

## NON-IGE MEDIATED IMMUNE REACTIONS TO FOODS: RESEARCH NEEDS AND SCIENTIFIC APPROACHES TO ASSESSING SAFETY.

*A FAAM 2016 pre-meeting workshop, organized by:*  
ILSI Health & Environmental Sciences Institute (HESI)  
Protein Allergenicity Technical Committee (PATC)



**12-13 October, 2016**  
Sheraton Roma Hotel & Conference Centre,  
Rome, Italy.



### Final Agenda

#### **Day 1 – Wednesday October 12<sup>th</sup>, 2016:**

**8:00 – 8:10: Welcome/Opening Remarks**

**8:10 – 12:30: Session 1: Formal invited presentations** – *Session lead: Dr. Frits Koning, Leiden University Medical Centre.*

**Part I:** *State-of the Science on Celiac Disease.*

**Part II:** *Safety assessment of newly expressed proteins and non-IgE mediated immune response; and current trends in gluten-free foods.*

8:10 – 8:40	Non-IgE mediated mechanisms of allergy (genetics, molecular pathways, diagnostic models). <i>Dr. Antonella Cianferoni, Children's Hospital of Philadelphia.</i>
8:40 – 9:10	Review of the immunology of Celiac Disease (CD), diagnosis and epidemiology. <i>Dr. Renata Auricchio, European Laboratory for the Investigation of Food-Induced Diseases.</i>
9:10 – 9:40	Molecular basis of celiac disease and consequences for evaluation of CD risk potential of proteins. <i>Dr. Frits Koning, Leiden University Medical Centre.</i>
9:40 - 10:10	Minding the Ps and Qs: repeated sequences in nut and seed albumins related to those in gliadins and glutenins. <i>Dr. Catherine Schein, Foundation for Applied Molecular Evolution, Inc.; University of Texas, Medical Branch.</i>
<b>10:10 – 10:30</b>	<b>COFFEE BREAK</b>
10:30 – 11:00	Current trends in gluten-free foods. <i>Dr. Pietro De Albertis, Barilla.</i>
11:00 – 11:30	Overall safety assessment of GM crops, with focus on allergenicity. <i>Dr. Greg Ladics, DuPont Co.</i>
11:30 - 12:00	Modeling local alignments within allergens and celiac proteins. <i>Dr. Scott McClain, Syngenta Crop Protection.</i>
12:00 – 12:30	EFSA proposal for the risk assessment of newly expressed proteins concerning non-IgE-mediated immune responses. <i>Dr. Antonio Fernandez-Dumont, EFSA.</i>

**12:30 – 13:30: LUNCH**



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Research Needs and Scientific Approaches to Assessing Safety”.**

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**13:30 – 16:30: Session 2: Interactive Discussion on protein characterization platforms used to assess the CD potential of specific proteins.** Facilitator: *Dr. Antonella Cianferoni, Children’s Hospital of Philadelphia.*

- Are these characterization platforms suitable in conjunction with hypothesis testing/hazard identification for individual proteins or foods?
- What data is suitable for characterizing novel proteins for non-IgE mediated hazards?
- Is quantitative risk assessment possible for non-IgE mechanisms? What types of data would be needed to assess food safety in the context of non-IgE mediated allergy? Do we have these data/research?
- What data are still needed? What resources are required?
- Is there is a GM vs. non GM issue in this context?
- How regulatory guidance would add value to food safety; is it needed at all?

*15:00-15:15: Coffee break*

[16:30 – 18:30 - Free time for audience and speakers]. Rapporteurs meet to summarize discussion points for next day.

**18:30 – 20:00: Networking reception:** all participants are invited.

**Day 2, Thursday October 13<sup>th</sup>, 2016:**

**9:00am – 11:30 am: Session 3: Bringing it Together.** *Facilitator- Prof. Ronald van Ree, Academic Medical Center, University of Amsterdam.*

- Facilitators present the key discussion points from Day 1 (30 minutes)
- Open discussion, review of the key discussion points (60 minutes)
- Consensus on key conclusions from the think tank for publication and next steps (60 minutes)
- Closing remarks



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