

Immune cell function, Hypoxia, and COVID-19

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13 May 2020

1PM GMT+1, 14h GMT+2



Coronavirus Cases:

4,311,914

[view by country](#)

Deaths:

290,597

Recovered:

1,567,141

ACTIVE CASES

2,454,176

Currently Infected Patients

[WORLD](#) / [COUNTRIES](#) /

UNITED KINGDOM

Last updated: May 12, 2020, 18:15
GMT



**United
Kingdom**

Coronavirus Cases:

226,463

Deaths:

32,692

COVID-19 affects different people in different ways. Most infected people will develop mild to moderate illness and recover without hospitalization.

Most common symptoms:

- fever
- dry cough
- tiredness

Less common symptoms:

- aches and pains
- sore throat
- diarrhoea
- conjunctivitis
- headache
- loss of taste or smell

- a rash on skin, or discolouration of fingers or toes

Serious symptoms:

- difficulty breathing or shortness of breath
- chest pain or pressure
- loss of speech or movement

Seek immediate medical attention if you have serious symptoms. Always call before visiting your doctor or health facility.

People with mild symptoms who are otherwise healthy should manage their symptoms at home.

On average it takes 5–6 days from when someone is infected with the virus for symptoms to show, however it can take up to 14 days.

Thevarajan, I., Nguyen, T.H.O., Koutsakos, M. *et al.*
(The Peter Doherty Institute for Infection and Immunity
Melbourne Australia)

- Breadth of concomitant immune responses prior to
patient recovery: a case report of non-severe COVID-19

2020

„...We have provided evidence on the recruitment of immune cell populations (ASCs, T_{FH} cells and activated CD4₊ and CD8₊ T cells), together with IgM and IgG SARS-CoV-2-binding antibodies, in the patient's blood before the resolution of symptoms...”

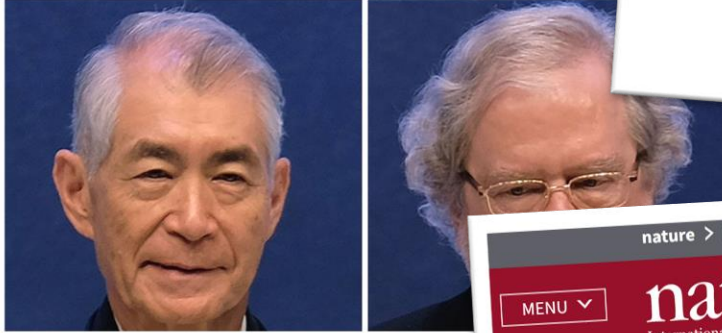
Source: <https://www.nature.com/articles/s41591-020-0819-2>

2020


The 2018 Nobel prizes

The Nobel prize for medicine is awarded for a new type of cancer treatment

Checkpoint inhibitors have changed oncology



2018

Medical  press

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🕒 OCTOBER 1, 2018

👤 5.9K

🐦 79

US, Japan duo win Nobel Medicine Prize for cancer therapy

nature > news > article

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NEWS · 01 OCTOBER 2018

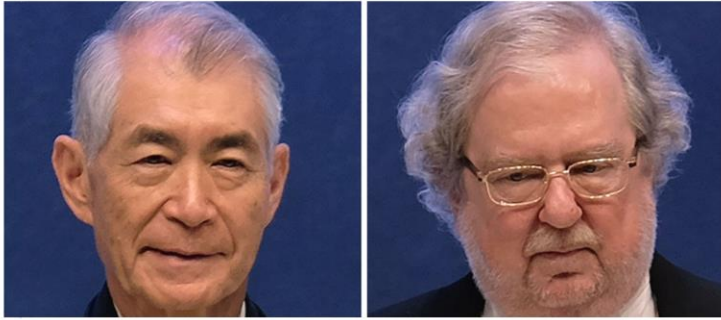
Cancer immunologists scoop medicine Nobel prize

James Allison and Tasuku Honjo pioneered treatments that unleash the body's own immune system to attack cancer cells.

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KAQUN
WATER AND MORE

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„...Unlike more traditional forms of cancer treatment that directly target cancer cells—often with severe side-effects—Allison and Honjo figured out how to help the patient's own immune system tackle the cancer more quickly...”

In 1995, Allison was one of two scientists to identify the CTLA-4 molecule as an inhibitory receptor on T-cells, a type of white blood cell that play a central role in the body's natural immunity to disease.

2009

2009 - National Institute of Chemical
Safety – Citogenetic and Immunologic
Division:

The effect of KAQUN-water on the
immune parameters of healthy
volunteers
(TUKÉB No.: 42/2009)



2009 - The effect of KAQUN-water on the
immune parameters of healthy volunteers
/NICS/



NATIONAL INSTITUTE OF CHEMICAL SAFETY

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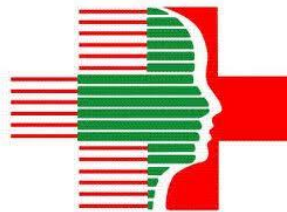
2009 - National Institute of Chemical Safety – Citogenetic and Immunologic Division:

The effect of K AQUN-water on the immune parameters of healthy volunteers

(TUKEB No.: 42/2009)

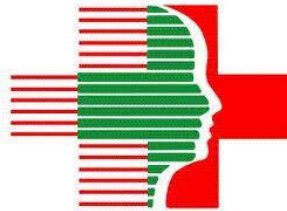
- / Activation of T- lymphocytes
- / **The percentage of the NK cells showed statistically significant increase**
- / The percentage of ROI producing cells increased significantly
- / Apoptosis process has been started (Fenton reaction)
- / Expression of the CD25 cell surface antigen
- / **Antioxidant capacity increased significantly** in the 72% of the samples

K AQUN
WATER AND **MORE**



**2009 - National Institute
of Chemical Safety –
Citogenetic and
Immunologic Division:
The effect of K AQUN-
water on the immune
parameters of healthy
volunteers
(TUKEB No.: 42/2009)**

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Summary

1. No biologically significant changes were observed in the qualitative and quantitative blood count either at group level or individual level during the 21 days of Kaqun treatment.
2. The percentage of NK-cells showed a statistically significant increase, and the individual changes (increase) relative to the 0 point were bigger, which may have a functional impact, namely that more NK cells are available to kill virus infected and cancerous cells.
3. A non-specific activation of T lymphocytes (indicated by the increase in the expression of the CD25 cell surface antigen) could be detected, presumably caused by the Kaqun treatment, indicating the increased activity of the cellular immune response.
4. Characteristically the value of several parameters changed significantly by the second week of treatment and during the third week the value of the parameter remained at the same level, or the change levelled to its original value (percent of neurophils, monocytes, activated (CD25+) T cells, activated (CD25+) helper T cells and CD71+ B cells). This suggests that two weeks treatment is the most effective for the change in immune parameters and after that the reaction of the body to the treatment decreases, that is, the effect cannot be boosted.
5. The increase of the production of reactive oxygen intermediates both at group level and at the level of the individuals results in the intensification of the killing potential of neurophil granulocytes.

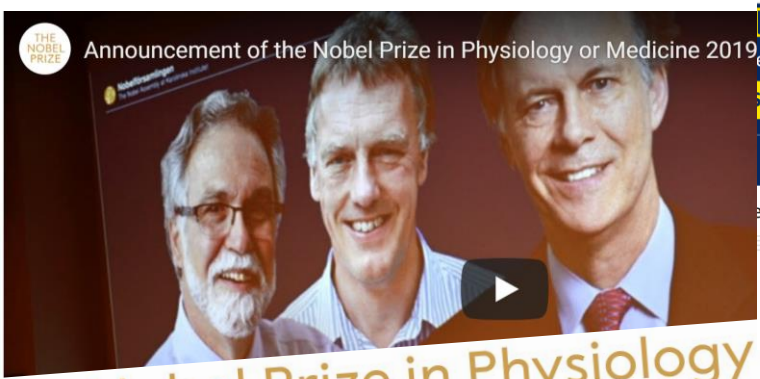
28th of September 2009

**2009 - National Institute
of Chemical Safety –
Citogenetic and
Immunologic Division:
The effect of KAQUN-
water on the immune
parameters of healthy
volunteers
(TUKEB No.: 42/2009)**



Determined parameters:

- Ly, Mo, Neu, Eos: percentage of lymphocytes, monocytes, neutrophil- and eosinophil granulocytes
- Total T, T helper, T cytotoxic, Immature T, B cell, NK-cell: percentage of T lymphocytes, cytotoxic and helper T lymphocytes, immature T lymphocytes, B lymphocytes and NK-cells within lymphocytes
- Th/Tc: The ratio of helper and cytotoxic T lymphocytes
- Activated T: percentage of CD25 (IL-2 receptor) activation antigen carrying T cells within the T cells
 - Activated Th: percentage of CD25 activation antigen molecule carrying helper T cells within the helper T cells
 - Activated Tc: percentage of CD25 activation antigen expressing cytotoxic T lymphocytes within the cytotoxic T lymphocytes
- CD71 positive T: percentage of CD71 (transferrin receptor) molecule carrying T cells within the T cells
- CD71 positive B: percentage of CD71 (transferrin receptor) molecule carrying B cells within the B cells



Announcement of the Nobel Prize in Physiology or Medicine 2019

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Nobel prize in medicine awarded to hypoxia researchers

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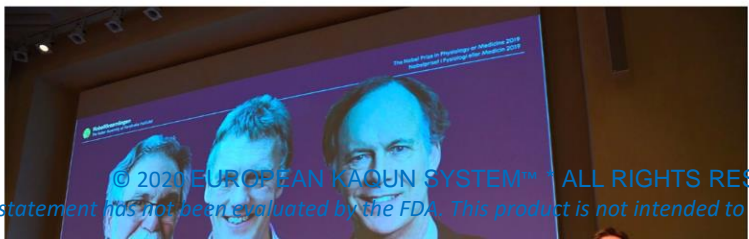
The Nobel Prize in Physiology or Medicine 2019



The New York Times

Nobel Prize in Medicine Awarded for Research on How Cells Manage Oxygen

The prize was awarded to William G. Kaelin Jr., Peter J. Ratcliffe and Gregg L. Semenza for discoveries about how cells sense and adapt to oxygen availability.



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Health

How our cells sense oxygen v orize

by James Gallagher
Health and science correspondent

7 October 2019

Nobel Prize



KAQUN



Nobel Prize in Medicine - 2019

William G. Kaelin, Gregg L. Semenza, Peter J. Ratcliffe

"for their discoveries of how cells sense and adapt to oxygen availability.,,"



The 2019 Nobel Prize in Physiology or Medicine is awarded jointly to [William G. Kaelin Jr](#), [Sir Peter J. Ratcliffe](#) and [Gregg L. Semenza](#) “for their discoveries of how cells sense and adapt to oxygen availability.” They identified molecular machinery that regulates the activity of genes in response to varying levels of oxygen.

[\(https://www.nobelprize.org/prizes/medicine/\)](https://www.nobelprize.org/prizes/medicine/)

Results and their evaluation

Examination results are represented by the attached Tables 1 and 2, and Figures 1 and 2. Based on the results it can be clearly concluded that in the applied in vitro system, in KAQUN oxygen-rich water a reactive species concentration showing the maximum may be reached in 10 seconds, whereas in the control water this process is slow, showing significantly lower maximum. The produced reactive oxygen has short life. The increase measured in comparison to the control is resulted by the fact that the oxygen-rich water allows an increase in peroxide quantity according to the reaction outlined above. We also examined whether KAQUN water's effect increasing peroxide quantity changes or not in open bottle, or to the effect of rinsing with nitrogen, carbon dioxide or boiling. From the data in Table 2 the following decreases can be assessed: 6.4% in a bottle open for 5 days, 4.7% for rinsing with nitrogen, 6.6% for rinsing with carbon dioxide, and 49.9% for boiling for 10 minutes. Boiling caused the greatest decrease of efficiency, which is naturally no surprise as the oxygen content of water increases at cooling, and decreases at heating. Whereas at a temperature of 0 °C maximum 14.5 mg oxygen can be solved in 1dm³ water, at 25 °C only 8.5 mg. KAQUN water contains 18-20 mg oxygen per dm³, which is 6 to 8 times higher than average oxygen content.

The reaction applied in in vitro system also happens the same way in the cell system as both peroxide generation from molecular oxygen and substrate oxidation take place in the cell wall while reactive oxygen is produced. Here NADH also participates in the reaction. In perfect systems there is a balance in these processes. The lack of reactive oxygen species means a problem similar to their permanent overproduction causing oxidative stress state. The extremely quick reactive oxygen increase measured in in vitro system allows the hypothesis that adding the appropriate quantity of oxygen-rich water in in vitro conditions might lead to a quick production of greater quantity of OH species in the Fenton (Haber-Weiss) reaction. It is known that several publications deal with the topic that the intracellular oxidative state, reactive oxygen species (ROS) might play an important role in apoptosis.

Programmed cell death is of high importance in the development of multi-cell living organisms and in the operation of the immune system. A great part of physiological cell death takes place by means of apoptosis, and it is a basic part of the differentiation of both animal and plant tissues. During experiments it became clear that in the development of high order organisms cell death leads to the formation of different organs, organ systems

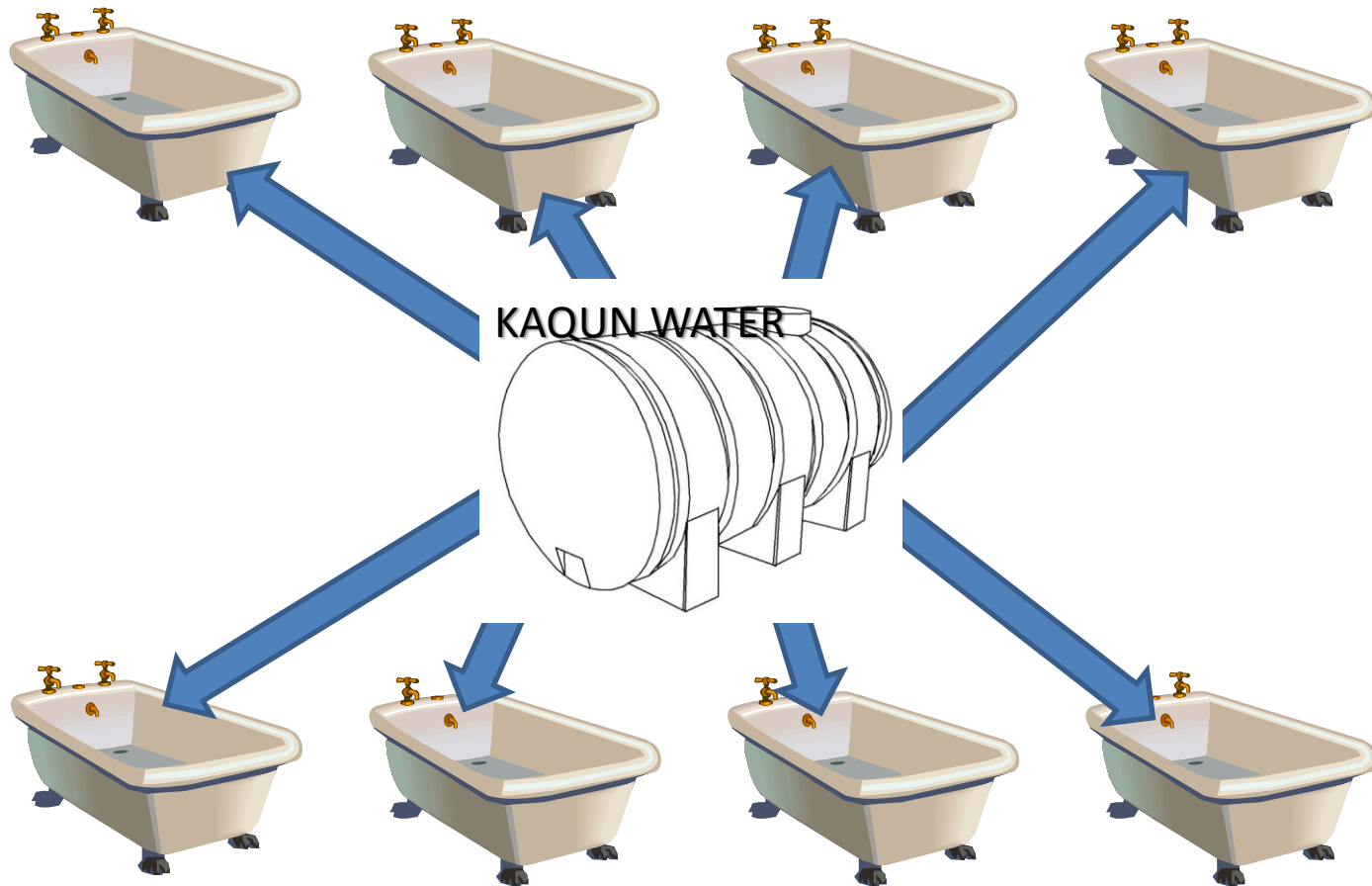
KAQUN
WATER AND MORE



**2010 - Report on the examination of KAQUN
oxygen-rich water's role in reactive oxygen
species generation in in vitro system /HAS/**

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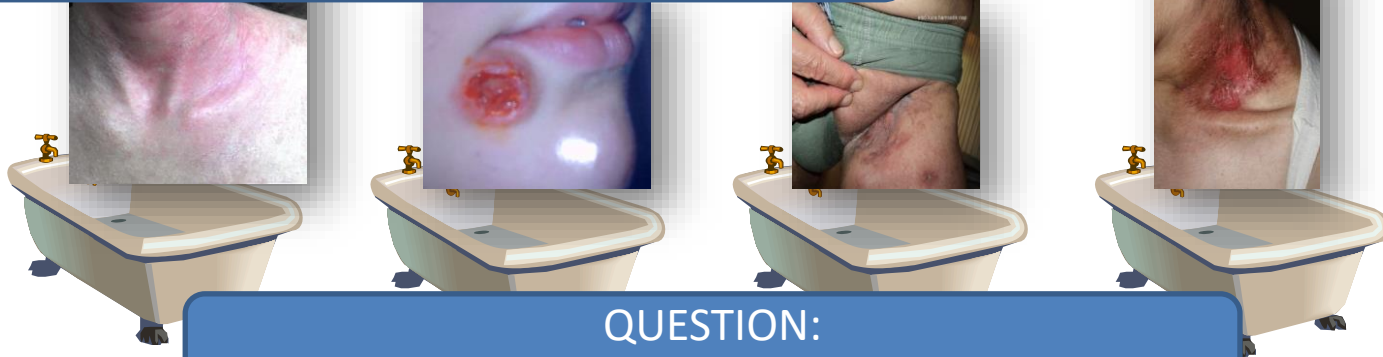


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QUESTION:
CAN THE SAME THERAPY BE USED FOR DIFFERENT
KIND OF ILLNESSES/DISEASES/SICKNESSES?

Before the therapy



QUESTION:
WHAT IS THE COMMON FACTOR IN THESE CASES?



ANSWER:
HYPOXIA
CELLULAR IMMUNE SUPPRESSION

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After the therapy



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Part II.

Immune cell function, Hypoxia, and COVID-19

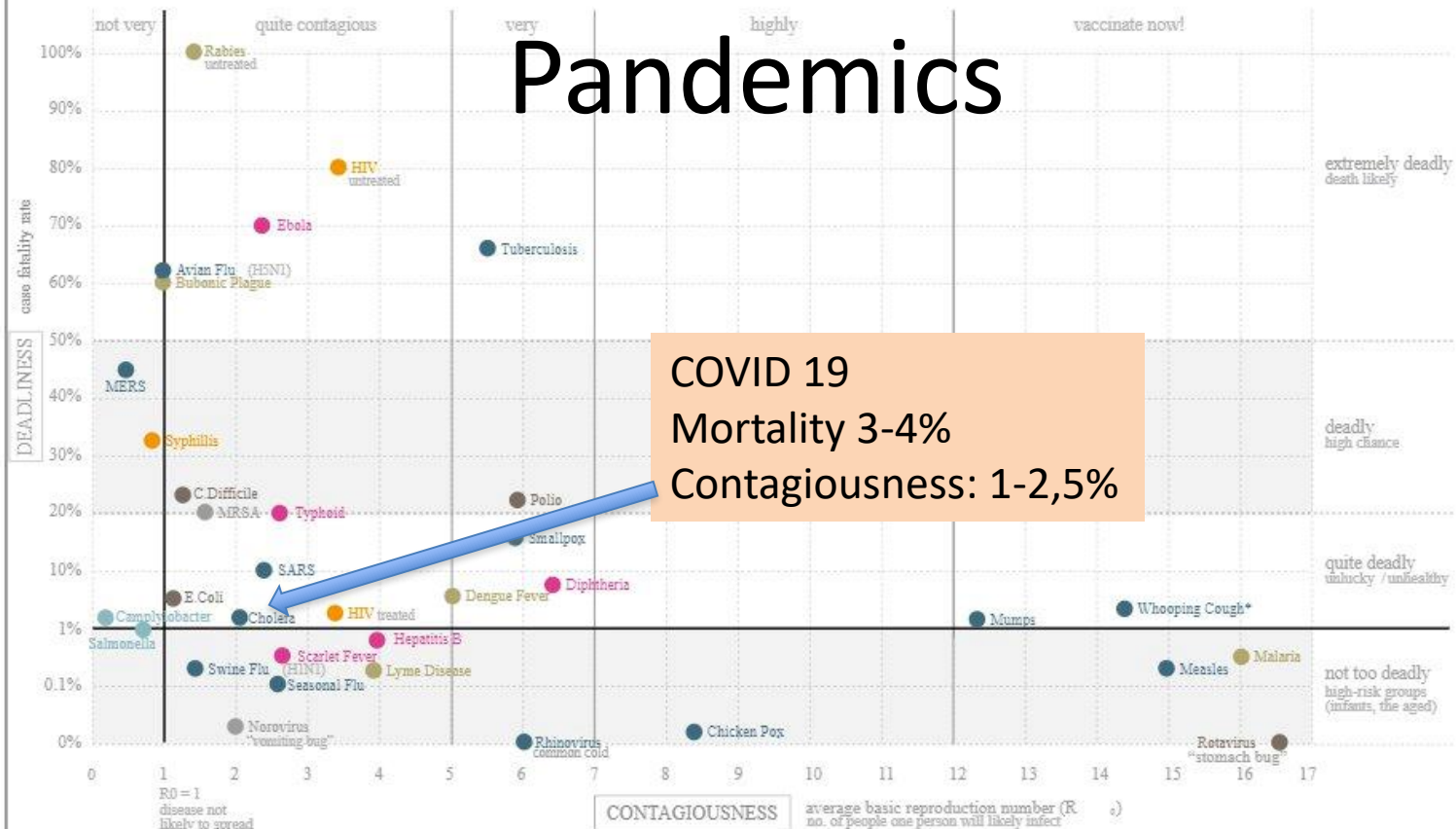
13 May 2020
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Adam Boday

Natural immunity

- Humans in natural environment
 - Tonsils,
 - Peyer's patches
 - Appendix
- Surrounded by triggers of the ecosystem
- Why we need vaccination?
- Organs

Pandemics



COVID 19
Mortality 3-4%
Contagiousness: 1-2,5%

Why have it frigtened us?

How are we seeded?

- Vaginal delivery
- Breastfeeding
- Family and other animals
- Playing in the dirt, connection with Nature
- Regular microbe intake:
 - Water,
 - food,
 - Air
- Other people – physical contact

The WorldPost • Opinion

The silent microbiome crisis

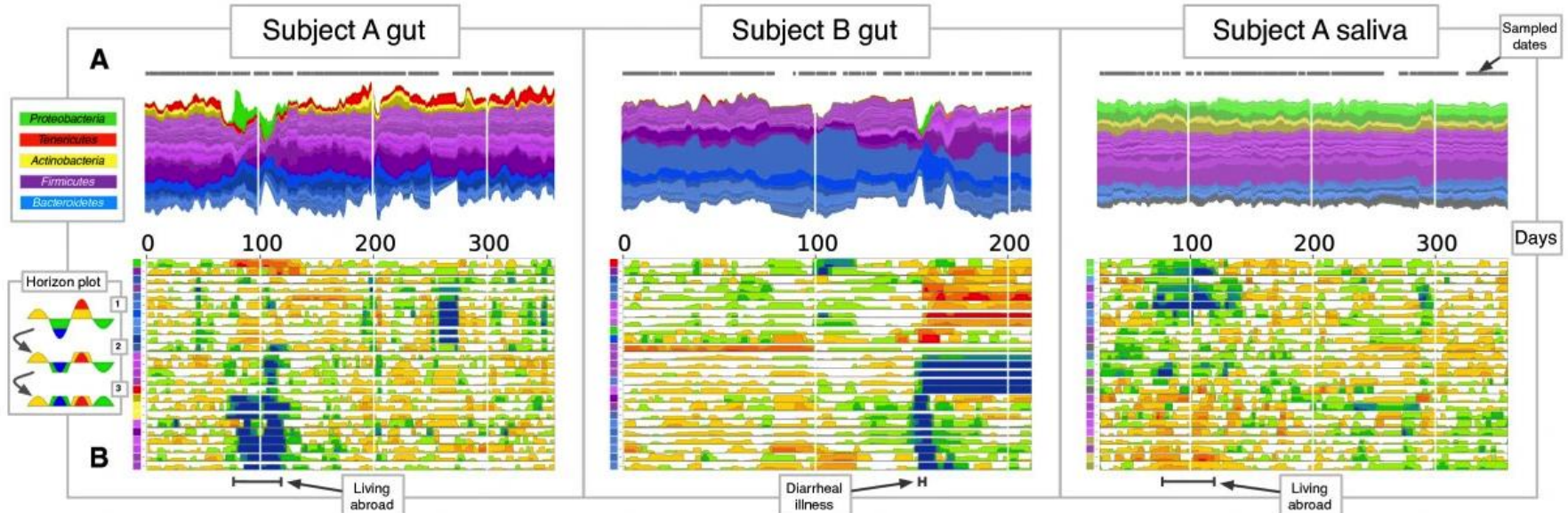


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How our lifestyle and diet affect the microbiota?

From: [Host lifestyle affects human microbiota on daily timescales](#)



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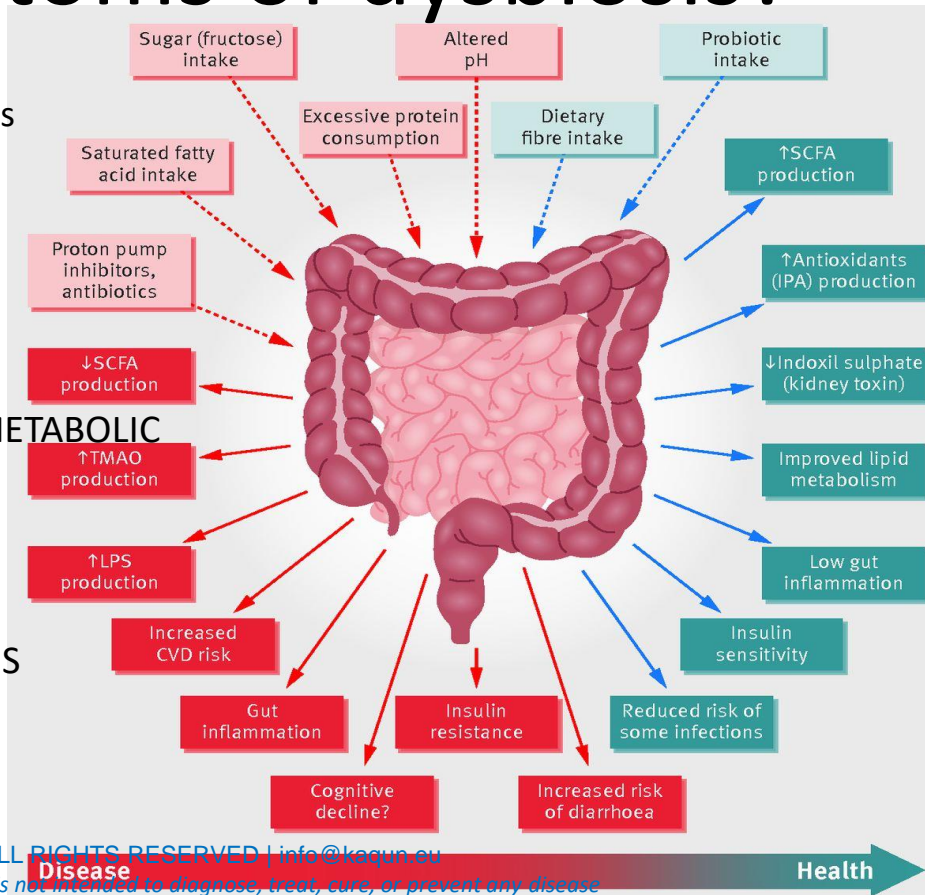
Genome Biology

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What are the symptoms of dysbiosis?

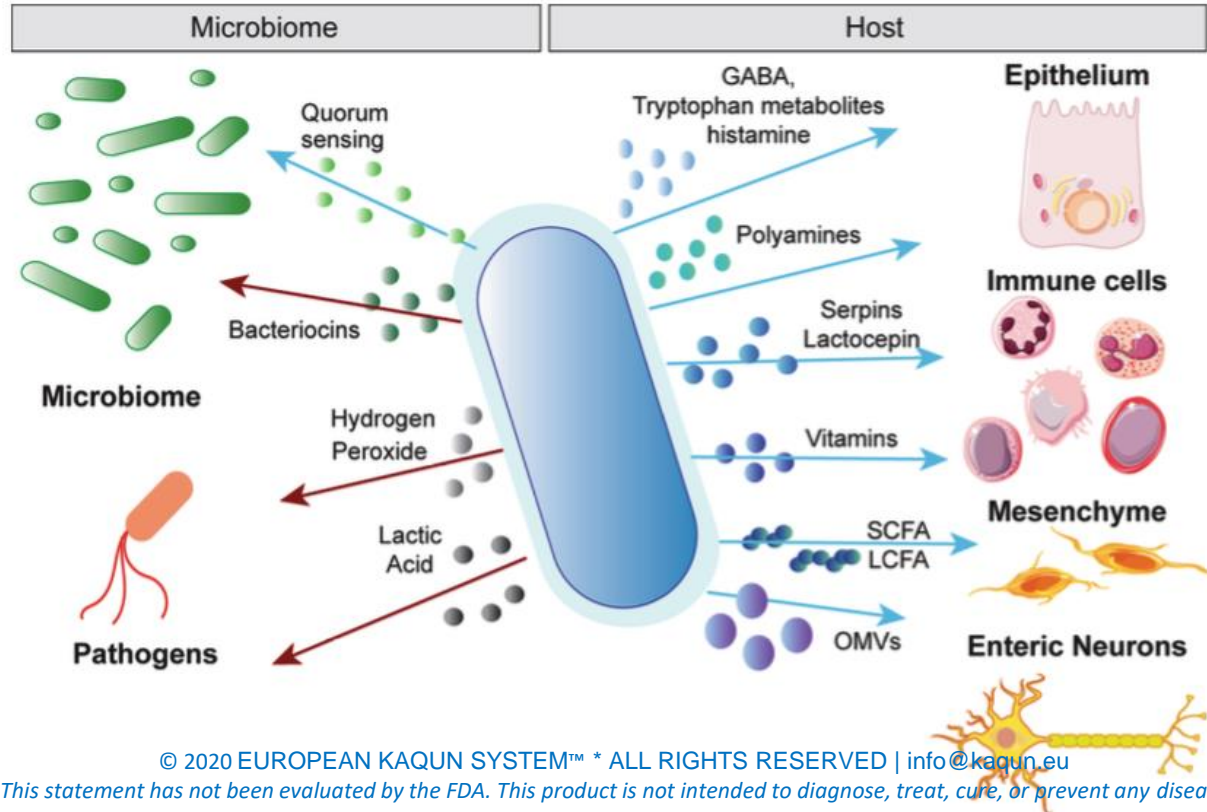
- FUNCTIONAL STARVATION- lack of certain nutrients
- MALDIGESTION, MALABSORPTION
- G.I.T. MALFUNCTIONS (SIBO, IBD, IBS)
 - Bloating(s)
 - constipation
 - diarrhea
- SYSTEMIC INFLAMMATION (Inflammaging)
- SECONDARY NUTRIENT DEFICIENCY (gut origin) / METABOLIC TOXINS
- OBESITY, METABOLIC SYNDROME (IR, T2D)
- LACK OF ENERGY
- SLEEP DISORDERS (depression, anxiety)
- NEURODEGENERATION- Alzheimer, Parkinson, MS



The role of EUbiota

Digestive Diseases and Sciences (2020) 65:695–705

699



LINK TO NATURE: MICROBIAL FUNCTIONS

- INHABITANCE – the live on our outer surfaces – no place for pathogenes
- PROPAGATION (milk, saliva, perspiration, tears, gastric juices are feeding them)
- FEED AND MOTIVATE US— metabolites, vitamins, neurotransmitter, hormones and their precursors, (Interferonok, DAO, beta glucane, GABA, acetylcholine, ...)
- STARTING AND TUNING DIGESTION PROCESSES – them, or their products
- PROTECTION
 - Immunity
 - **Non specific— histamine** (basophils), **HDP, Defensin, Dermcidin**,
 - Specific – learning and vigilance— antibodies, T and B cells, conditioning macrophages, specific **HDP (humane defense proteins)**
 - Displacement (covering the surface)
 - Signaling and protective molecules (quorum sensing, natural antibiotics)

Therapies to restore dysbiosis

- Yellow soup
- Fecal Microbial Transplant (FMT)
- Probiotics
- Fermented foods
- **Fermented dietary supplement**

The natural ways of restoring the symbiosis

Where are the microbes are from in nature?

- Water (ecosystem)
- Food (organic)
- Air (oral and respiratory, skin)

Taxonomy profile for HF-2.rma6



KAQUN DROPS
DIETARY SUPPLEMENT

100% natural

HERBAL EXTRACT PRODUCED BY NATURAL FERMENTATION

USAGE:
For adults and children aged 12 and above, 1-2 drops 3 times a day.

REMARKS:
Keep it in a cool, dry place.

MADE IN INDIA

Kaqun water and Kaqun drops

- Kaqun water restores hypoxia
 - Gut epithelial cells (mitohacking) are able to oxidize SCFA,
 - The epithel is using up the oxygen, anaerob condition promotes EUBIOSIS
- Kaqun drops promotes

REBIOSIS

- Symptoms – fermented herbs
- key triggers
 - Functional digestion
 - Immunity –
- Restoration – microbial ecosystem

The steps of rebiosis

- Reduce stress, ease symptoms
- Feed the body for energy and raw material
- Promote immunity and
- Assist regeneration
- Rehabilitate the colorful microbial ecosystem:
the healthy microbiota

Further information

Questions? Please send an email to us:

conference@kaqun.eu

Where to buy? www.kaqun.eu/partner-locations

Spa therapy in Hungary: www.kaqun.eu/therapy

Main website: www.kaqun.eu

Thank you for your attention!