# ImmunoCAP<sup>®</sup> Cross-Reactivity Map

Te	ch			
ISAC 112	ImmunoCAP	SOURCE	COMPONENT	PROTEIN FAMILY OR FUNCTION

				P	'OS	si	ble	e (	Cro	)SS	5-F	Red	ЛC	tiv	vit	V				
Fruits	Vegetables	Nuts and seeds	Legumes	Cereals	Spices	Grass pollen	Tree pollen	Weed pollen	Latex	Milk	Meat	Fish	Egg	Seafood	Animals	Moulds	Mites	Insects	Venoms	Parasites

### FOOD ALLERGENS

n	n	n	Egg white	Gal d 1	Ovomucoid	
n	n	n	Egg white	Gal d 2	Ovalbumin	
n	n	n	Egg white	Gal d 3	Conalbumin/Ovotransferrin	
	n	n	Egg	Gal d 4	Lysozyme	
n			Egg yolk/chicken	Gal d 5	Livetin/Serum Albumin	
n	n	n	Cow's milk	Bos d 4	Alpha-lactalbumin	
n	n	n	Cow's milk	Bos d 5	Beta-lactoglobulin	
n	n	n	Cow's milk and meat	Bos d 6	Serum Albumin	
n	n	n	Cow's milk	Bos d 8	Casein	
n	n	n 🗌	Cow's milk	Bos d Lactoferrin	Transferrin	
	r	r	Carp	Сурс1	Parvalbumin	
r	r	r	Cod	Gad c 1	Parvalbumin	
n	r	r	Shrimp	Pen m 1	Tropomyosin	
n			Shrimp	Pen m 2	Arginine kinase	
n			Shrimp	Pen m 4	Sacroplasmic Calcium binding protein	
r			Cashew nut	Ana o 2	Storage protein, 11S globulin	
r	r	r	Brazil nut	Ber e 1	Storage protein, 2S albumin	
r	r	r	Hazelnut	Cor a 1.0401	PR-10	
				0 0		

## Important Allergen Families

## LTP (non-specific Lipid Transfer Protein, nsLTP)

 Proteins stable to heat and digestion causing reactions also to cooked foods Often associated with systemic and more severe reactions in addition to OAS
Associated with allergic reactions to fruit and vegetables especially in regions where peach and closely related fruits are cultivated.

Storage protein
Proteins stable to heat and digestion causing reactions also to cooked foods Often associated with systemic and more severe reactions in addition to OAS
Proteins in nuts and seeds serving as source material during growth of new plants

PR-10 protein, Bet v 1 homologue
Most PR-10 proteins are sensitive to heat and digestion and cooked foods are often tolerated Often associated with local symptoms such as oral allergy syndrome (OAS)
Associated with allergic reactions to pollens, fruits and vegetables

1 1	Hazelnut		LIF Storene protein, 11C globulin			
Now D	Hazeinut	Lug r 1	Storage protein, LIS globulin Storage protein, 2S albumin			Delealein (Calcium hinding proteine)
New n	Walnut	Jug r 2	Storage protein, 25 albunin Storage protein, 75 globulin			• A marker for cross-reactivity between pollen, which is not present in plant foods
New n	Walnut	Jug r 3	LTP			A marker for cross-reactivity between policit, which is not present in plant roods.
n	Sesame	Ses i 1	Storage protein, 2S albumin			
	Descrit	Ave la 1	Ctorene protein 7C globulin			
	Peanut	Arah 2	Storage protein, 75 globulin Storage protein, 25 albumin			Profilin - Drateing consitive to best and direction and conked foods are often telerated
	Peanut	$\Delta rah 3$	Storage protein, 25 albumin Storage protein, 115 globulin			Proteins sensitive to heat and digestion and cooked roods are often tolerated
New n	Peanut	Arah 6	Storage protein, 25 albumin			• Seldom associated with clinical symptoms but may cause local and even severe reactions in
r r	Peanut	Ara h 8	PR-10			some patients
New r r	Peanut	Arah 9	LTP			• Promins are present in all polien and plant roods
r r	Soy bean	Gly m 4	PR-10			
n n	Soy bean	Gly m 5	Storage protein, Beta-conglycinin			
n n	Soy bean	Gly m 6	Storage protein, Glycinin			CCD
New n	Buckwheat	Fage 2	Storage protein 2S albumin			<ul> <li>A marker for sensitization to cross-reactive carbohydrate determinants</li> </ul>
New r	Wheat	Tri a 14	LTP			Rarely causes allergic reactions, but may produce positive in-vitro test results to CCD-containing
r r	Wheat	Tri a 19	Omega-5 gliadin			allergens from pollen, plant foods, insects and venoms.
n	Wheat	Tri a aA_TI	Alpha-Amylase / Trypsin Inhibitor			
n	Kiwi	Act d 1	Cystaina protasa			
n	Kiwi	Act d 2	Thaumatin-like protein			Lipocalin
n	Kiwi	Act d 5	Kiwellin			Stable proteins (and important allergens) in animals
r r	Kiwi	Act d 8	PR-10			Allergen component displaying limited cross-reactivity between species
r r	Celery	Api g 1	PR-10			A mongon component displaying innited cross redetivity between species.
r	Apple	Mal d 1	PR-10			
r r	Peach	Pru p 1	PR-10			
r r	Peach	Pru p 3	LTP			Parvalbumin
r	Peach	Pru p 4	Profilin			Proteins stable to heat and digestion causing reactions also to cooked foods.
		AEROALLERGENS			I	• Often associated with systemic and more severe reactions in addition to OAS
		0.11				• Major allergen in fish and a marker for cross-reactivity among different species of fish and
n n	Bermuda Timothu	Cyn d I Del n 1	Grass group 1			ampnipians
	Timothy	Phi p 1 Dhi n 2	Grass group 2			
n n	Timothy	Phl n 4	Berberine bridge enzyme			Tropomyosin
r r	Timothy	Phl p 5	Grass group 5			Proteins stable to heat and digestion causing reactions also to cooked foods
r r	Timothy	Phl p 6	Grass group 6			• As food allergen often associated with systemic and more severe reactions in addition to $\Omega\Delta$ S
r r	Timothy	Phl p 7	Polcalcin			Actin-binding proteins in muscle fibres and a marker for cross-reactivity between crustaceans
r r	Timothy	Phl p 11	Trypsin inhibitor			mites and cockroach
r r	Timothy	Phl p 12	Profilin			
r	Alder	Aln a 1	PR-10			
r r	Birch	Bet v 1	PR-10			
r r	Birch	Bet v 2	Profilin			Serum albumin
r r	Birch	Bet v 4	Polcalcin			Proteins fairly sensitive to heat and digestion.
r	Birch	Bet v 6	Isoflavone reductases			• Proteins present in different biological fluids and solids in all animals e.g. cow's milk, blood, beef
r	Hazel	Cor a 1.0101	PR-10			and epithelia.
n	Japanese cedar	Cry j 1	Pectate lyase			Cross-reactions between albumins from different mammalian species are well known, for example
n n	Cypress		Pectate lyase			between cat and dog and cat and pig (pork).
nr		()   a   a   1	Invocio indibitor			
n r	Olive	Ole e 1 Ole o 7	I rypsin inhibitor			
nrNewr	Olive Olive Olive	Ole e 1 Ole e 7 Ole e 9	Trypsin inhibitor LTP Glucanase			
nrNewnNewrr	Olive Olive Olive Plane	Ole e 1 Ole e 7 Ole e 9 Pla a 1	Irypsin inhibitor LTP Glucanase Invertase Inhibitor			
nrNewnNewrrnnn	Olive Olive Olive Plane Plane	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2	Trypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases			Important
nrNewnnNewr-n-Newr-	Olive Olive Olive Plane Plane Plane	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3	Trypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP		Image: select	Important
nrNewnnNewr-n-Newr-	Olive Olive Olive Plane Plane Plane Plane	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1	Trypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Poctate lyase			Important Alleraens
nrNewnnNewr-n-Newr-Newn-n-n-n-n-n-n-n-n-n-n-n-n-n-	Olive Olive Olive Plane Plane Plane Ragweed Mugwort	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art y 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin			Important Allergens
nrNewnnNewr-n-Newr-Newr-nnnnnnnnnn	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 3	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP			Important Allergens
n         r           New         n         n           New         r         -           n         -         -           New         r         -	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor			Important Allergens         Gal d 1, Ovomucoid (egg white)
n       r         New       n       n         New       r       -         n       -       -         New       r       -       -       -         New       r       -       -       -       -	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1	Trypsin inhibitor   LTP   Glucanase   Invertase Inhibitor   Polygalacturonases   LTP   Pectate lyase   Defensin   LTP   Trypsin Inhibitor   Profilin	Image: state stat	Image:	Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked
n       r         New       n       n         New       r       -         r       r       -         r       r       -         r       r       -         r       r       -         r       r       -         r       r       -         r       r       -         r       r <t< td=""><td>Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory</td><td>Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2</td><td>Trypsin inhibitor   LTP   Glucanase   Invertase Inhibitor   Polygalacturonases   LTP   Pectate lyase   Defensin   LTP   Trypsin Inhibitor   Profilin   LTP</td><td>Image: state stat</td><td>Image: select select</td><td>Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.</td></t<>	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2	Trypsin inhibitor   LTP   Glucanase   Invertase Inhibitor   Polygalacturonases   LTP   Pectate lyase   Defensin   LTP   Trypsin Inhibitor   Profilin   LTP	Image: state stat	Image: select	Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.
n       r         New       n       n         New       r       -         n       -       -         New       r       -	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase		Image: select	Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.
n       r         New       n       n         New       r       -         n       -       -         New       r       -         New       n       -         New       <	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort	Ole e 1         Ole e 7         Ole e 9         Pla a 1         Pla a 2         Pla a 3         Amb a 1         Art v 1         Art v 3         Che a 1         Mer a 1         Par j 2         Pla I 1         Sal k 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase	Image: state stat		Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.
n       r         New       n       n         New       r       -         N       -	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1	Irypsin inhibitor   LTP   Glucanase   Invertase Inhibitor   Polygalacturonases   LTP   Pectate lyase   Defensin   LTP   Trypsin Inhibitor   Profilin   LTP   Pectate lyase   Pectate lyase   Profilin   LTP   Pectate lyase   Pectate lyase   Pectate lyase   Lipocalin			Cal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)
n       r         New       n       n         New       r       -         T       -       -         New       r       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -         T       -       -     <	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1 Can f 2	Irypsin inhibitor   LTP   Glucanase   Invertase Inhibitor   Polygalacturonases   LTP   Pectate lyase   Defensin   LTP   Trypsin Inhibitor   Profilin   LTP   Pectate lyase   Pectate lyase   Pectate lyase   Pectate lyase   Lipocalin   Lipocalin			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to
n       r         New       n       n         New       r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog	Ole e 1         Ole e 7         Ole e 9         Pla a 1         Pla a 2         Pla a 3         Amb a 1         Art v 1         Art v 1         Art v 3         Che a 1         Mer a 1         Par j 2         Pla I 1         Sal k 1         Can f 1         Can f 3	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pectate lyase         Profilin         LTP         Pectate lyase         Pectate lyase         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin	Image: set of the set of		Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.
n       r         New       n         New       r         n          New       r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pettin methylesterase         Lipocalin         Lipocalin         Serum Albumin         Arginine esterase/kallikrein			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         March 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and
n       r         New       n       n         New       r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Horse	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pectan methylesterase         Lipocalin         Lipocalin         Arginine esterase/kallikrein         Lipocalin	Image: set of the set of		Important Allergens         Seal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.
n       r         New       r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Horse Horse	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Equ c 3	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pectate lyase         Pectate lyase         Pectate lyase         Pectate lyase         Pectin methylesterase         Lipocalin         Lipocalin         Arginine esterase/kallikrein         Lipocalin         Serum Albumin         Arginine in         Lipocalin			Important Allergens         Seal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.
n       r         New       r         New       r         n          New       r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Horse Horse Cat	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Equ c 3	Trypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pectain methylesterase         Lipocalin         Lipocalin         Serum Albumin         Arginine esterase/kallikrein         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin			Important Allergens         Cal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.
n         r           New         n         n           New         r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogDogHorseHorseCatCatCatCat	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 4	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pectan methylesterase         Lipocalin         Lipocalin         Serum Albumin         Arginine esterase/kallikrein         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         March 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.
n       r         New       r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogHorseHorseCatCatCatCatMouse	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 4Mus m 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Serum Albumin         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Lipocalin			Important Allergens         Gal d 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.
n         r           New         n         n           New         r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Horse Horse Cat Cat Cat Cat Cat Cat Cat Swine	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s Pepsin	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Profilin         LTP         Pectate lyase         Petrin methylesterase         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Serum Albumin			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara
n       r         New       r       n         New       r       r         New       r       r      N       n	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1 Can f 2 Can f 3 Can f 5 Equ c 1 Equ c 3 Fel d 1 Fel d 2 Fel d 4 Mus m 1 Sus s Pepsin	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pettin methylesterase         Lipocalin         Lipocali			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         March 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Cly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.
n       r         New       r          New       r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s Pepsin	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pectan methylesterase         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Acidic glycoprotein         Acidic glycoprotein         Enolase			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating
n       r         New       r	Olive Olive Olive Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1 Can f 2 Can f 3 Can f 5 Equ c 1 Equ c 3 Fel d 1 Fel d 2 Fel d 4 Mus m 1 Sus s Pepsin Alt a 1 Alt a 6 Asp f 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Profilin         LTP         Pectate lyase         Pettin methylesterase         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase </td <td></td> <td></td> <td>Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 &amp; Ara h 1 and Gly m 6 &amp; Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been</td>			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been
n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 2	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Petter         Trypsin Inhibitor         Profilin         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enol			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake
n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Horse Cat Cat Cat Cat Cat Cat Cat Cat Cat Alternaria Alternaria Aspergillus fumigatus Aspergillus	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 3	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pectin methylesterase         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins         Peroxysomal protein			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.
n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla l 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Petate lyase         Petate lyase         Pectate lyase         Pectate lyase         Pectate lyase         Pectate lyase         Petate lyase         Pectate lyase         Pectate lyase         Serum Albumin	Image: state		Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Image: Application of the system of the
n       r         New       r         N       n         N       n         N       n <tr< td=""><td>Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog</td><td>Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1 Can f 2 Can f 3 Can f 5 Equ c 1 Equ c 3 Fel d 1 Fel d 2 Fel d 4 Mus m 1 Sus s Pepsin Alt a 1 Alt a 1 Alt a 5 Asp f 3 Asp f 4 Asp f 6</td><td>Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Peroxysomal protein         Unknown      &lt;</td><td>Image: state s</td><td></td><td>Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 &amp; Ara h 1 and Gly m 6 &amp; Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.</td></tr<>	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1 Can f 2 Can f 3 Can f 5 Equ c 1 Equ c 3 Fel d 1 Fel d 2 Fel d 4 Mus m 1 Sus s Pepsin Alt a 1 Alt a 1 Alt a 5 Asp f 3 Asp f 4 Asp f 6	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Peroxysomal protein         Unknown      <	Image: state s		Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.
n       r         New       r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogDogDogDogDogDogSaltwort	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1 Can f 2 Can f 3 Can f 5 Equ c 1 Equ c 3 Fel d 1 Fel d 2 Fel d 4 Mus m 1 Sus s Pepsin Alt a 1 Alt a 6 Asp f 2 Asp f 3 Asp f 4 Asp f 6 Asp o 21 Cla b 9	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Pettin methylesterase         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins         Peroxysomal protein         Unknown         Mn superoxide dismutase         Alpha-amylase	Image: state stat		Important Allergens         Gal d 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         March 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.
New       n       r         New       r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogDogDogDogDogSaltwortSwineAlternariaAlternariaAspergillus<	Ole e 1 Ole e 7 Ole e 9 Pla a 1 Pla a 2 Pla a 3 Amb a 1 Art v 1 Art v 1 Art v 3 Che a 1 Mer a 1 Par j 2 Pla I 1 Sal k 1 Can f 1 Can f 2 Can f 3 Can f 5 Equ c 1 Equ c 3 Fel d 1 Fel d 2 Fel d 4 Mus m 1 Sus s Pepsin Alt a 1 Alt a 6 Asp f 1 Asp f 2 Asp f 3 Asp f 4 Asp f 6 Asp o 21 Cla h 8	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate Iyase         Defensin         LTP         Profilin         LTP         Pectate Iyase         Ipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogilli	Image: state stat		Important Allergens         Gal d 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         March 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (wheat)         • IgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs- interventione in even the sentence in even the sente
New       n       r         New       r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogDogDogDogDogDogDogSwineAlternariaAlternariaAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusAspergillusBlomia	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4Asp f 6Asp o 21Cla h 8Blo t 5	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Dectain         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins			Important Allergens         Gal d 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (sov)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (Wheat)         • IgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.
New       n       r         New       r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogDogDogDogDogSwineAlternariaAlternariaAspergillusBlomiaDermatophagoides	Ole e 1         Ole e 7         Ole e 9         Pla a 1         Pla a 2         Pla a 3         Amb a 1         Art v 1         Art v 3         Che a 1         Mer a 1         Par j 2         Pla 1         Sal k 1         Can f 1         Can f 2         Can f 3         Can f 5         Equ c 1         Equ c 3         Fel d 1         Fel d 2         Fel d 2         Fel d 4         Mus m 1         Sus s Pepsin         Alt a 1         Alt a 6         Asp f 1         Asp f 3         Asp f 4         Asp f 6         Asp f 6         Asp f 6         Asp f 5         Der f 1	Irypsin inhibitor         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Serum Albumin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins         Peroxysomal protein <td></td> <td></td> <td>Important Allergens         Gal d 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Important Systemic peanut reaction in addition to COAS.         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to COAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 &amp; Ara h 1 and Gly m 6 &amp; Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (tri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.</td>			Important Allergens         Gal d 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Important Systemic peanut reaction in addition to COAS.         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to COAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (tri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.
New       n       r         New       r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogDogDogDogDogDogSaltwortSaltwortSitwortDogDogSogSeeCatCatCatCatCatSwineAlternariaAlternariaAspergillusAspergillusAspergillusAspergillusAspergillusDog <t< td=""><td>Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla 1 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4Asp f 6Asp o 21Cla h 8Blo t 5Der f 1Der f 2</td><td>Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins         Peroxysomal protein</td><td></td><td></td><td>Gal d 1, Ovomucoid (egq white)         • !gE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • !gE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • !gE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 &amp; Ara h 1 and Gly m 6 &amp; Ara h 3 share homologoue structures and may cross-react.         • !gE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (Wheat)         • !gE abs to omega-5 gliadin in children are associated with a risk of exercise- or NSAIDs-induced reactions in connection with wheat ingestion.</td></t<>	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla 1 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4Asp f 6Asp o 21Cla h 8Blo t 5Der f 1Der f 2	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Uteroglobin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins         Peroxysomal protein			Gal d 1, Ovomucoid (egq white)         • !gE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • !gE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • !gE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • !gE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (Wheat)         • !gE abs to omega-5 gliadin in children are associated with a risk of exercise- or NSAIDs-induced reactions in connection with wheat ingestion.
New       n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Horse Korse Cat Cat Cat Cat Cat Cat Cat Cat Cat Swine Alternaria Alternaria Aspergillus Asper	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4Asp f 6Asp f 6Asp f 7Der f 1Der p 1Der p 1Der p 1Der p 1Der p 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Serum Albumin         Uteroglobin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins			Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Important         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Important         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (wheat)         • IgE abs to omega-5 gliadin (irri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.
New       n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4Asp f 6Asp f 6Asp f 7Der f 1Der p 1Der p 2Der p 10	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fi	Image: state s		Important Allergens         Gal d 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (Wheat)         • IgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.
New       n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4Asp f 6Asp f 6Asp o 21Cla h 8Blo t 5Der p 1Der p 10Len d 2	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enol	Image: set of the set of th		Important Allergens         Sald 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (trin a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.         Alta 1 (Alternaria) _ Alta 1 the major ellorene in elterneria is generated with a risk of immediate reactions to wheat.
New       n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Plane Ragweed Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla 1 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 1Asp f 3Asp f 4Asp f 6Asp f 6Asp f 0Der p 1Der p 1Der p 10Lep d 2	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Peroxysomal protein         Mito	Image: set of the set of th		Important Allergens         Gal d 1, Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Mark 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (peanut)         • IgE abs to Ara h 3 (PR-10) are usually associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 5 and 6 (sov)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omeaa-5 gliadin (wheat)         • IgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.         Alt a 1 (Alternaria)         • Alt a 1 (Alternaria)
New       n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla 1 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 2Asp f 3Asp f 4Asp f 6Asp f 6Asp f 0Der f 1Der p 1Der p 10Lep d 2Bla g 1Bla g 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Profilin         LTP         Pectate lyase         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins <tr< td=""><td>Image: state s</td><td></td><td>Important Allergens         Sale 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Dig m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 &amp; Ara h 1 and Gly m 6 &amp; Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19. Omega-5 gliadin (Wheat)         • IgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.         Alt a 1 (Alternaria)         • Alt a 1, the major allergen in alternaria is associated with asthma development.</td></tr<>	Image: state s		Important Allergens         Sale 1, Ovomucoid (egg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Dig m 4, 5 and 6 (soy)         • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19. Omega-5 gliadin (Wheat)         • IgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs- induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.         Alt a 1 (Alternaria)         • Alt a 1, the major allergen in alternaria is associated with asthma development.
New       n       r         New       r	Olive Olive Olive Plane Plane Plane Plane Ragweed Mugwort Mugwort Goosefoot Mercury Wall pellitory Plantain Saltwort Dog Dog Dog Dog Dog Dog Dog Dog Dog Dog	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla 1 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 2Asp f 3Asp f 4Asp f 6Asp f 6Asp f 7Der p 1Der p 1Der p 10Lep d 2Bla g 1Bla g 1Bla g 2Pla g 1	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Lipocalin         Lipocalin	Image: state s		Gal d 1. Ovomucoid (eqg white)         • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated. <b>Ara h 1, 2, 3, 6, 8 and 9 (peanut)</b> • IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated. <b>Ara h 1, 2, 3, 6, 8 and 9 (peanut)</b> • IgE abs to Ara h 1, 2, 3, 6 and 9 (LTP) are associated with systemic peanut reaction in addition to OAS.         • IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation. <b>Gly m 4, 5 and 6 (soy)</b> • Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • IgE abs to Gly m 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks. <b>Tri a 19. Omega-5 gliadin</b> (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs-induced reactions in connection with wheat ingestion.         • IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat. <b>Alt a 1 (Alternaria)</b> • Alt a 1, the major allergen in alternaria is associated with asthma development.
New       n       r         New       r	OliveOliveOlivePlanePlanePlanePlaneRagweedMugwortMugwortGoosefootMercuryWall pellitoryPlantainSaltwortDogDogDogDogDogDogSaltwortSaltwortAlternariaAlternariaAlternariaAlternariaAspergillusAspergillusAspergillusAspergillusAspergillusDermatophagoides <td< td=""><td>Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 2Asp f 3Asp f 4Asp f 6Asp o 21Cla h 8Blo t 5Der p 1Der p 2Der p 10Lep d 2Bla g 1Bla g 5Bla g 5Bla g 5</td><td>Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins</td><td>Image: state s</td><td></td><td>Gal d 1, Ovomucoid (eqg while)         • lgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • lgE abs to Ara h 1, 2, 3, 6 and 9 (peanut)         • lgE abs to Ara h 1, 2, 3, 6 and 9 (peanut)         • lgE abs to Ara h 8 (PR-10) are usually associated with systemic peanut reaction in addition to OAS.         • lgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (sov)         • Gly m 5 and 6 are associated with clinical reactions to soy. Cly m 5 &amp; Ara h 1 and Gly m 6 &amp; Ara h 3 share homologoue structures and may cross-react.         • JgE abs to Orun 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (Wheat)         • lgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs-induced reactions in connection with wheat ingestion.         • lgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.         Alt a 1 (Alternaria)         • Alt a 1, the major allergen in alternaria is associated with asthma development.</td></td<>	Ole e 1Ole e 7Ole e 9Pla a 1Pla a 2Pla a 3Amb a 1Art v 1Art v 1Art v 3Che a 1Mer a 1Par j 2Pla I 1Sal k 1Can f 1Can f 2Can f 3Can f 5Equ c 1Equ c 3Fel d 1Fel d 2Fel d 4Mus m 1Sus s PepsinAlt a 1Alt a 6Asp f 2Asp f 3Asp f 4Asp f 6Asp o 21Cla h 8Blo t 5Der p 1Der p 2Der p 10Lep d 2Bla g 1Bla g 5Bla g 5Bla g 5	Irypsin inhibitor         LTP         Glucanase         Invertase Inhibitor         Polygalacturonases         LTP         Pectate lyase         Defensin         LTP         Trypsin Inhibitor         Profilin         LTP         Pectate lyase         Lipocalin         Lipocalin         Serum Albumin         Lipocalin         Lipocalin         Serum Albumin         Acidic glycoprotein         Enolase         Mitogillin family         Fibrinogen Binding Proteins	Image: state s		Gal d 1, Ovomucoid (eqg while)         • lgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked is tolerated.         Ara h 1, 2, 3, 6, 8 and 9 (peanut)         • lgE abs to Ara h 1, 2, 3, 6 and 9 (peanut)         • lgE abs to Ara h 1, 2, 3, 6 and 9 (peanut)         • lgE abs to Ara h 8 (PR-10) are usually associated with systemic peanut reaction in addition to OAS.         • lgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, and often originating from birch sensitzation.         Gly m 4, 5 and 6 (sov)         • Gly m 5 and 6 are associated with clinical reactions to soy. Cly m 5 & Ara h 1 and Gly m 6 & Ara h 3 share homologoue structures and may cross-react.         • JgE abs to Orun 4 (PR-10) are usually associated with local symptoms such as OAS, originating from birch sensitzation. However, a few cases of severe allergic reactions to Gly m 4 have been reported to occur, e.g. during birch pollen season and often in combination with exercise and intake of low-processed soy drinks.         Tri a 19, Omega-5 gliadin (Wheat)         • lgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs-induced reactions in connection with wheat ingestion.         • lgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.         Alt a 1 (Alternaria)         • Alt a 1, the major allergen in alternaria is associated with asthma development.

THEBS	

			OTHERS																
Г	r r	Honey bee	Api m 1	Phospholipase A2	7														
	n	Honey bee	Api m 4	Melittin															
New	r r	Paper wasp	Pol d 5	Antigen 5															Primarily spec
	r	Common wasp	Ves v 1	Phospholipase A1															<b>J</b> 1
New	r r	Common wasp	Ves v 5	Antigen 5															
						++ 					, , , , , , , , , , , , , , , , , , ,			• •		· ·			
	r	Anisakis	Ani s 1	Serine protease inhibitor															
	r	Anisakis	Ani s 3	Tropomyosin															
Г	r r	Latex	Hey b 1	Rubber elongation factor	<b>–</b>														
-	r r	Latex	Hey b 3	Small rubber particle protein							•								
	r r	Latex	Hev b 5	Acidic protein	-						•								
	r r	Latex	Hev b 6.01	Prohevein															
	r	Latex	Hev b 6.02	Hevein															
	r r	Latex	Hev b 8	Profilin															
	r	Latex	Hev b 9	Glycolytic Enzyme															
	r	Latex	Hev b 11	Chitinases															
Now	n n	Bromelain	MIIXE3	CCD_markor															
New	n n	Diometain		Bromelin	4 🛏														
	11	Ттеарріе		Bromenn															
	SAC mmunoCAP	SOURCE	COMPONENT	PROTEIN FAMILY OR FUNCTION	-ruits	Vegetables Muts and seeds	-egumes	Cereals Spices	Grass pollen	Free pollen Veed pollen	-atex Milk	Meat	Fish Egg	Seafood	Animals Moulds	Mites	nsects /enoms	Darasites	

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