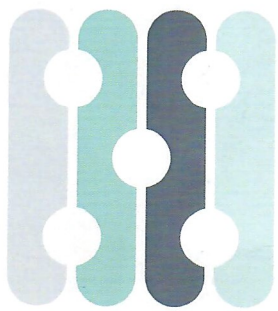


Welcome to the era of  
**MOLECULAR ALLERGY** for animals!



# PAX

pet allergy xplorer



First quantitative microarray  
IgE test specifically designed  
for animals

Over 200 allergen extracts  
and molecular components

Better identification of allergen  
cross-reactivities

Fully automated process, higher  
level of standardisation

With CCD blocking and  
2 blocking efficiency  
detectors





# Molecular Allergology: The future of IgE sensitisation detection



Molecular allergology is a state-of-the-art approach to the detection of sensitisations, whereby defined single allergen components are used for the determination of specific IgE in place of traditionally-used allergen extracts. The molecular components are recombinant proteins that provide a higher level of standardisation than allergen extracts and enable a more precise identification of IgE sensitisations. Molecular allergology tests are powerful tools that help pinpoint allergy triggers, thus facilitating risk assessment and therapy decisions.

Nextmune is bringing you the first molecular allergology platform for animals, the next-generation in allergen-specific IgE serology.



## Molecular Allergology: Proven advantages

- Increase in serological test sensitivity and specificity
- Identification of "primary" sensitising allergens
- Identification of allergen cross-reactivities
- Selection of relevant allergens for allergen immunotherapy

## Molecular Allergology: The era of individual components

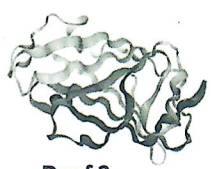
	Common name	Scientific name	Extracts & Components
Grass Pollens	Bermuda grass	<i>Cynodon dactylon</i>	Cyn d * rCyn d 1
	Orchard grass	<i>Dactylis glomerata</i>	Dac g *
	Meadow fescue	<i>Festuca pratensis</i>	Fes p *
	Perennial ryegrass	<i>Lolium perenne</i>	rLol p 1
	Timothy	<i>Phleum pratense</i>	rPhl p 1
			rPhl p 2
			rPhl p 5.0101
rPhl p 6			
Kentucky blue grass	<i>Poa pratensis</i>	rPhl p 7	
		rPhl p 12	
Ryegrass, cultivated	<i>Secale cereale</i>	Sec c_pollen *	
Tree Pollens	Alder	<i>Alnus glutinosa</i>	Aln g *
			rAln g 1
			rAln g 4
	Silver birch	<i>Betula verrucosa</i>	Bet v *
			rBet v 1
rBet v 2			
Hazel	<i>Corylus avellana</i>	rBet v 6	
		Cor a_pollen *	
		rCor a 1.0103	
Tree Pollens	Cypress	<i>Cupressus sempervirens</i>	Cup s *
	Beech	<i>Fagus sylvatica</i>	rFag s 1
	Ash	<i>Fraxinus excelsior</i>	Fra e *
			rFra e 1
	Privet	<i>Ligustrum vulgare</i>	Lig v *
	Olive tree	<i>Olea Europaea</i>	Ole e *
			nOle e 1
			rOle e 7
	London plane tree	<i>Platanus acerifolia</i>	rOle e 9
			rPla a 1
Cottonwood	<i>Populus nigra</i>	nPla a 2	
		rPla a 3	
Elm	<i>Ulmus campestris</i>	Pop n *	
Ulm c *			
Weed Pollens	Ragweed	<i>Ambrosia artemisiifolia</i>	Amb a *
			rAmb a 1
			rAmb a 4
	Mugwort	<i>Artemisia vulgaris</i>	Art v *
			rArt v 1.0101
		rArt v 3.0201	
Lamb's quarter	<i>Chenopodium album</i>	Che a *	
		rChe a 1	
Weed Pollens	Wall pellitory	<i>Parietaria judaica</i>	Par j *
	Ribwort / Plantain	<i>Plantago lanceolata</i>	rPar j 2
			Pla l *
	Dock/Sorrel	<i>Rumex crispus / acetosella</i>	rPla l 1
			Rum c / * Rum a
	Russian thistle	<i>Salsola kali</i>	Sal k *
Nettle	<i>Urtica dioica</i>	rSal k 1	
Urt d *			
Danders & Epithelia	Cattle	<i>Bos domesticus</i>	rBos d 2
	Dog	<i>Canis familiaris</i>	rCan f 1
			rCan f 2
			nCan f 3
			rCan f 4
			rCan f 6
	Guinea pig	<i>Cavia porcellus</i>	Can f_maleurine (including Can f 5) *
			rCan f Fel d 1 like
	Horse	<i>Equus caballus</i>	rCav p 1
			rEqu c 1
		nEqu c 3	
		rEqu c 4	

\* Extract





Allergen extract



Der f 2  
NPC2 family



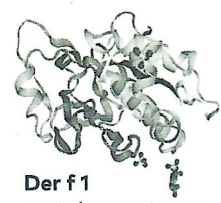
Der f 3  
trypsin



Der f 10  
tropomyosin



Der f 15  
chitinase



Der f 1  
cysteine protease

Common name	Scientific name	Extracts & Components
<b>Danders &amp; Epithelia</b>	Cat <i>Felis domesticus</i>	rFel d 1
		nFel d 2
		rFel d 4
		rFel d 7
Mouse <i>Mus musculus</i>	rMus m 1	
Rabbit <i>Oryctolagus cuniculus</i>	rOry c 1	
	rOry c 2	
	rOry c 3	
Acarus siro <i>Acarus siro</i>	Aca s *	
German cockroach <i>Blattella germanica</i>	rBla g 1	
	rBla g 2	
	rBla g 4	
	rBla g 5	
Cat flea <i>Ctenocephalides felis</i>	rBla g 9	
	Cte f 1	
Dermatophagoides farinae <i>Dermatophagoides farinae</i>	Der f *	
	rDer f 1	
	rDer f 2	
	rDer f 15	
Dermatophagoides pteronyssinus <i>Dermatophagoides pteronyssinus</i>	rDer f 18	
	Der p *	
	rDer p 1	
	rDer p 2	
Dermatophagoides pteronyssinus <i>Dermatophagoides pteronyssinus</i>	rDer p 5	
	rDer p 7	
	rDer p 10	
	rDer p 11	
Glycyphagus domesticus <i>Glycyphagus domesticus</i>	rDer p 20	
	rDer p 21	
	rDer p 23	
	rGly d 2	
Lepidoglyphus destructor <i>Lepidoglyphus destructor</i>	Lep d *	
	rLep d 2	
Tyrophagus putrescentiae <i>Tyrophagus putrescentiae</i>	Tyr p *	
	rTyr p 2	
<b>Moulds &amp; Yeasts</b>	Alternaria alternata <i>Alternaria alternata</i>	Alt a *
		rAlt a 1
		rAlt a 6
	Aspergillus fumigatus <i>Aspergillus fumigatus</i>	Asp f *
		rAsp f 1
		rAsp f 3
		rAsp f 4
	Cladosporium herbarum <i>Cladosporium herbarum</i>	rAsp f 6
		Cla h *
		rCla h 8
	Malassezia pachydermatis <i>Malassezia pachydermatis</i>	Mala p *
		rMala s 1
Malassezia sympodialis <i>Malassezia sympodialis</i>	rMala s 9	
	rMala s 5	
	rMala s 6	
	rMala s 11	

Common name	Scientific name	Extracts & Components
<b>Insect Venoms</b>	Honey bee venom <i>Apis mellifera</i>	Api m *
		nApi m 1
		nApi m 2
		Api m 3
		Api m 5
	rApi m 10	
Long-headed wasp venom <i>Dolichovespula spp.</i>	Dol spp *	
Paper wasp venom <i>Polistes dominulus</i>	Pol d *	
Fire ant venom <i>Solenopsis richteri &amp; Solenopsis invicta</i>	rPol d 5	
	Sol spp *	
Common wasp venom <i>Vespula vulgaris</i>	Ves v *	
	rVes v 1	
	rVes v 5	
Oat <i>Avena sativa</i>	Ave s *	
Buckwheat <i>Fagopyrum esculentum</i>	Fag e *	
Sunflower seed <i>Helianthus annuus</i>	nFag e 2	
	Hel a *	
Barley <i>Hordeum vulgare</i>	Hor v *	
Rice <i>Oryza sativa</i>	Ory s	
Millet <i>Panicum miliaceum</i>	Ory s_GLUB1	
	Pan m *	
Rye, cultivated <i>Secale cereale</i>	Sec c_flour *	
Wheat <i>Triticum aestivum</i>	Tri a *	
	rTri a 14	
	rTri a 19	
	nTri a aA_TI	
Corn, cereal <i>Zea mays</i>	Zea m *	
	rZea m 14	
Apple <i>Malus domestica</i>	Zea m_GBSSI	
	rMal d 1	
Peanut <i>Arachis hypogaea</i>	nMal d 2	
	rMal d 3	
Soy <i>Glycine max</i>	nAra h 1	
	rAra h 2	
	nAra h 3	
	rAra h 5	
Lentil <i>Lens culinaris</i>	rAra h 6	
	rAra h 8	
	rAra h 9	
	rAra h 15	
Pea <i>Pisum sativum</i>	Gly m *	
	nGly m 4	
	rGly m 5	
	nGly m 8	
Foods	Len c *	
	Len c 1	
	Len c 2	
	Len c 3	
Peanut <i>Arachis hypogaea</i>	Pis s *	
	Pis s 1	
	Pis s 2	
	Pis s 3	

Common name	Scientific name	Extracts & Components
Cow's milk <i>Bos domesticus</i>	<i>Bos domesticus</i>	Bos d_milk *
		nBos d 4
		nBos d 5
		nBos d 8
Egg white <i>Gallus domesticus</i>	<i>Gallus domesticus</i>	Gal d_white *
		nGal d 1
		nGal d 2
		nGal d 3
Egg yolk <i>Gallus domesticus</i>	<i>Gallus domesticus</i>	nGal d 4
		Gal d_yolk *
Beef <i>Bos domesticus</i>	<i>Bos domesticus</i>	nGal d 5
		Bos d_meat *
Horse <i>Equus caballus</i>	<i>Bos domesticus</i>	nBos d 6
		Bos d 7
		Bos d_ACTA1
		Bos d_LDHA
Rabbit <i>Oryctolagus spp.</i>	<i>Equus caballus</i>	Equ c_meat *
		Ory c_meat *
Lamb <i>Ovis aries</i>	<i>Oryctolagus spp.</i>	Ory c_CKM
		Ory c_GAPDH
		Ory c_PGM1
		Ory c_PKM
Pig <i>Sus domesticus</i>	<i>Ovis aries</i>	Ory c_TPI1
		Ovi a_meat *
Chicken <i>Gallus domesticus</i>	<i>Sus domesticus</i>	Ovi a_IgG
		Sus d_meat *
Turkey <i>Meleagris gallopavo</i>	<i>Gallus domesticus</i>	rSus d 1
		Gal d_meat *
Mealworm <i>Tenebrio molitor</i>	<i>Meleagris gallopavo</i>	Gal d 7
		Gal d 9
Herring, Atlantic <i>Clupea harengus</i>	<i>Tenebrio molitor</i>	Gal d_PKM
		Mel g *
Cod, Atlantic <i>Gadus morhua</i>	<i>Clupea harengus</i>	Ten m *
		Clu h *
		rClu h 1
		Gad m *
Salmon, Atlantic <i>Salmo salar</i>	<i>Gadus morhua</i>	nGad m 1
		Gad m 2+3
		Gad m 4
		Sal s *
Mackerel, Atlantic <i>Scomber scombrus</i>	<i>Salmo salar</i>	Sal s 1
		Sal s 2
		Sal s 3
		Sal s 4
Tuna <i>Thunnus albacares</i>	<i>Scomber scombrus</i>	Sal s 6
		Sal s 7
Carrot <i>Daucus carota</i>	<i>Thunnus albacares</i>	Sal s 8
		Sco s *
Tomato <i>Solanum lycopersicum</i>	<i>Scomber scombrus</i>	rSco s 1
		Thu a *
Potato <i>Solanum tuberosum</i>	<i>Thunnus albacares</i>	Thu a 1
		Dau c *
Pea <i>Pisum sativum</i>	<i>Solanum lycopersicum</i>	rDau c 1
		Sola l *
Pea <i>Pisum sativum</i>	<i>Solanum tuberosum</i>	rSola l 6
		Sol t *
		Sol t 2
		Sol t_GBSSI

\* Extract