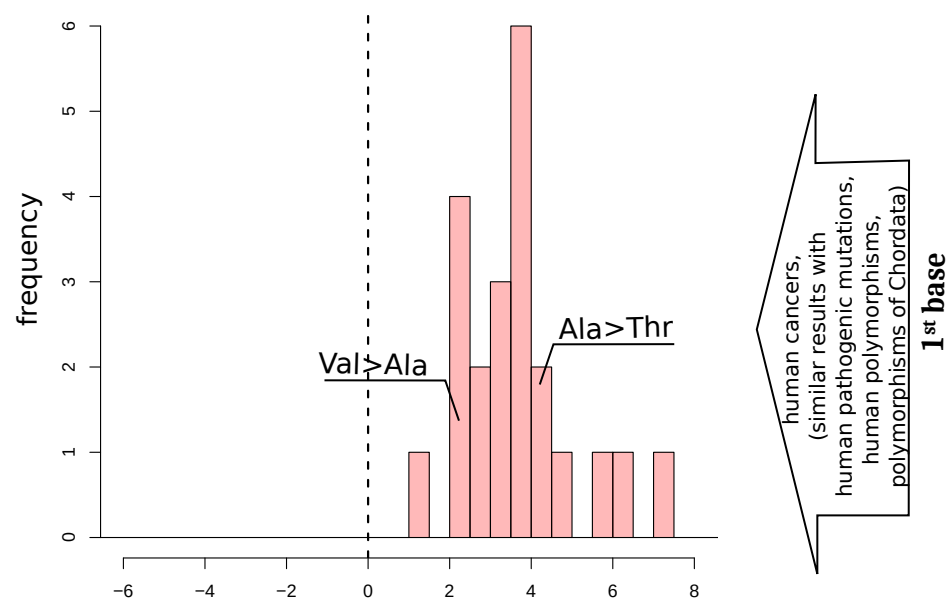


3528 nonsynonymous mutations in human cancers



	T_L	C_L	A_L	G_L
	A_H	G_H	T_H	C_H
Phe	TTT	TCT	TAT	TGT
	TTC	TCC	TAC	TGC
Leu	TTA	TCA	Stop	TGA
	TTG	TCG	Stop	TGG
	CTT	CCT	His	CGT
Leu	CTC	CCC	CAC	CGC
	CTA	CCA	CAA	CGA
	CTG	CCG	CAG	CGG
Ile	ATT	ACT	Asn	AAT
	ATC	ACC	AAC	AGC
Met	ATA	ACA	Lys	AAA
	ATG	ACG	AAG	AGG
	GTC	GCT	Asp	GAT
Val	GTA	GCC	GAC	GGT
	GTG	GCA	GAA	GGC
	GTT	GCG	GAG	GGA
				GGG

$\log_2(\text{rate from losers to gainers} / \text{rate from gainers to losers})$

comparative species data: from bacteria to Chordata
gainers are increasing and losers are decreasing

