

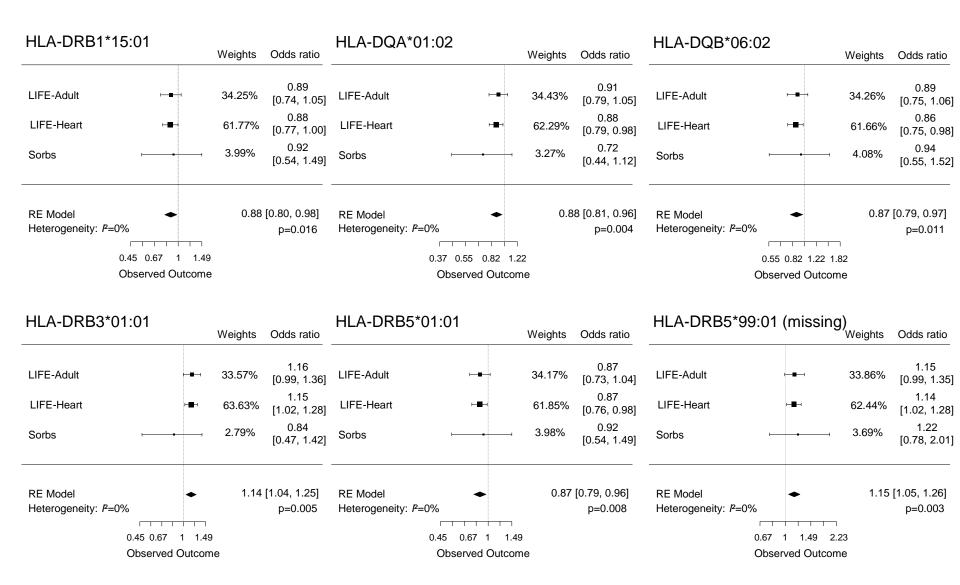
<u>cohort</u>

- LIFE-Adult
- ▲ LIFE-Heart
- \* Sorbs

## trait

- diabetic state
- fasting plasma glucose
- HbA1c
- HOMA-IR
- Stumvoll index

**Figure 3**: Significance plot for associations between HLA genotype and diabetes and related traits HbA1c: hemoglobin A1c; HOMA-IR: Homeostasis Modell Assessment of Insulin Resistance



**Figure 4**: Meta-analysis of the HLA genes with type 2 diabetes RE: random effects model

							Weights	
Study	TE	seTE	:		OR	95%-CI	fixed	random
LIFE Adult LIFE Heart Sorbs	-0.14 -0.14 -0.06	0.09 0.07 0.27 —	-		0.87 0.87 0.94	[0.72, 1.05] [0.76, 0.99] [0.55, 1.60]	32.8% 63.4% 3.9%	32.8% 63.4% 3.9%
Fixed effect model Random effects model Heterogeneity: <i>P</i> =0%		0.75 1	1.5	0.87 0.87	[0.79, 0.97] [0.79, 0.97]		p=0.01	
			Observed Outo	ome				

Figure 5: Meta-analysis of the DRB1\*15:01~DQA1\*01:02~DQB1\*06:01 haplotype with type 2 diabetes