





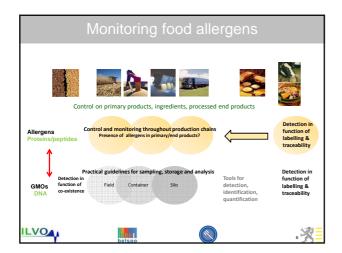




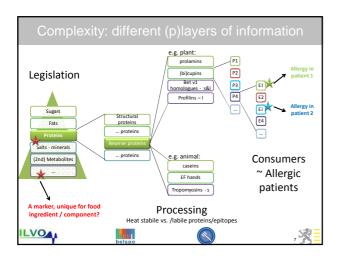
Why and what to test for?
Involvement of Hidden Allergens in Food Allergic Reactions
B Anibarro, FJ Seoane, MV Múgica
A retrospective study was carried out in an adult population. Over a five year period, a total of 530 food reactions were reviewed.
One hundred nineteen reactions (22.4%) were considered to be due to hidden allergens. Thirty-two percent of these were anaphylactic reactions.
J Investig Allergol Clin Immunol 2007; Vol. 17(3): 168-172



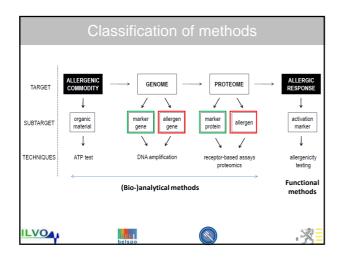




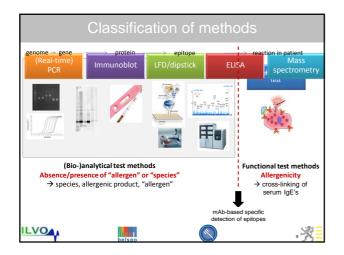




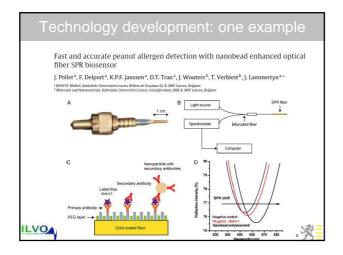




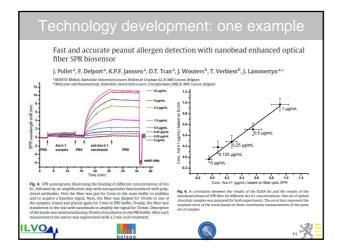




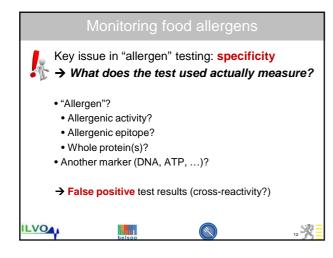


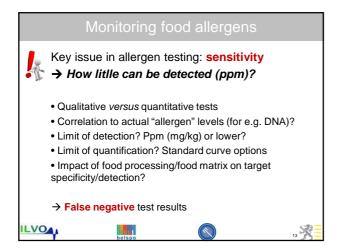


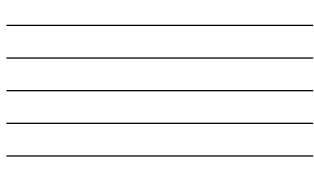


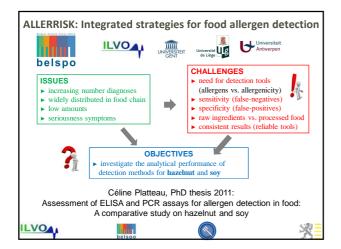




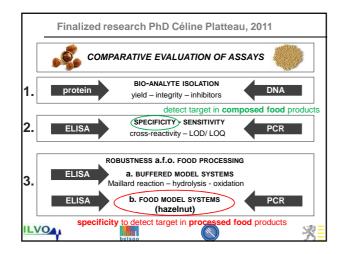




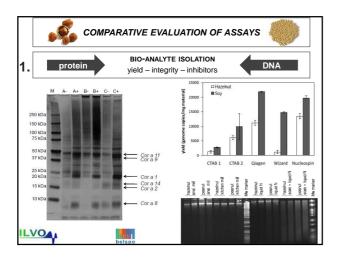




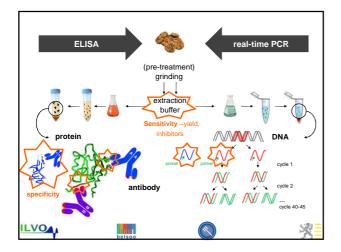




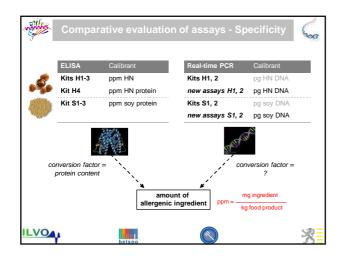














		HAZ	ELNUT	SOY			
Black: >LOD kit Red: >LOQ kit	Kit H1	Kit H2	Kit H3	Kit H4	Kit S1	Kit S2	Kit S3
	F	opm hazelnu	ut	ppm HN protein	ppm soy protein		
Almond	0.52	0.26	0.37	0.001	0.59	/	/
Brazil nut	0.06	0.14	/	0.01	/	/	/
Cashew	1.60	0.58	0.79	/	0.55		/
Kamut	/	0.06		/	1.65	/	/
Lettuce	1.61	0.53	0.02	0.02	/	1.82	/
Macademia	0.45	0.14	/	0.001	/	/	/
Oat	/	0.09	0.16	/	10.76	69.10	3.30
Pea	0.37	/	/	/	4.69	/	/
Peanut	0.26	0.15	/	/	0.72	/	/
Pecan nut	2.22	0.34	/	/	/	/	/
Pistachio	0.45	0.12	0,21	/	0.34	/	/
Rapeseed	0.62	0.17	0.63	0.02	0.54	/	/
Spelt	/	0.09	0.17	/	/	22.91	1.05
Walnut	5.41	0.31	0.01	0.02	/	/	/



	HAZELNUT				SOY			
	Assay H1	Assay H2	Kit H1	Kit H2	Assay S1	Assay S2	Kit S1	Kit S2
Apple	/	/	/	/	/	/	/	/
Barley	/	/	/	/	/	/	/	/
Grape	/	/	/	/	/	/	/	/
Lettuce	/	/	+	/	/	/	/	/
Maize	/	/	/	/	/	/	/	/
Oat	/	/	/	/	/	/	/	/
Peanut	/	/	/	/	/	/	/	/
Pistachio	/	/	/	/	/	/	/	/
Raspberry	/	/	+	+	/	/	/	/
Rice	/	/	/	/	/	/	/	/
Spinach	/	/	/	/	/	/	/	/
Strawberry	/	/	+	+	/	/	/	/
Walnut	/	/	/	/	/	/	/	/
Wheat	/	/	/	/	/	/	/	/



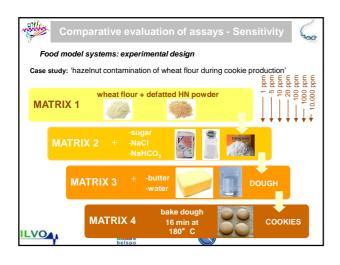


 in silico (theoretical) determined cross-reactivity in some cases confirmed experimentally

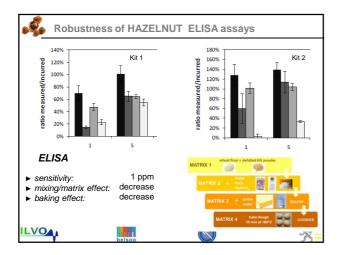
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- different kits = different responses !
- ► <u>ELISA</u>: cross-reactivity detected, could be problematic in case of **bulk ingredients** (cfr. oat)
- \blacktriangleright <u>PCR</u>: contamination of retail samples with hazelnut/soy revealed
- ► specificity ELISA tests < real-time PCR assays

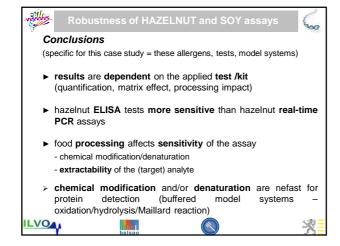




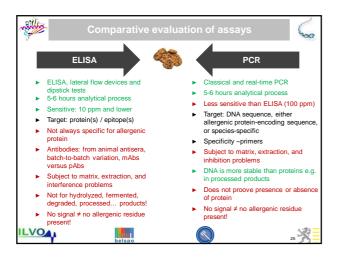




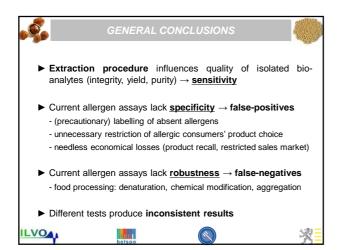


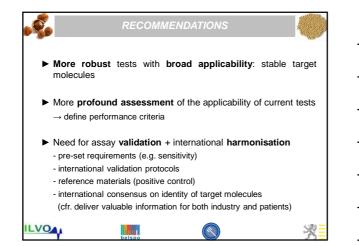












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