

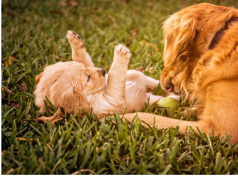





R&D program of Desentum

Allergen	Hypoallergen	Status
 <p>Birch <i>(Betula)</i></p>	<p>Genetically modified Bet v 1 protein, which is showing considerably decreased histamine release in specific histamine release assays (HRA testing) when compared to wild type Bet v 1.</p>	<p>We have tested Bet v 1 hypoallergen candidate in non-clinical studies for safety and efficacy. We have shown that Bet v 1 hypoallergen decreases the IgE content and increases the protective IgG content in tested animals. Production of Bet v 1 for the first clinical trials is ongoing.</p>
 <p>Timothy <i>(Phleum)</i></p>	<p>Genetically modified Phl p 1 protein, which is showing considerably decreased histamine release in specific histamine release assays.</p>	<p>We have produced several hypoallergen variants of Phl p 1 and tested them in HRA assays. We are currently selecting the hypoallergen to be produced for non-clinical studies.</p>
 <p>Dog <i>(Canis)</i></p>	<p>Genetically modified Can f 1, 2, 3, 4, 5 and 6 proteins, which are showing considerably decreased histamine release in specific histamine release assays.</p>	<p>We have successfully solved the 3-D structure of Can f 1, on which the design of Desentum's hypoallergen variants is based. We are producing hypoallergen candidates and performing HRA analysis.</p>
 <p>Horse <i>(Equus)</i></p>	<p>Genetically modified Equ c 1 protein, which is showing considerably decreased histamine release in specific histamine release assays.</p>	<p>We have produced several hypoallergen variants of Equ c 1 and are testing them in HRA assays. Selection of the hypoallergen to be produced for non-clinical studies is taking place.</p>
 <p>Cat <i>(Felis)</i></p>	<p>Genetically modified Fel d 1 protein, which is showing considerably decreased histamine release in specific histamine release assays.</p>	<p>Structure and production of Fel d 1 is being determined and design of hypoallergen variants is taking place.</p>
 <p>Mugwort <i>(Artemisia)</i></p>	<p>Genetically modified Art v 1 protein, which is showing considerably decreased histamine release in specific histamine release assays.</p>	<p>Structure and production of Art v 1 is being determined and design of hypoallergen variants is taking place.</p>