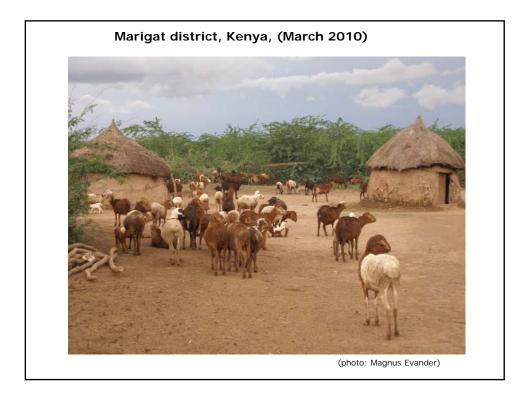


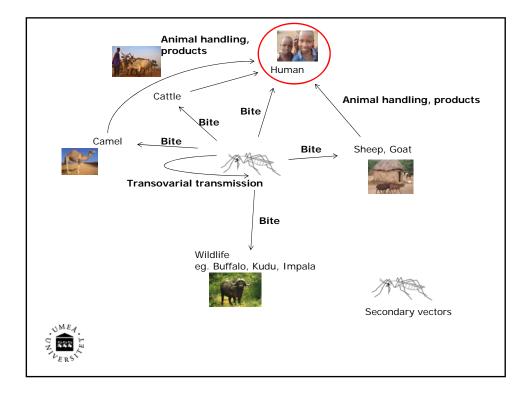
Death Rate 100%	Severe Illness Abortion Death	Severe Illness Virus in Blood Abortion	Infection Virus in Blood	Do Not Become Infected
Lambs	Sheep	Monkeys	Horses	Rodents
Calves	Cattle	Camels	Cats	Rabbits
Kids	Goats	Rats	Dogs	Birds
Puppies	Humans	Squirrels	Monkeys	
Kittens				
Some rodents				

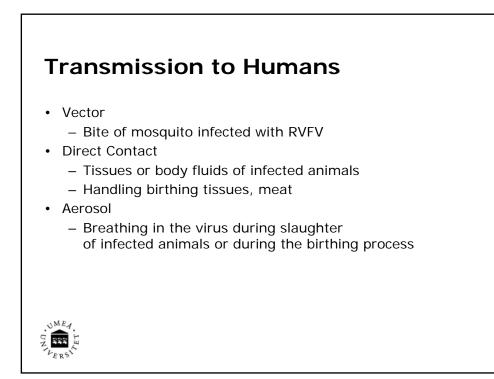


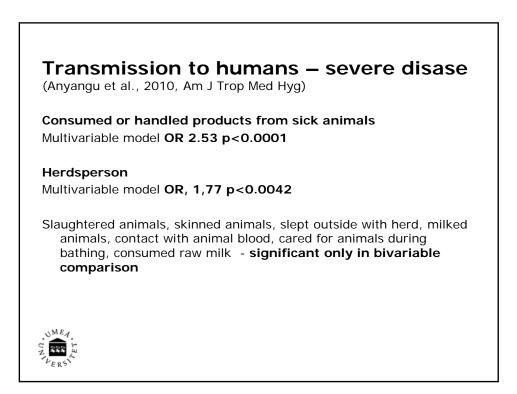
Transmission to domestic animals and wildlife

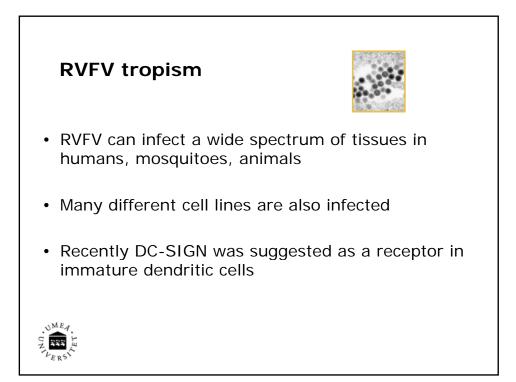
- Mosquitoes
- Congenital?
- Milk?
- Other contacts?

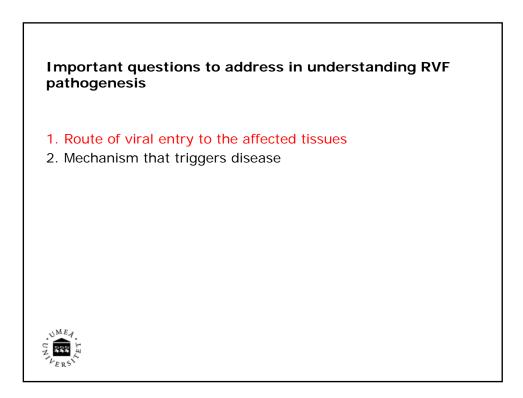


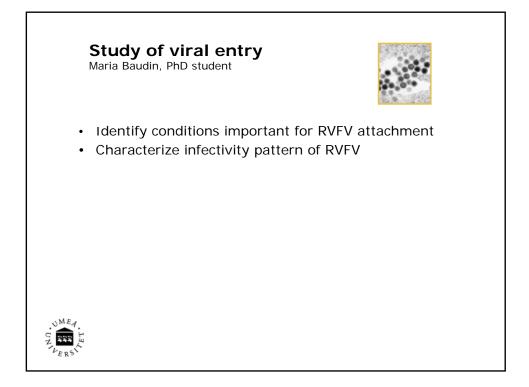


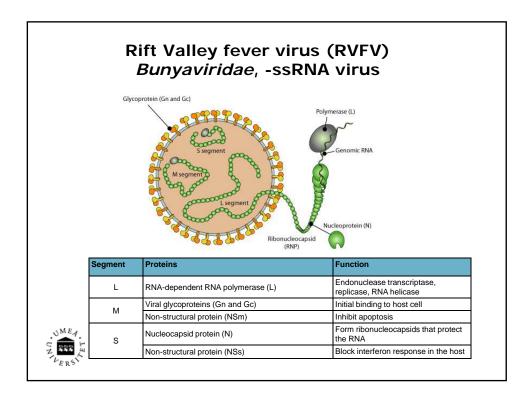


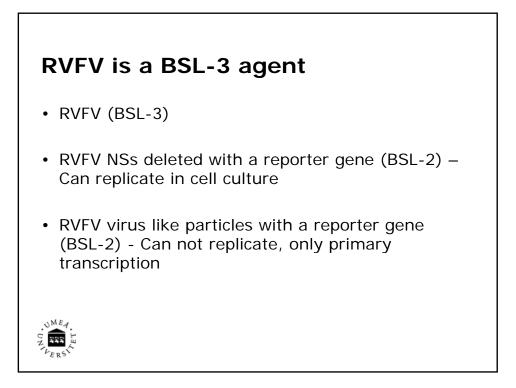


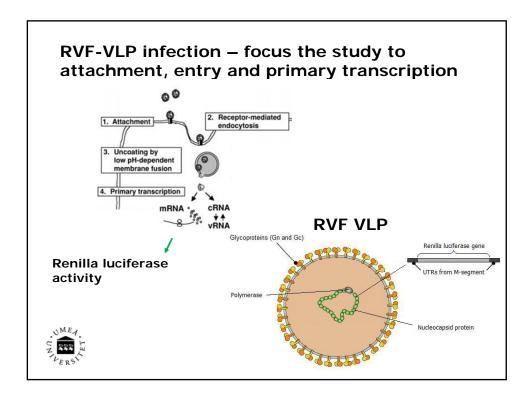


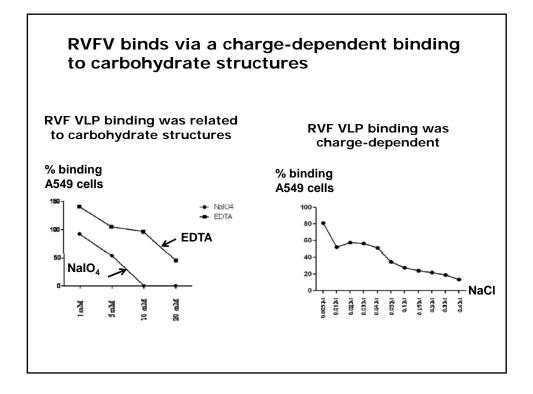


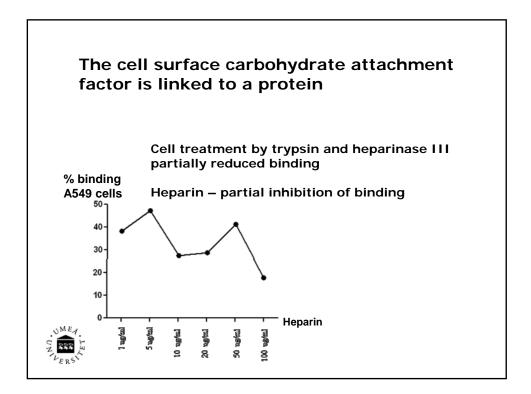


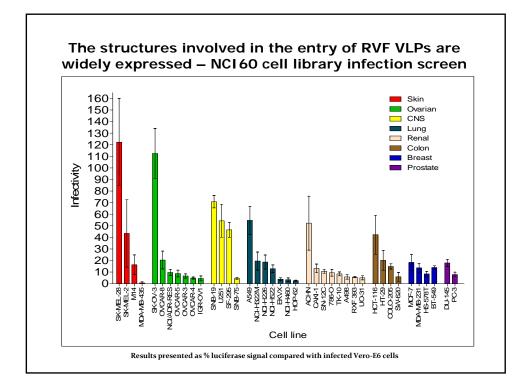




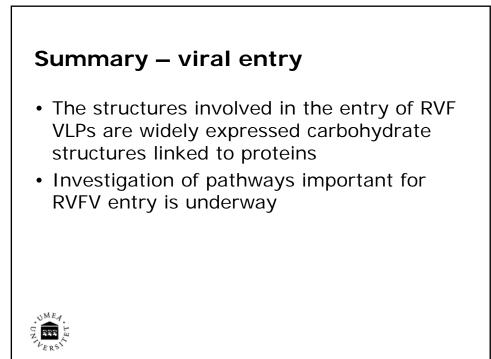


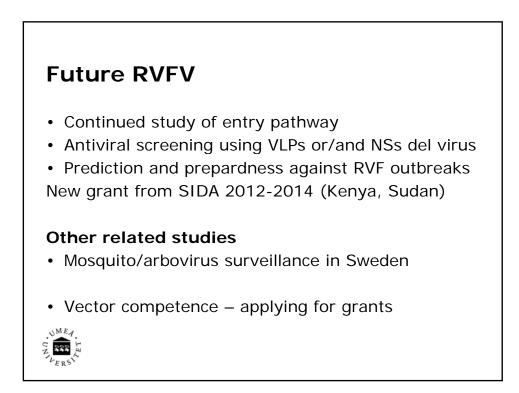


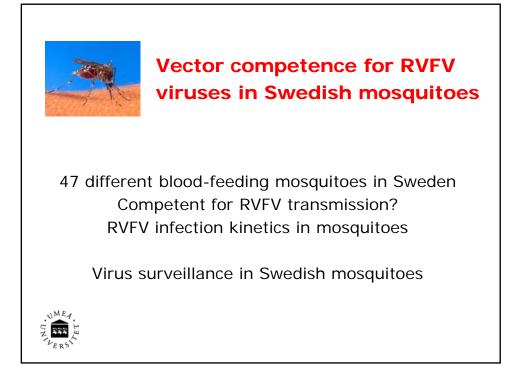


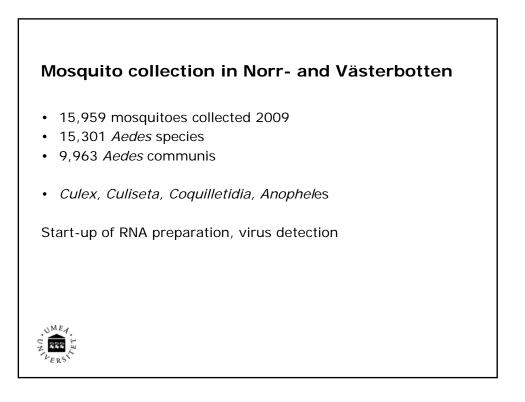


Sele	cted gei	nes p	osi	tively	associated with RVF VLP er	ntry (microarray)
	ILKAP	0,64	41	6,89E-06	Integrin-linked kinase-associated serine/threonine phosphatase 2C	
	CCNA1	0,61	41	2,07E-05	Cyclin A1	
	GJA3	0,61	41	2,52E-05	Gap junction protein, alpha 3, 46kDa	possible membrane protein
	SORT1	0,6	41	3,30E-05	Sortilin 1	possible membrane protein
	PRDM7	0,6	41	3,71E-05	PR domain containing 7	
	SLC20A1	0,6	41	3,86E-05	Solute carrier family 20 (phosphate transporter), member 1	possible membrane protein
	PPP1R14C	0,6	41	3,95E-05	Protein phosphatase 1, regulatory (inhibitor) subunit 14C	possible membrane protein
	OCA2	0,59	41	4,17E-05	Oculocutaneous albinism II	possible membrane protein
	MFAP3L	0,59	41	4,52E-05	Microfibrillar-associated protein 3-like	possible membrane protein
	NT5DC1	0,59	41	4,72E-05	5'-nucleotidase domain containing 1	
	BIRC7	0,59	41	4,95E-05	Baculoviral IAP repeat-containing 7 (livin)	
	MAN1A2	0,59	41	5,39E-05	Mannosidase, alpha, class 1A, member 2	possible membrane protein
	C22orf9	0,59	41	5,84F-05	Chromosome 22 open reading frame 9	
	ZNF689	0,58	41	6,08E-05	Zinc finger protein 689	
	RHOQ	0,58	41	6,15E-05	Ras homolog gene family, member Q	possible membrane protein
	RGS1	0,58	41	7,54E-05	Regulator of G-protein signaling 1	possible membrane protein
	TDRD3	0,58	41	8,03E-05	Tudor domain containing 3	
	TMEM16D	0,58	41	8,37E-05	Transmembrane protein 16D	
	LOC285000	0,57	41	8,78E-05	Hypothetical protein LOC285000	









Prediction and prepardness against RVF outbreaks (in collaboration with Kenya, Sudan) SIDA 2012-2014

Aims

- Development of a risk-prediction model with high resolution
- Identification of factors that make specific geographic regions more prone to outbreaks.
- Identification of cultural and equality factors on appearance and consequences of outbreaks.
- Characterization of pastoralist mobility in a spatio-temporal framework.

Methods

Land-cover mapping and land-cover change analysis in relation to available geo-referenced health data using compiled climate and land-cover data Human, animal and mosquito samples will be collected

Host-vector associations, genetic typing of mosquitoes, RVFV

Spatio-temporal analysis - nomadic herds in selected regions in Kenya will be tracked for a year by the use of GPS collars and automatic weather stations



