



## 3<sup>rd</sup> Young AGERs symposium on Maillard reaction in food and in vivo

July 12-13, 2018

Wageningen University and Research, Netherlands

 Short presentation (15 minutes)

 Flash presentation (5 minutes)

Thursday 12<sup>th</sup> of July

Location: Room C213, Forum (building 102, Wageningen Campus)

### Maillard reaction in food and plants

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| 10.15 am | Registration   |
| 10.30 am | Opening  |
| 10.45 am | <b>Prof. Dr. Vincenzo Fogliano, Wageningen/NL</b><br>Maillard reaction products and mankind evolution: are AGEs so bad for human body?   |
| 11.15 am | <b>Sandra Grebenteuch, Berlin/DE</b><br> Oxidative stability of $\omega$ -6 and $\omega$ -3 fatty acids under food processing conditions        |
| 11.25 am | <b>Carmen Diez, Wageningen/NL</b><br> Un-targeted metabolomics for the characterization of Maillard reaction products in process flavors      |
| 11.45 pm | <b>Clemens Kanzler, Berlin/ DE</b><br> Formation and structure of colorants derived from pentoses and their heterocyclic degradation products |
| 12.05 pm | Lunch  |
| 1.30 pm  | <b>Stephanie Treibmann, Dresden/ DE</b><br> Creatin as a scavenger for 1,2-dicarbonyl compounds in meat                                       |
| 1.50 pm  | <b>Hao Zhang, Wageningen/NL</b><br> The role of melanoidins in trapping dicarbonyl compounds: effect and mechanism                            |
| 2.00 pm  | <b>Ahsen Yüksel, Ankara /TR</b><br> Investigation of the effect of green tea treatment on in vitro casein glycation                           |
| 2.20 pm  | <b>Mahesha M. Poojary, Copenhagen/DK</b><br> Green Tea Polyphenols decrease the formation of advanced glycation end products in UHT milk      |
| 2.30 pm  | Coffee break   |

2.50 pm



**Ezgi Doğan Cömert, Ankara/TR**

Mitigation of ovalbumin glycation in vitro by its treatment with green tea polyphenols

3.10 pm



**Jiahao Yu, Avignon/FR & Wuxi/China**

Amadori compound determination and bioactive (antioxidant and angiotensin-converting enzyme inhibitory activities) evaluation and their effects on relevant bioactivities of black garlic and bell pepper

3.30 pm

**Coffee break**

3.50 pm



**Yuxi Deng, Wageningen/NL**

Effect of Maillard induced glycation on protein hydrolysis

4.10 pm



**Thomas Hofmann, Dresden/ DE**

Metabolic Transit of Maillard Reaction Products in Cattle

4.30 pm



**Nam Bui, Wageningen/NL**

Intestinimonas, a fructoselysine degrader as potential health promoting bacterium

4.50 pm

**closing**

7.00 pm

**Evening event**

## Maillard reaction in vivo

- 9.30 am      **Opening**
- 9.40 am      **Prof. Dr. Harry Wichers Wageningen/NL**  
AGEs and Immunity: still a lot to be learnt!
- 10.10 am     **Ying Deng, Wageningen/NL**  
 Effects of Structural Modifications on Immunogenicity of Food Proteins
- 10.30 am     **Gosia Teodorowicz, Wageningen/NL**  
 Interaction of Maillard reaction products from bovine milk with human macrophages
- 10.50 am     **Coffee break**
- 11.10 am     **Thibault Teissier, Lille/ FR**  
 Knock-out of receptor for advanced glycation end-products (RAGE) attenuates AGE-related renal lesions
- 11.30 am     **Tatenda Chimhanda, Maastricht/NL**  
 N. Hanssen Maastricht/NL, O. Brouwers, Maastricht/NL, P.A.J. Krijnen, Amsterdam/NL  
 $\alpha$ -Dicarbonyls are increased in the left ventricle during myocardial infarction in humans and overexpression of glyoxylase-1 reduces infarct size in a rat model of myocardial infarction
- 11.50        **Coffee break**
- 12.10 am     **Mathias van den Eynde, Maastricht/NL**  
 Quercetin but not epicatechin decreases plasma levels of methylglyoxal in (pre)hypertensive adults; a randomized double-blind, placebo-controlled, crossover trial with pure flavonoids
- 12.30 am     **Axel Guilbaud, Lille/ FR**  
 Effects of a probiotic on glycation in a type 2 diabetes mouse model
- 12.50 am     **Kim Maasen, Maastricht/NL**  
 High dietary glycaemic load is associated with increased levels of plasma and urinary methylglyoxal-hydroimidazolone (MG-H1) in Type 2 Diabetes: The CODAM Study
- 1.10 pm      **Closing**