

THE PROBLEM OF FOOD ALLERGY



A potentially lethal condition



- Among the most prevalent diseases in the western world, affecting patients and at least an estimated 4-fold of people in their environment
- Health impact is higher than that posed by all known chemicals and microbes in food
- Health impact exceeds, for example, that of skin cancer, Parkinson's disease or cardiac arrest, or is approximately the same as, for example, that of prostate cancer, asthma or rheumatoid arthritis
- > Loss of Quality of Life contributes strongly to the loss of health

THE PROBLEM OF FOOD ALLERGY



No prevention or cure available, medication only to suppress effects

Ability by allergic consumers to avoid allergenic foods is of life importance...but this is hardly or not possible

An enormous economic impact

≻Public:

- TNO-UMCU study:
 - 4 hospital visits per 100 food allergic individuals per year
 - 0.6 hospitalizations per 100 food allergic individuals per year

(Michelsen et. al., submitted)

N.b.: < 100 hospitalizations due to food infections/year in NLD (RIVM, 2013)

> Private

- Preventive measures/risk management
- Several studies: 30 to almost 50 % of food product recalls allergen related







TNO has initiated a non-profit Shared Research Program (SRP) Food Allergy; Towards a Food-Allergy-Free World, to keep us firmly on course to reduce society's food allergy burden.

www.srpfoodallergy.com

FOOD-ALLERGY-FREE WORLD

WHAT



Protect foodallergy sufferers





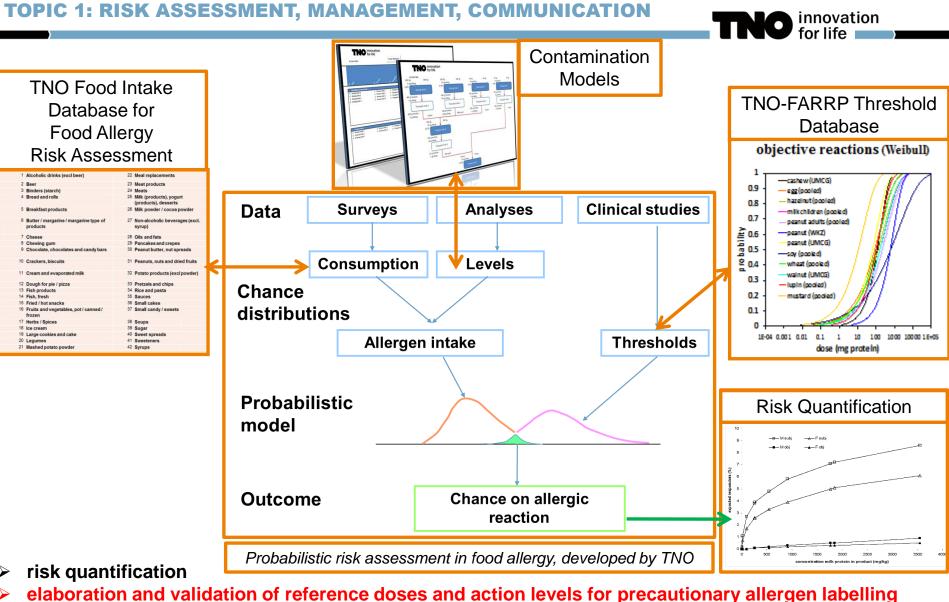
WHAT IS NEEDED?

IMPROVED RISK ASSESSMENT, MANAGEMENT AND COMMUNICATION METHODS FOR PREDICTION OF THE HEALTH IMPACT OF NEW FOODS METHODS FOR MONITORING AND EFFECT ASSESSMENT OF INTERVENTIONS

TOPIC 1 TOPIC 2 TOPIC 3

HOW

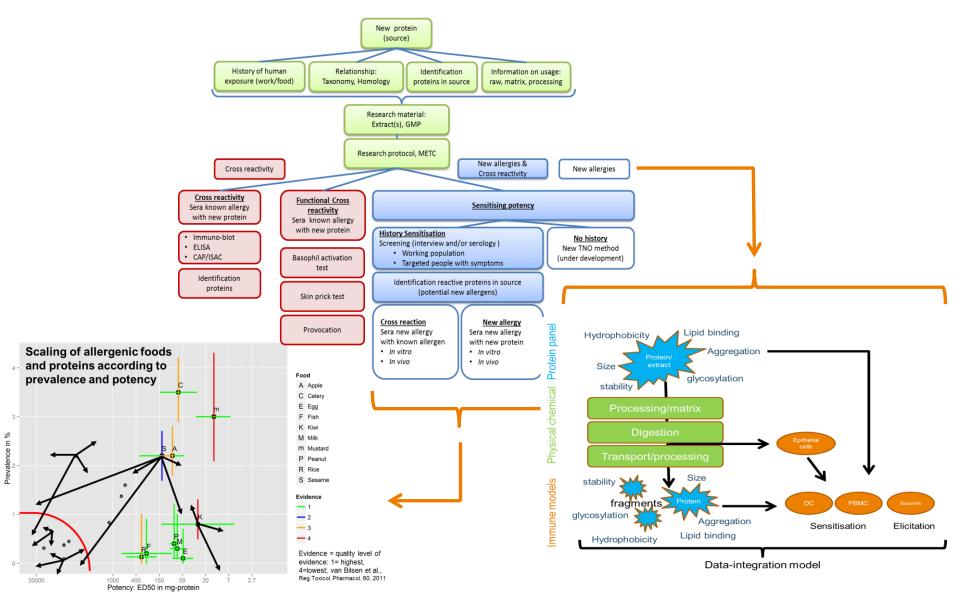
THE TNO SHARED RESEARCH PROGRAM FOOD ALLERGY



- development of guidance & tools for application and implementation (incl. models to predict levels of contamination,, and guidance on food consumption figures to use)
- support and training of authorities and companies in application and implementation



TOPIC 2: PREDICTION OF THE HEALTH IMPACT OF NEW FOODS



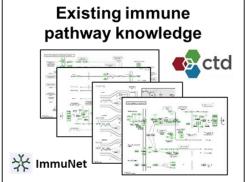
THE TNO SRP IMMUNE HEALTH THEME

INTERACTIVE BIG DATA RESOURCE

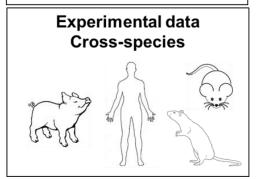


APPROACH

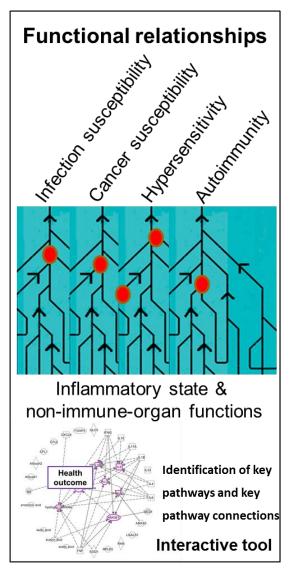




Microbes and microbe-host interactions

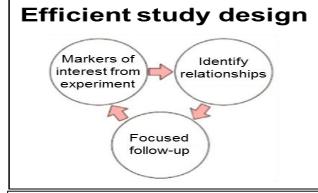


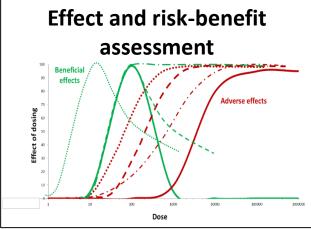
AIM



BENEFITS

- Biomarker discovery and selection for efficient diagnosis, prognosis and monitoring
- Target discovery for prevention and therapy









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- Key characteristics of SRP
 - > Participation per program line
 - > 3-year contracts
 - > Annual fee (fixed per program line)
 - Open for entrance of new participants (entrance fee)





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Sponsors per 1/1/2017















'Towards a Food Allergy Free World'



