin C across your intestinal membrane for higher bioavailability.
- By utilizing Lipo Vit C® - technology, vitamin C is enclosed in phospholipids that form protective liposomes.

**Liposomes help to reduce the potential for gastrointestinal distress typically associated with traditional vitamin C.**





# Double Nutri™ technology

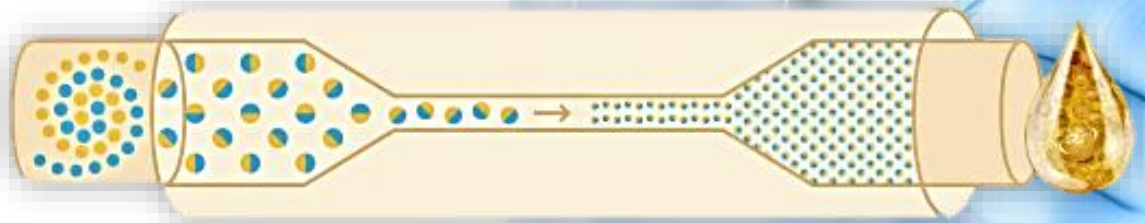
## HIGHER BIO-AVAILABILITY

**Double Nutri™ - patented, oil micro-emulsification technology** - allows the encapsulation of the actives with phospholipid liposomes.

- this technology allows to turn all the active ingredients into liposomal, micronized and highly bioavailable form (particle size 1~3µm).
- this micronized active compounds can be quickly absorbed into the bloodstream and transported to the cells, without the need for physical digestion.
- this revolutionary technology perfectly combines biphasic nutrients and turns them into a high-absorption, powerful fruit drink.

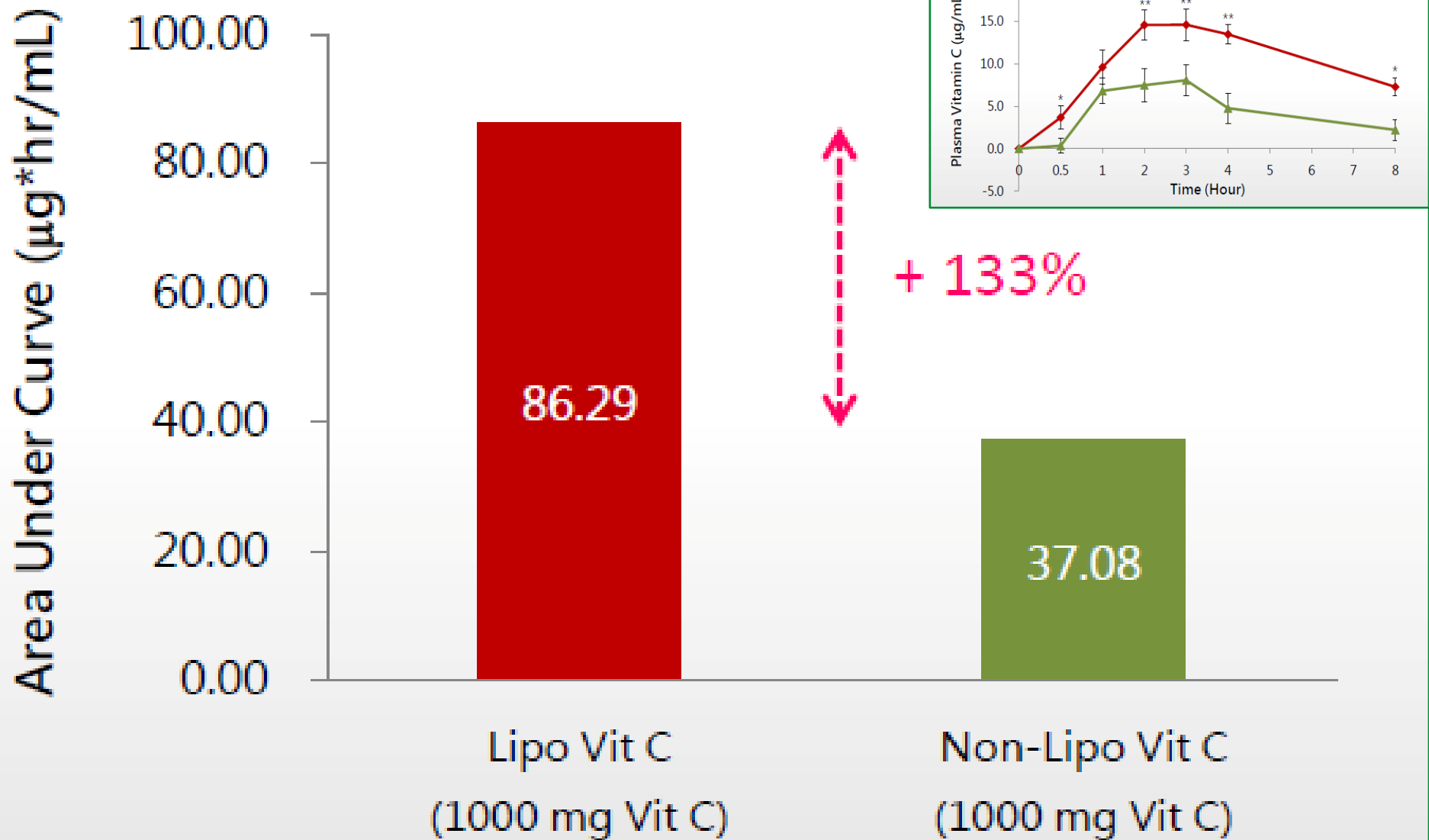
EMULSIFICATION

ENCAPSULATION





# Bioavailability comparison of Lipo Vit C®



# CitriSlim® is a highly concentrated fruit blend

## **CitriSlim®** **concentrated fruit blend of:**

- unripe ponkan orange
- red & white grapefruit
- pomelo
- lemon & apple.



# Reap the maximum benefits of TIENS Vigor Shot



normal functioning of the nervous system



contributing to reducing fatigue and exhaustion



increasing the absorption of iron



contributing normal collagen formation



protecting cells from free radical damage



promoting metabolism



supporting muscle recovery and reducing soreness after exercise





# TIENS Vigor Shot summary and specifications

國立臺灣大學醫學院附設醫院研究倫理委員會  
Research Ethics Committee A  
National Taiwan University Hospital  
7, Chung-Shan South Road, Taipei, Taiwan 100, R.O.C.  
Phone: 2312-3456 Fax: 23951950  
臨床試驗/研究許可書

許可日期: 2019年6月10日

倫委會案號: 201903113RSA  
計畫名稱: 微脂粒維生素C對於人體吸收與代謝之影響。  
試驗機構: 國立臺灣大學醫學院附設醫院  
部門/計畫主持人: 家庭醫學部 蔡進勳醫師  
上述計畫業於2019年5月17日本院A研究倫理委員會第117次會議審查同意, 符合研究倫理規範, 本委員會之運作符合優良臨床試驗準則及政府相關法律規章。  
本臨床試驗/研究許可書之有效期限為1年(自2019年6月10日至2020年6月9日止), 計畫主持人須依國內相關法令及本院規定通報嚴重不良反應事件及非預期問題, 並應於到期日至少6週前提出持續審查申請表, 本會需經持續審查, 方可繼續執行。

主任委員  
**蔡甫昌**  
Clinical Trial/Research Approval  
Date of approval: Jun 10, 2019  
NTUH-REC No.: 201903113RSA  
Title of protocol: Effects of liposomal encapsulation on vitamin C absorption and metabolism.  
Trial/Research Institution: National Taiwan University Hospital  
Department/ Principal Investigator: Department of Family Medicine / Dr. Jau-Shuan Tsai  
The protocol has been approved by the 117<sup>th</sup> meeting of Research Ethics Committee A of the National Taiwan University Hospital on May 17, 2019. The committee is organized under, and operates in accordance with, the Good Clinical Practice guidelines and governmental laws and regulations.  
The duration of this approval is one year (from Jun 10, 2019 to Jun 9, 2020). The investigator is required to report Serious Adverse Events and Unanticipated Problems in accordance with the governmental laws and regulations and NTUH requirements and apply for a continuing review not less than six weeks prior to the approval expiration date.

Daniel Fu-Chang Tsai, M.D.  
Chairman  
Research Ethics Committee A  
*Daniel Fu-Chang Tsai*

## Clinical Trial Research Approval



**Recommended daily allowance:**  
1 shot per day. Drink directly after opening or mix with water, according to personal preferences.

**Net content:** 375 ml (15 shots x 25 ml).

	In 25 ml shot (daily portion)	*NRV
• CitriSlim® Ponkan unripe fruit juice	2.5 g	-
• Ponkan fruit extract	625 mg	-
Lipo Vit C® - liposomal vitamin C	500 mg	625%