



IMARS-15

Glycation in food, health and disease

16 - 19 September 2024
Maastricht | The Netherlands









the impact

IMARS-15
Growth in food, health and disease
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Netherlands



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Prof. Reiko Inagi
Tokyo, Japan

Dr. Kristiaan Wouters
Maastricht, The Netherlands











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Mastrocola

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Prof. Monika Fischer-Schneider
Kongress-Gesellschaft





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WELCOME
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tiano

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Berlin, Germany





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Innovation in Food, Health and Science

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Speaker
Germany



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Research
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Melbourne
Australia

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Infectious, Microbial and Disease





Prof. Ryoji Nagai
Kumamoto, Japan

Dr. Thomas Fleming
Helmholtz, Germany





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Chad Cornett
Member of the Maastricht University of Health Sciences



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Prof. Katarína Sebeková
MAS 10
Katarína Sebeková

MAS 10
Katarína Sebeková



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Diagnosis

THESIS-13
ΠΡΩΤΟΕΤΗΣ
ΧΡΥΣΑΝΘΟΥ
ΕΠΙΧΕΙΡΗΣΙΑΚΟ
ΠΡΟΓΡΑΜΜΑ
ΕΡΕΥΝΑΣ

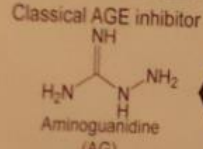
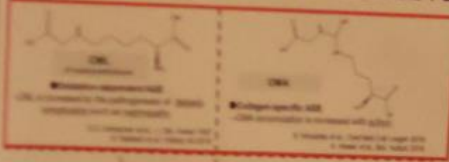




Establishment of culture method for industrial use of *Drosera sp.* targeting anti-glycation activity

Yuki Tominaga*, Takahiro Katogi[†], Yoshikazu Hoshi[‡], and Ryoji Nagai[§]
^{*}Laboratory of Food and Regulation Biology, Department of Food and Life Science and
[†]Laboratory of plant environmental science, Department of Plant Science, School of Agriculture, Tokai University

(Introduction)



(In order to use this plant commercially, it is necessary to study the conditions to cultivate at a lower cost)

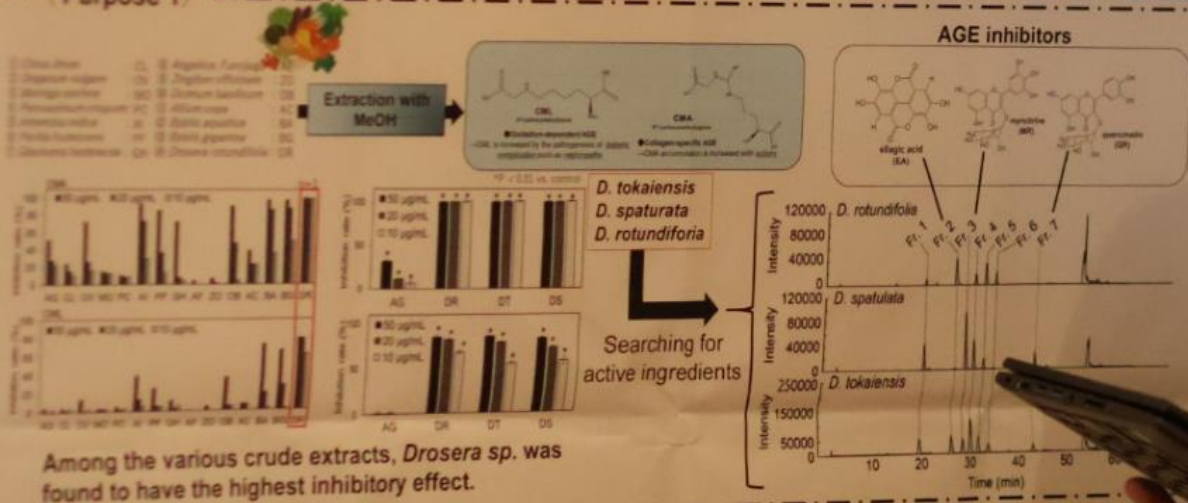
The search for new inhibitors with fewer side effects is important

(Purpose)

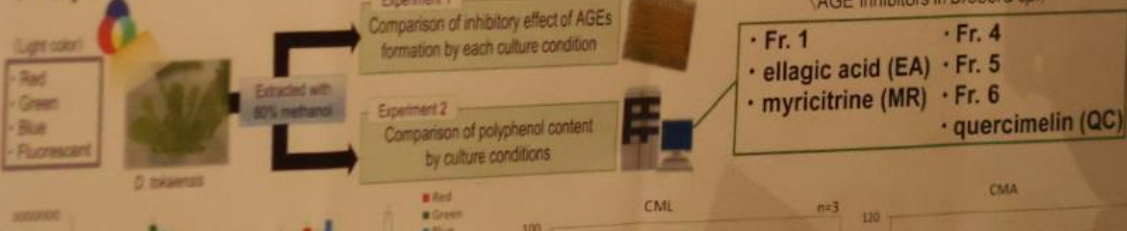
1. Screening of natural compounds that inhibit AGEs formation
2. Evaluation cost-effective cultivation conditions by focusing on light

The inhibition of AGE formations is expected to prevent the pathogenesis of lifestyle-related diseases

(Purpose 1)



(Purpose 2)







De directie aanvaardt geen aansprakelijkheid door vermissing of diefstal van voorwerpen van de gebruiker uit deze zaal.







Effect of brewer reaction products storage of l

Dr. Gillian Roberts, School of Food Science

Background

When produced, LAL can contain other
compounds, including, but not limited to
amino acids, which can be used as markers of
freshness and quality of LAL.

Methodology

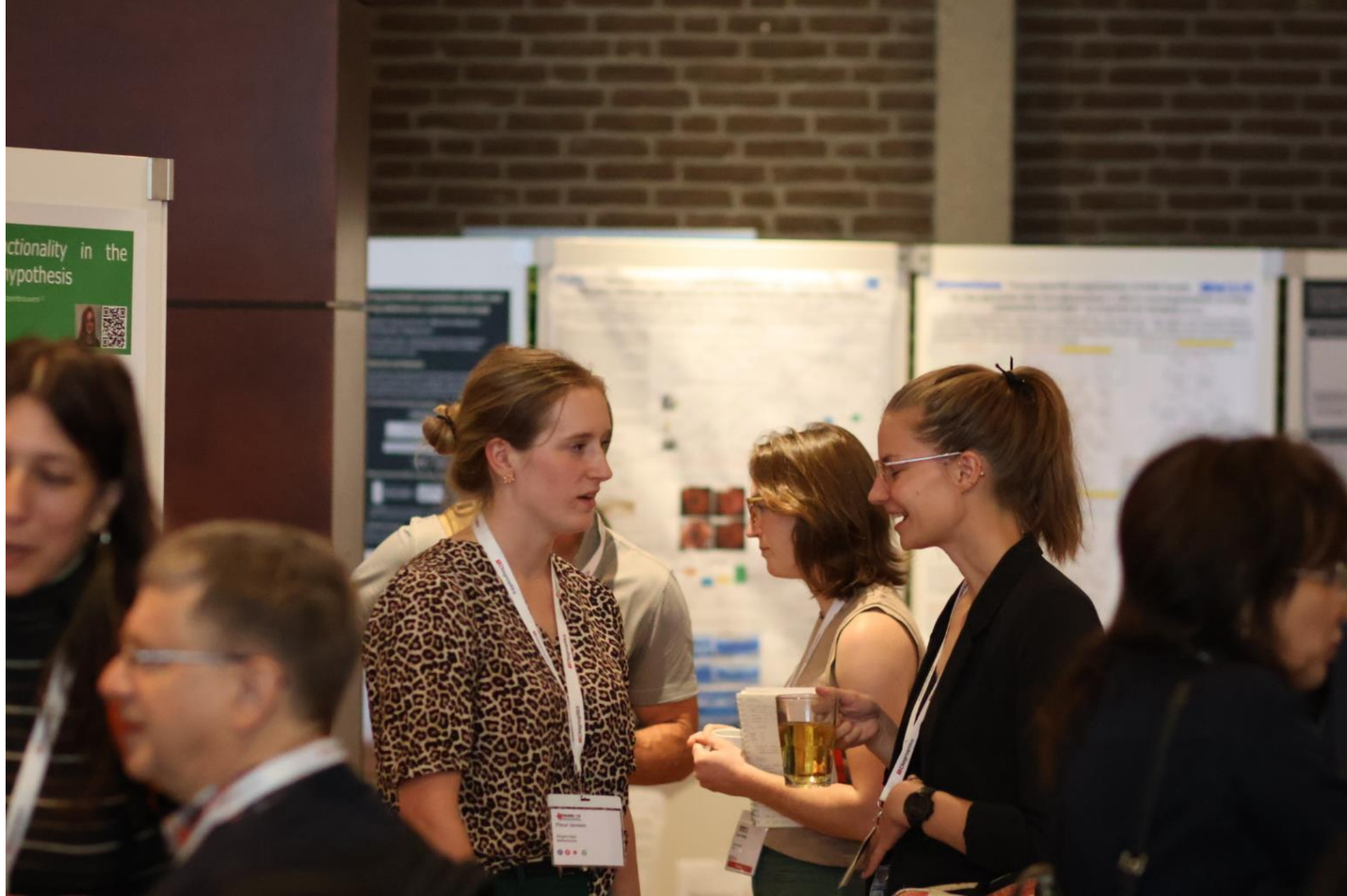












α -DICARBONYL COMPOUNDS IN MODEL REACTION SYSTEMS AND FOOD WITH MALTOOLIGOSACCHARIDES



Anna PRŮŠOVÁ • Anna MEČÍŘOVÁ • Zuzana PROCHÁZKOVÁ • Karel CEJPEK

¹Department of Food Analysis and Nutrition, UCT Prague, Technická 3, 166 28, Czechia, ujep@uct.ac.cz



Motivation **Keywords:** Maltose; Maltulose; Maltoligosaccharide-rich foods; Maltoligosaccharide-specific α -dicarbonyl compounds; 1,4-transglutaminase; *Streptococcus*

α -dicarbonyl compounds (α -DCs) arising from the Maillard reaction are precursors of many perceived food components with sensory and reducing properties, and some harmful ones such as process...
In food, α -DCs are involved in the decrease of nutritional value, in sensory and redox changes as well as changes in technological functionality and properties of proteins. In GI tract, they may act as antibacterials, among others. In the human body, α -DCs can propagate carbonyl and oxidative stress.

Experimentals

- **Samples:** Model binary reaction systems of α -DCs and GABA, 5.8 hrs, denatured pure reaction or in dark, constant. Syrnas and coffee samples from local markets, beer and wort from the university brewery.
- **Determinations:** α -DCs determined by 1,4-transglutaminase (GPD) with subsequent 2D-IT, phosphorylation (P) and 2D-IT (2D-IT) and LC-MS/MS (QTOF MS/MS, Quattro in MS2) in the form of glycosides.

• **Experimental setup for food**





2023

... and ...

... similar to both ...
... and ...

Table 2

Diagnoptics











Dr. Gosia Teodorowicz

Amsterdam, The Netherlands







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Nam Bui

HARS 15



















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**6th International
Maillard Symposium
London 1997**















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Prof. Alberto Fiore

Quebec, United Kingdom

Prof. Antonio T...

Portici (Na), Ita...







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Bronzo
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€ 100.-

IMARS-15
15th International Meeting on Mars Research and Exploration
14-18 September 2024, Montecatini Spa, Italy

President
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SPER SCHALKWIJK
For his Vision and
Leadership as Seventh
Co-President of
"Royal" Maritime Association - Boreas
September 2024

Appreciation Award
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PAUL THOMAS MALLEY
For his Vision and
Leadership as
President of
"Royal" Maritime Association - Boreas
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Time to go!
The end

