

R & D

Development of new phytopharmaceuticals

Cell protection, skin cancer and prevention

Analytics

Swissmedic GMP Certificated Analytical

Laboratory

Specialised in phytoanalytics



Modern Life Related Diseases



- 20% of children under 5 years old suffer from neurodermitis
- Every second person older than 40 years old has got cancer
- The rate of skin cancer in Switzerland is one of the highest in Europe
-

Skin cancer rate

Every third person comes down with cancer in his life.

Most of the carcinome types are skin cancers

Free radicals



Human body is
exposed to numerous
exogenous sources of
radicals

What is OM24[®] ?

OM24® is ...



- ... 100% natural
- ... standardized, GMP produced, pharmaceutical quality
- ... evidence based active ingredient
- ... proved by cell biological and clinical studies
- ... dermatological and oral applications possible

OM24[®] is unique



more pure, more soluble,
no condensed polyphenols

OM24[®] is up to 1200 times more active
compared to other extracts in
comparable *in vivo* human studies

more stable

SWISS MADE

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SWISS  MADE

OM24[®] is evidence based



The cell biological and clinical evidence of OM24[®] as an active ingredient



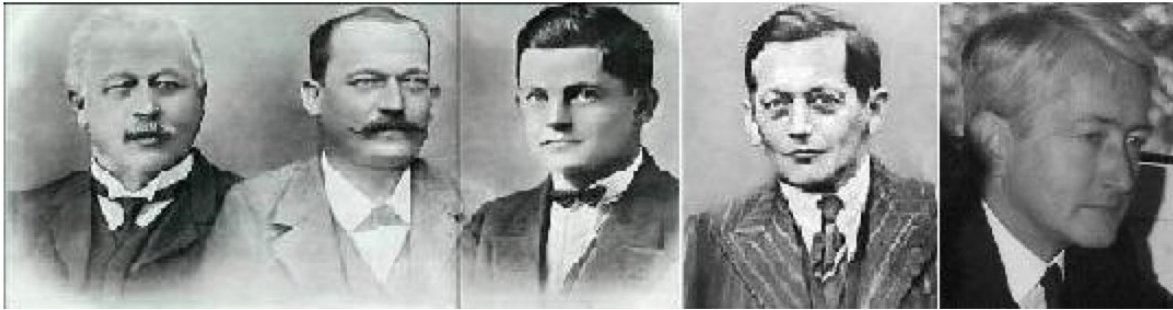
OM24[®] and 4protection System[®]

Cellbiological and Clinical Data



Familienhintergrund prägt

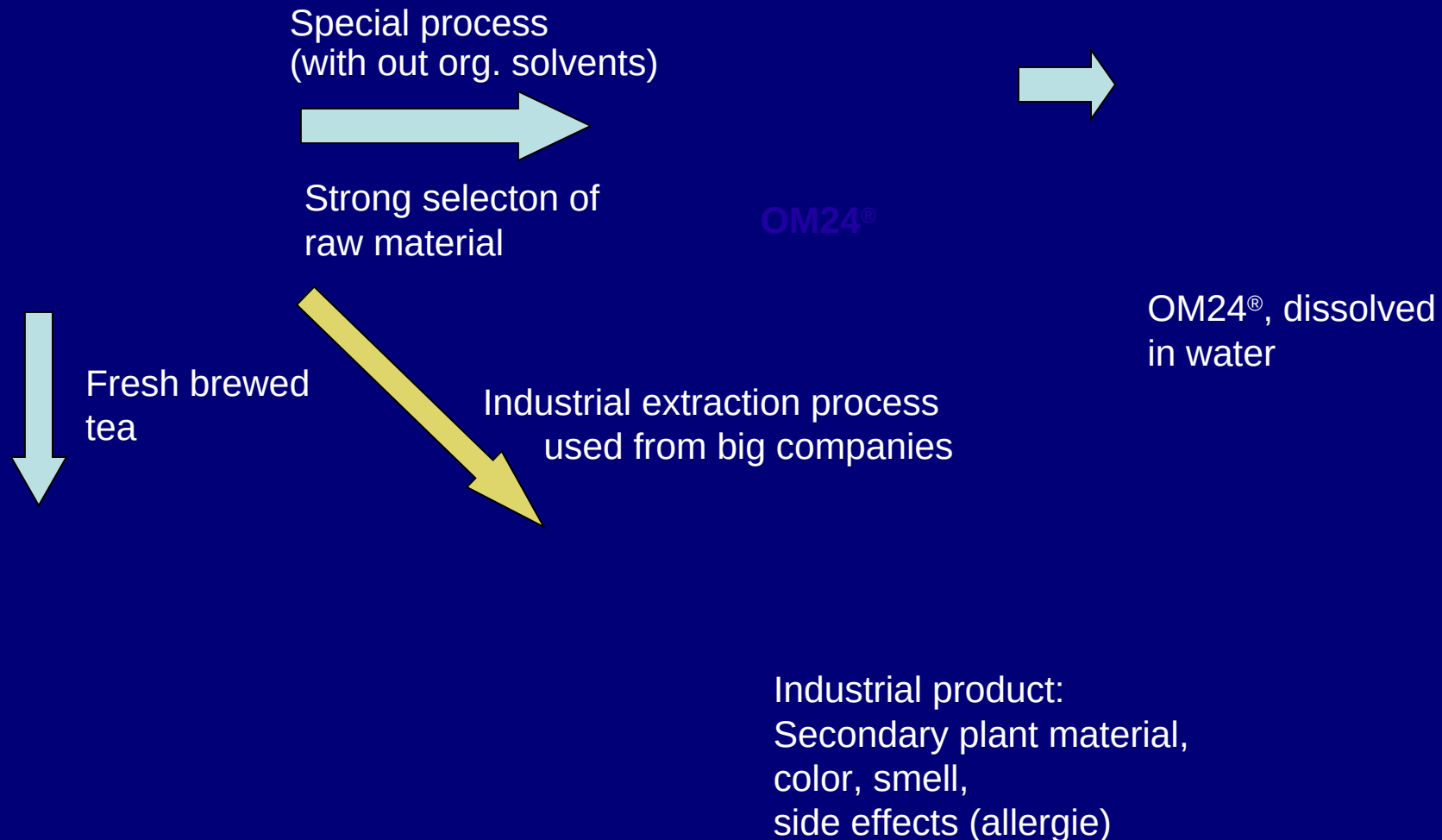
1350



University Tokyo 1994

Study about healing skin cancer in mice

OM24® unique composition



Company Structure

OM24 "IP Box"
„Hogapharm AG“

OMH Holding AG

**Ge-
schäfts-
einheiten**

Consumer Goods

"Omnimedica AG"

Dental

"Indentis AG"

Pharmaceuticals

"Novelpharm AG"

Medical Devices

"Suisstech AG"

Consumer
Beauty
Sport

Dentist
Pharmacies
Consumer

Medical Doctors
Hospitals
Pharmacies

Healthcare Market



Cell biological data by Dr. M. Suter,
Omnimedica AG

Healthy cell culture
and
intact DNA

Cell culture
and
DNA after
radical impact

OM24[®] protected
cell culture
and
DNA after radical
impact



Mitochondrial Protection

Mitochondrial membranes are destroyed by radicals
if not protected by OM24[®]

Protected by OM24[®]

Not protected

First single case

Benign nevus

First week

Third week

Benign melanocytical nevus: Initial appearance and after 3 weeks of treatment with Body Lotion 2 times a day.

After 3 weeks without pathological findings.

Biopsy and controlled by Pathological Institute Enge, Zurich

Altersflecken



Light spots

After 6 weeks: Treated with 0.4% OM24[®]
right side 1/d - left 3/d

Reduktion geschädigter Zellen



Placebo controlled study with UV-Irradiated skin

Universitätsspital Zürich. Institut of Dermatology

Prof. Dr. med. R. Dummer.

Reduction of the number of damaged cells after heavy UV irradiation. Referenced by tumor suppressor protein p53

Gen-Array analyse of 52000 RNA positions

Urticaria



Urticaria treated with Body Lotion containing OM24®

Before treatment

10 min after treatment



4protection Intensive cream mit 0.4% OM24

3. Oktober 2012

5. Oktober 2012

Atopic Dermatitis



June 2016

SWISS MADE

Atopic Dermatitis, treated with
0.4% OM24 Lotion and Tablet 500mg/d



Aug. 2016

Ruben 1.5 Jährig



5. Sept 2019

11. Sept. 2019

OM24[®] compared to Hydrocortisone



Skin redness

Skin irritation patch test



Placebo



OM24 treated



Wound Care Application



Open wound

24h later
Not treated

Treated with
OM24

10.3. 2015

25. April 2015

Täglich Novigel 2% und Intensive Cream

AUG 13. 2015

Scar treatment Novigel 2%



12.11.2018

21.11.2018

30.11.2018



Mr. Olumide John

18. Okt. 2016

15. Dez. 2016



Gene analysis of 52000 genes

- Differences found in 500 genes
- Downregulation of negative genes expressed with UV radiation
- Upregulation of useful genes expressed with UV radiation (SOD 650%, GPX 350%)
- MMP1 regulation results in downregulation of Collagenase



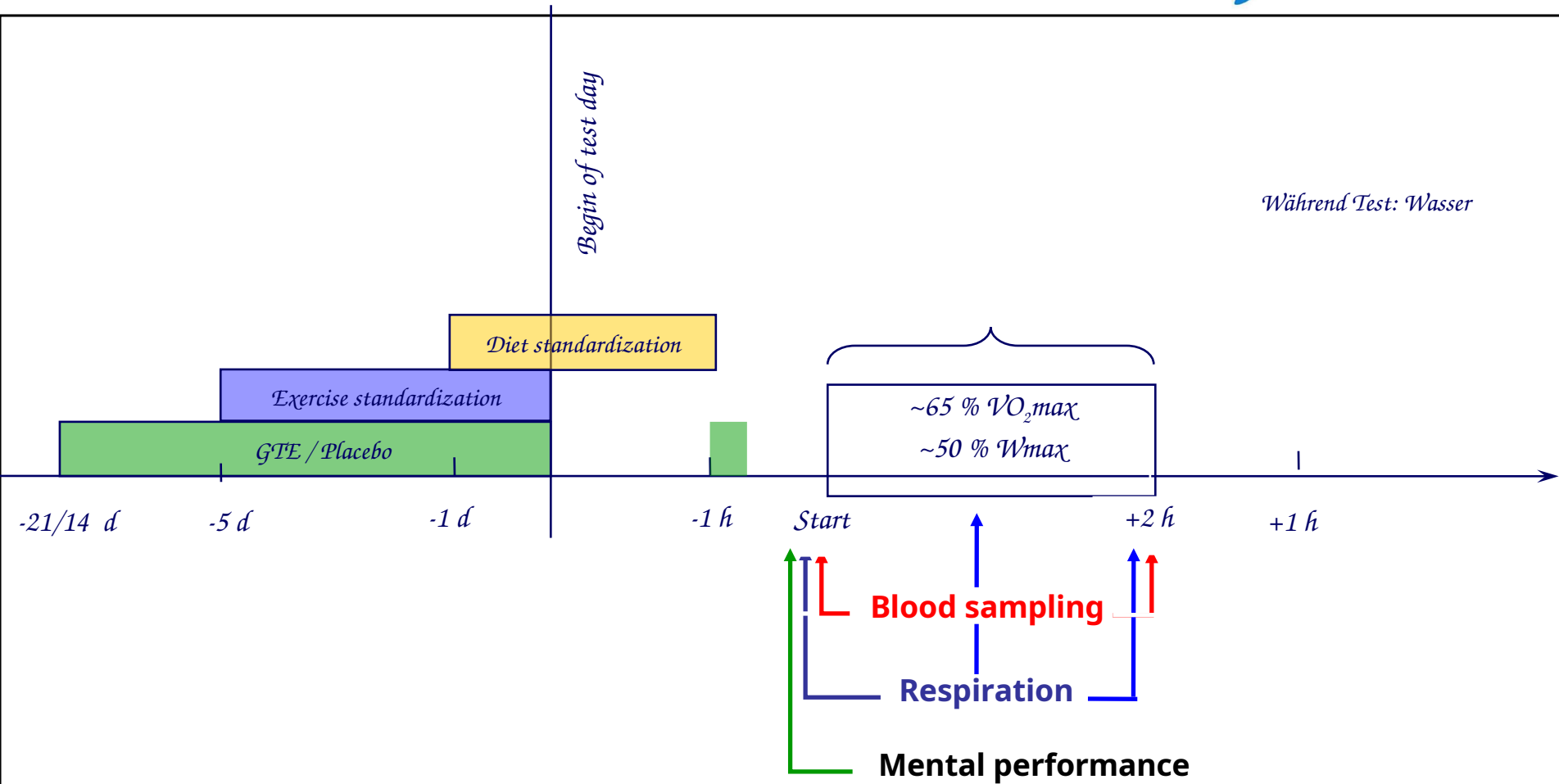
Summary of Study Results

- Significant less damaged cells
- Less apoptotic cells
- No tachiphylaxie
- No side effects
- Collagenase inhibition preserves skin elasticity
- Stimulation of body own defense system against free radicals: SOD, GPX and Catalase upregulation

Study OM24 500mg

Influence on Metabolism

Study Design



Oral study HDL Increase 500mg OM24®



HDL is significantly increased with OM24®

$p(\text{trial}) = 0.043$



Oxidiertes LDL

$$p(\text{trial}) = 0.462$$



Sauerstoffaufnahme (VO_2)

6
0
4

$p(\text{trial}) = 0.333$

$p(\text{time}) = 0.016$

$p(\text{time} * \text{trial}) = 0.942$

$p(\text{Startwert}) = 0.593$



Heart frequency



6
2
2

$p(\text{trial}) = 0.456$
 $p(\text{time}) = <0.001$
 $p(\text{time} * \text{trial}) = 0.923$
 $p(\text{Startwert}) = 0.713$



Kreatin Kinase



Oral Study Creatine Kinase (CK)



CK significantly lower with OM24®

p(trial) = 0.039
p(time) < 0.001
p(initial) = 0.042



CK als Nekrosefaktor bei Herzinfarkt



Oral Study Inflammation: IL-6



IL-6 inflammation factor
lower with OM24® during physical stress

$p(\text{time}) = <0.001$





Xanthin and Theanine Activity Mechanism

Reduction for depression feeling and anxiolysis

Alpha brain waves are reduced
The result is a reduction of

- Stress
- Anxiety
- Blood pressure

The activity comes from a very
Good balance between the natural
ingredient gamma-ethylamino-L-
glutamate (T) a free amino acid and
trimethylxanthine (C) bound on the
antocyanidines. The combination (T+C)
In a optimised correlation results in a
mood enhancing effect.



Tim 9 Jahre ADHS

- ADHS abgeklärt
- emotional unausgeglichen
- schnell müde
- emotional gereizt
- immer auf Empfang
- leicht ablenkbar

- Zusammenbruch vor 2 Jahren
- ging nicht mehr alleine aus dem Haus
- hatte Mühe tägl. Dinge zu verrichten
- ohne Ritalin
- psychotherapeutische Begleitmassnahmen

1-2 Tablets 500mg OM24 + CellaNova optional
Tick ab Anfang August 14



Tim, 48h später

- Neue Dosierung
- 3 Tage 2x2 Tablets
- Tick komplett verschwunden
- Letzte 3 Tage Reduktionsversuche
- 1 Tablet reduziert: Tick kommt wieder
- Dann wieder 2x2 Tablets
- Im Wechsel reduzieren
- Nach 4 Wo stabil mit 2-1
- Fühlt sich noch müde
- > spricht für 2-2 oder ein Getränk



Summary

OM24 is a natural active ingredient

- Evidence based
- Standardized, GMP, pharmaceutical quality
- Approved by cell biological and clinical studies
- For oral and dermatological applications
- Unique in physicochemical properties
- Unique in physiological activity



Research is nothing worth without applications