

Round Table Meeting of the Senate Commission on
Food Safety (**SKLM**) of the
German Research Foundation (DFG)

**„Nitrate and Nitrite in the Diet,
Benefit / Risk for Human Health”**

27th November 2012

German Research Foundation (DFG)
Kennedyallee 40, 53170 Bonn, Germany

Round Table Meeting of the DFG Senate Commission on Food Safety (SKLM)

„Nitrate and Nitrite in the Diet, Benefit / Risk for Human Health”

27th November 2012, German Research Foundation (DFG), Kennedyallee 40, 53170
Bonn, Germany

Each presentation: 30 minutes + 10 for discussions;

Introduction

08:30 – 08:40 **Introduction**
Eisenbrand, G. – Chairman of the SKLM

Keynote lectures

08:40 - 09:20 **Structure and activity of N-nitrosocompounds (NOC) and
overview on endogenous nitrosation (bio)chemistry**
Eisenbrand, G. – SKLM, TU Kaiserslautern, Kaiserslautern (GER)

09:20 –10:00 **Endogenous NOC formation from all potential sources and
perspectives for biomarker monitoring**
Hecht, S. – University of Minnesota, Minneapolis, (USA)

10:00 – 10:30 *Coffee break*

10:30 – 11:10 **Physiological effects of nitrate, nitrite and nitric oxide:
An Overview on recent insights**
Lundberg, J. – Karolinska Institute, Stockholm (SE)

- 11:10– 11:50** **Nitrate and metabolites: effects on the cardiovascular system – is there a role for nutritional intervention?**
Ahluwalia, A. – Queen Mary University, London (UK)
- 11:50 – 12:30** **Association of human cancer incidence with nutritional nitrate/nitrite**
Sinha, R. – National Cancer Institute, NIH, Rockville (USA)
- 12:30 – 13:20** *Lunch*
- 13:20 – 14:00** **Carboxymethylating/ methylating agents associated with dietary nitrosating agents: potential role in gastrointestinal carcinogenesis**
Shuker, D. – The Open University, Milton Keynes (UK)
- 14:00 – 14:40** **Effect of dietary meat and fish on endogenous nitrosation, inflammation and colorectal cancer**
Kuhnle, G. – University of Reading, Reading (UK)
- 14:40 – 15:10** *Coffee break*
- 15:10– 15:50** **Dietary Nitrate and Nitrite: Friend or foe?**
De Kok, T. – University of Maastricht, Maastricht (NL)
- 15:50 – 16:30** **Intragastric formation of nitrosocompounds (NDMA) after dietary nitrate intake using an in-vitro digestive model**
Zeilmaker, M. – RIVM, Bilthoven (NL)
- 16:30 – 18:00** **General discussion: gaps in knowledge/ research needs**