Università Politecnica delle Marche
Facoltà di Scienze
Corso di Laurea in Scienze Biologiche

Tesi di Laurea Triennale

EFFETTI DEL VIRUS UMANO HERPES SU CASI DIAGNOSTICATI DI ALZHEIMER: UNO STUDIO STATISTICO MULTI-SCALA

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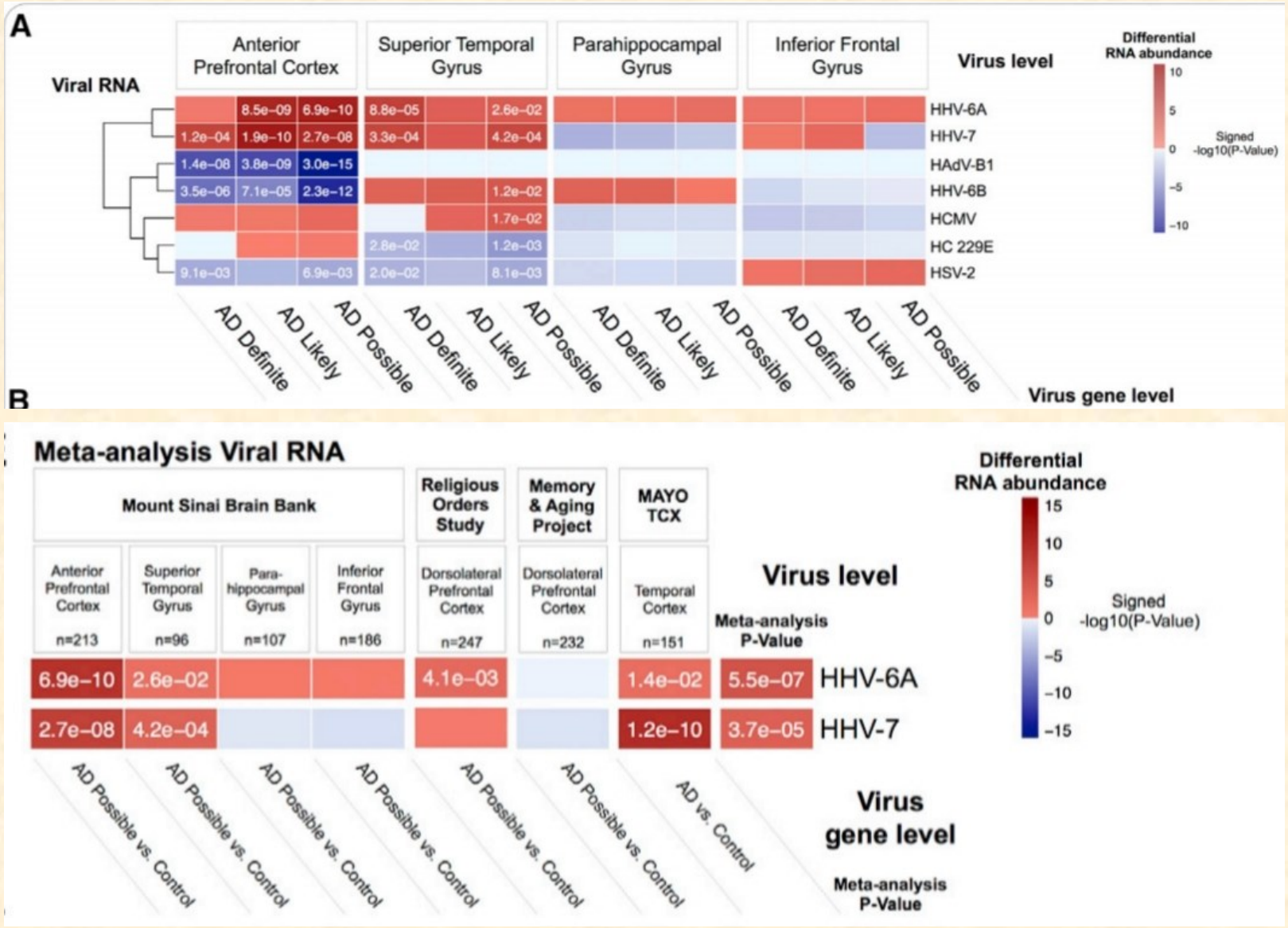
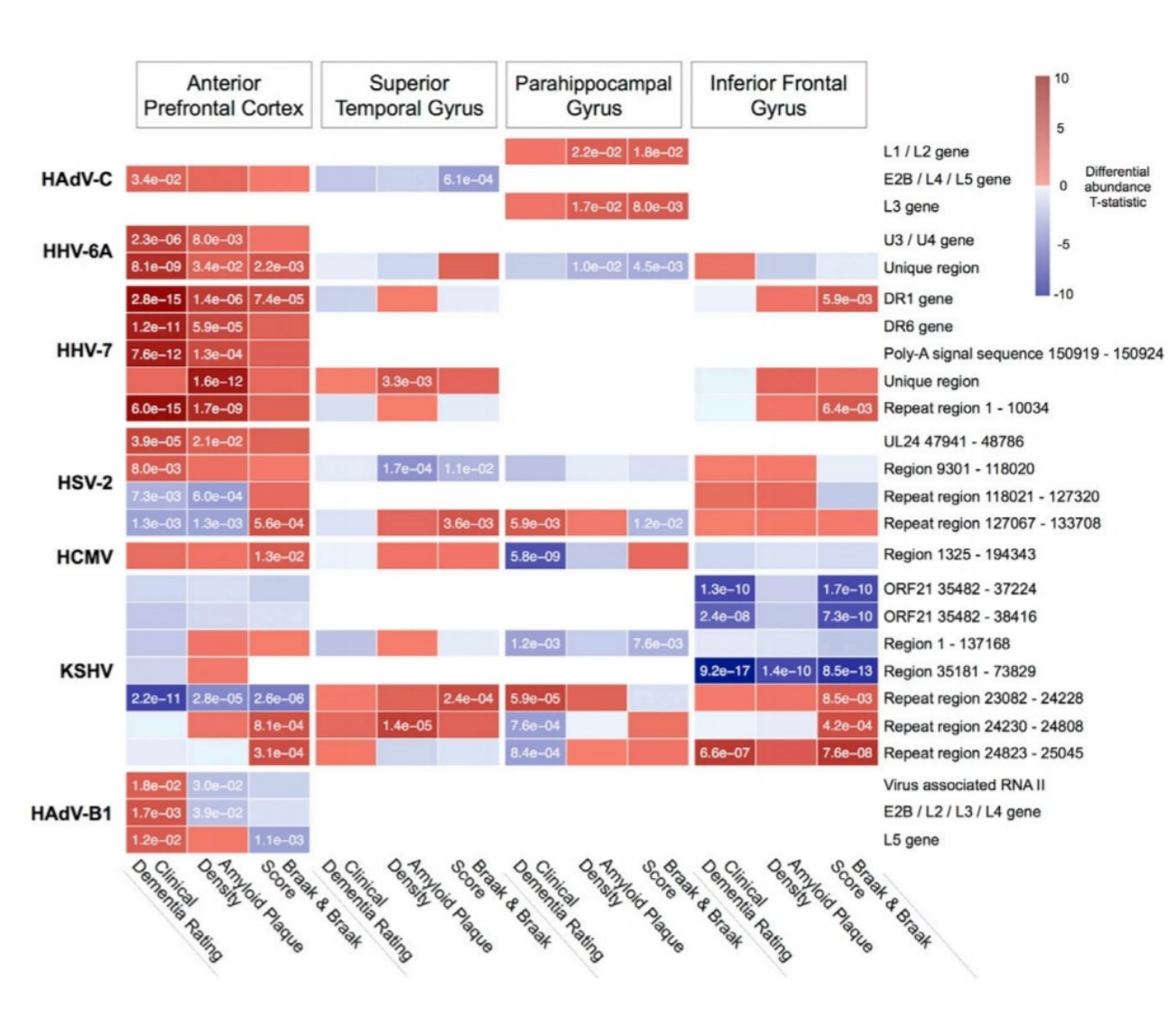
L'ALZHEIMER È UNA MALATTIA MULTIFATTORIALE.

…anche i microorganismi possono esserne responsabili?

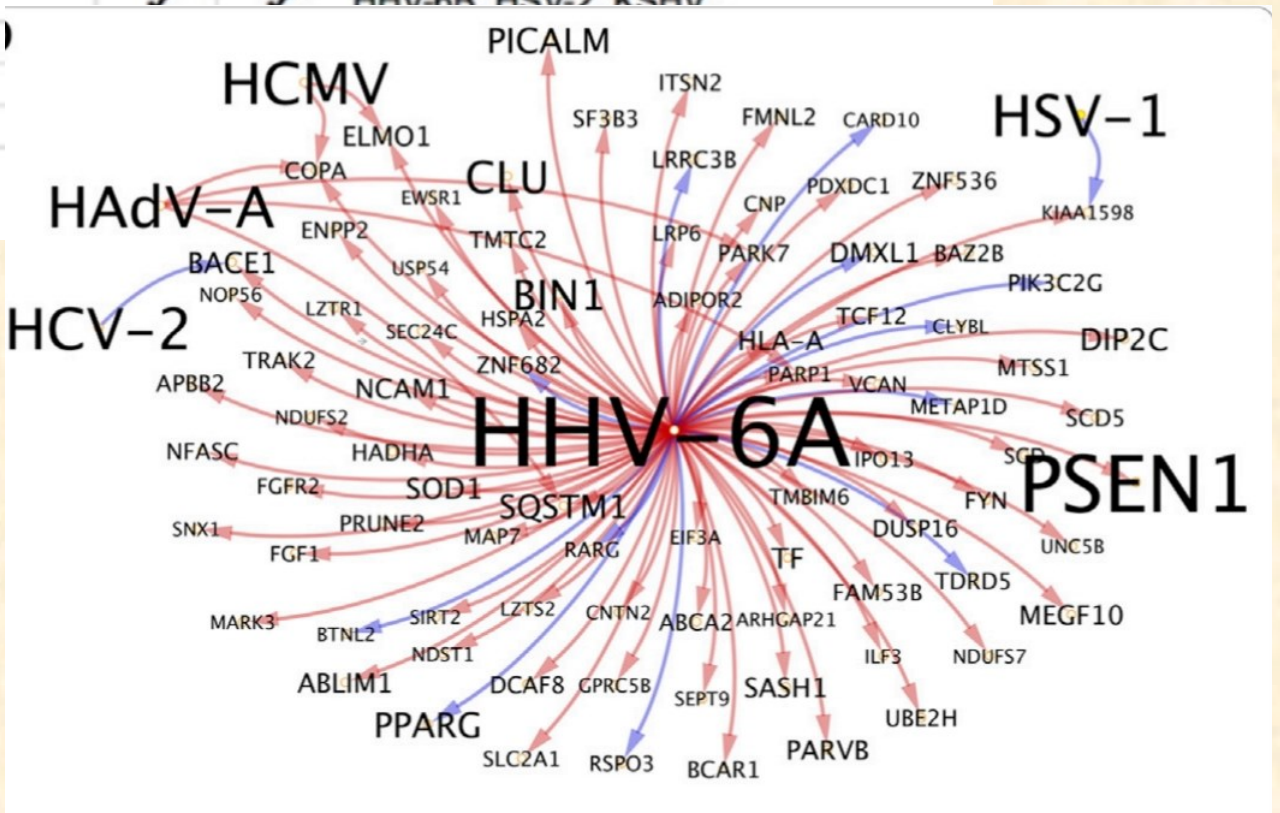
STUDI FATTI SU CAMPIONI **AD** E CONTROLLI SANI

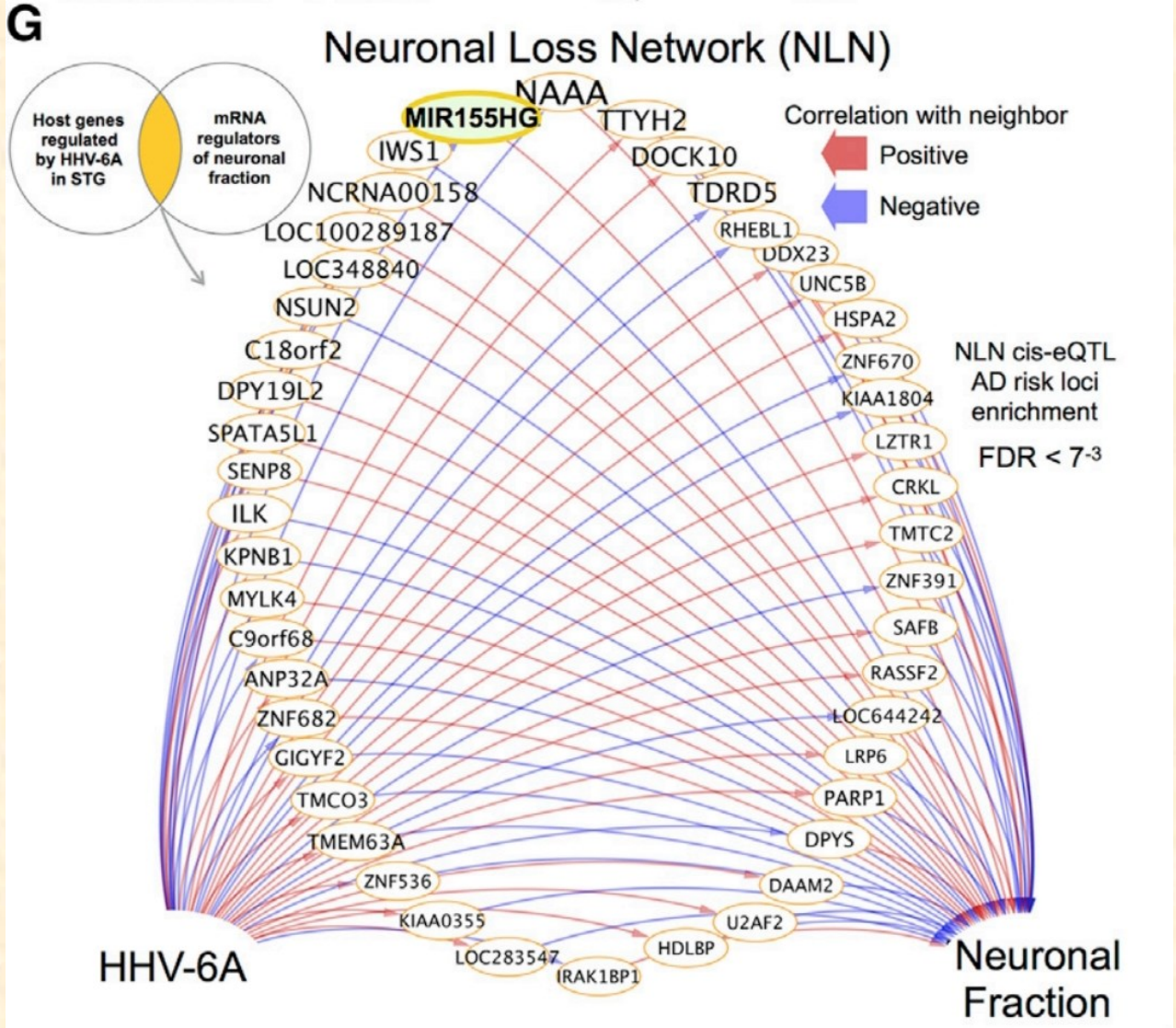




I geni virali sono associati a tratti AD

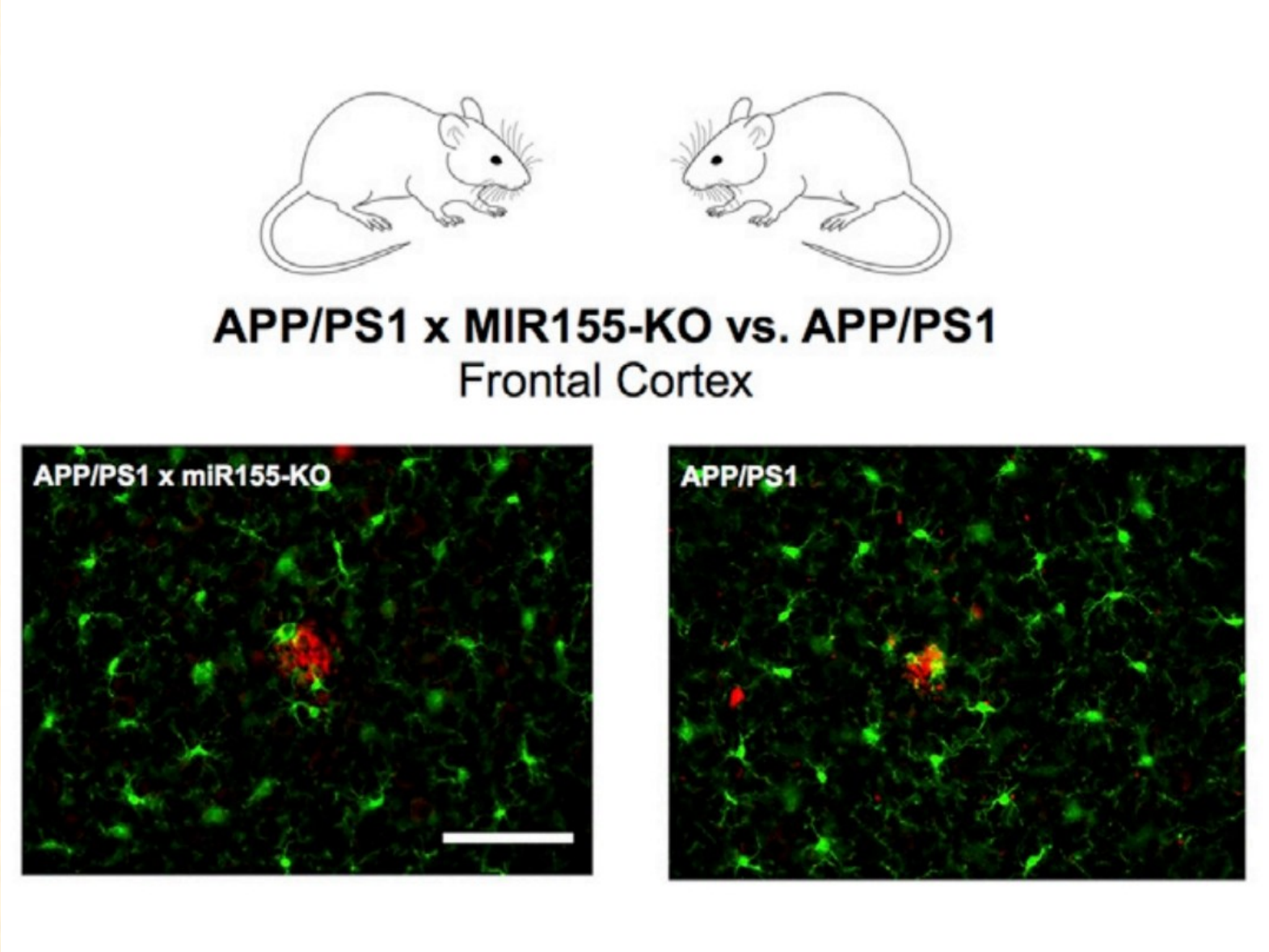
Symbol	Name	Region				Viruses
		APFC	STG	ERC	IFG	
PCYT1A	phosphate cytidylyltransferase 1, choline, alpha	✓	✓		✓	HAdV-A, HHV-6A, HSV-2, HCMV, KSHV
ABLIM1	actin binding LIM protein 1		✓	✓	✓	HHV-6A, HSV-2, HCMV
BACE1	beta-site APP-cleaving enzyme 1		✓		✓	HHV-6A, HCMV, HCV-2
CARS	cysteinyl-tRNA synthetase	✓	✓		✓	HAdV-A, HSV-2, KSHV
FYN	FYN proto-oncogene, Src family tyrosine kinase		✓	✓	✓	HHV-6A, HSV-2, HCMV
KAT8	K(lysine) acetyltransferase 8	✓			✓	HHV-6B, HCMV, Duv
MCAM	melanoma cell adhesion molecule		✓	✓	✓	Variola, HHV-6A, HCMV
MST1P9	Macrophage Stimulating 1 Like	✓	✓		✓	HHV-7, HSV-2, HCV-2
NLRC4	NLR family, CARD domain containing 4		✓	✓	✓	HHV-6A, HSV-2, HCMV
ONECUT2	one cut homeobox 2	✓	✓			HHV-6A, HSV-1, HCMV
PCDHGB3	protocadherin gamma subfamily B, 3	✓		✓	✓	HHV-6B, HSV-2, KSHV
PCGF6	polycomb group ring finger 6					
PPARG	peroxisome proliferator-activated receptor gamma					
SIAE	sialic acid acetylesterase					
SRSF6	serine/arginine-rich splicing factor 6					

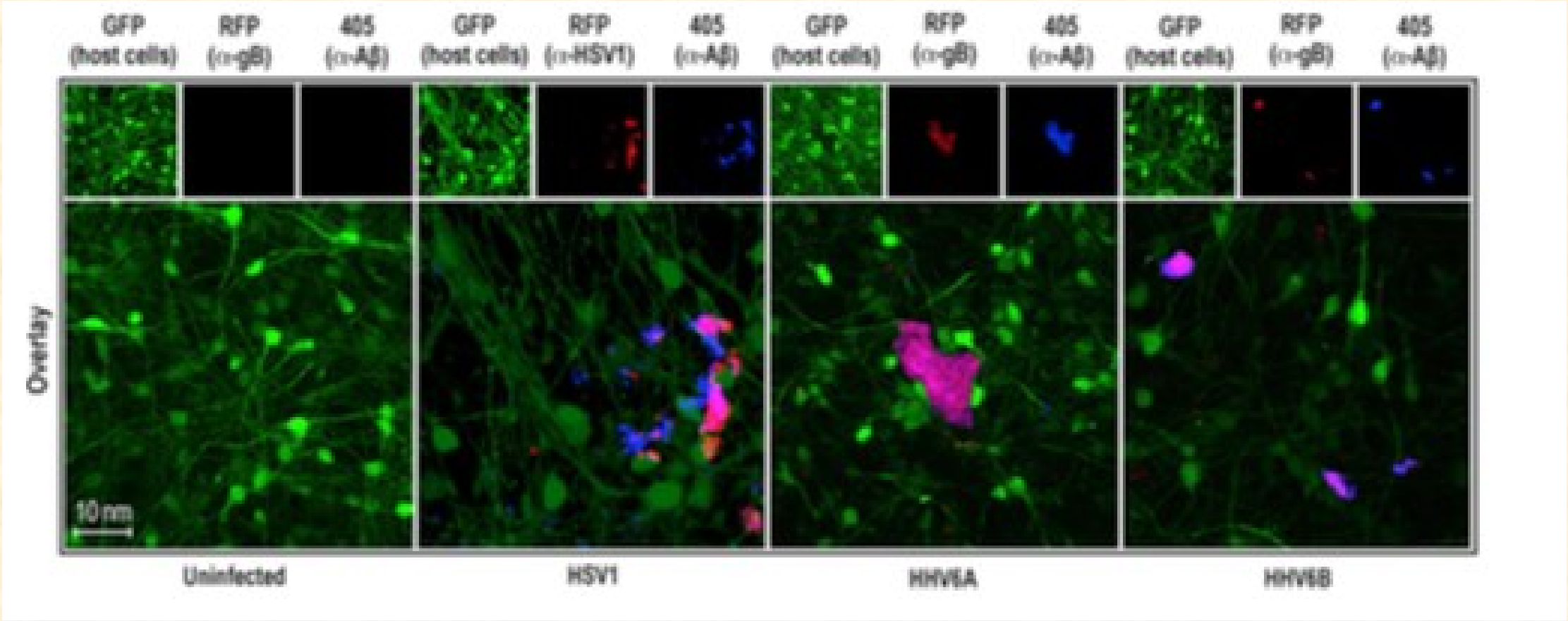




HHV6A ha effetto sulla rottura neuronale agisce in una rete biologica di geni, compromettendo soprattutto l'espressione del miR-155

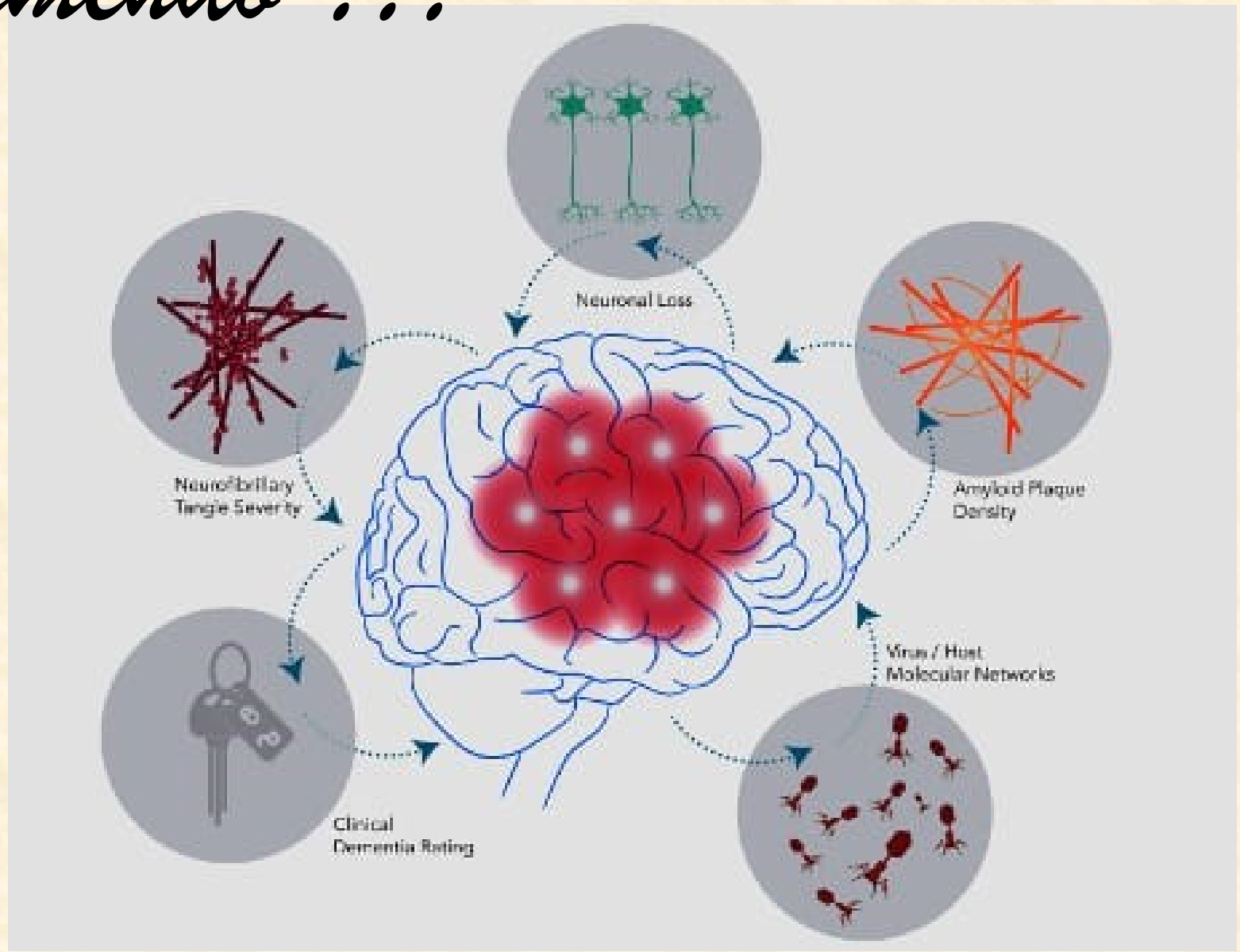
ESPERIMENTO FATTO SU TOPI MIR-155 KO





HHV6A scatena anche la risposta immunitaria provocando la produzione della proteina beta amiloide

Riassumendo ...



BIBLIOGRAFIA:

https://www.ncbi.nlm.nih.gov/pubmed/29937276