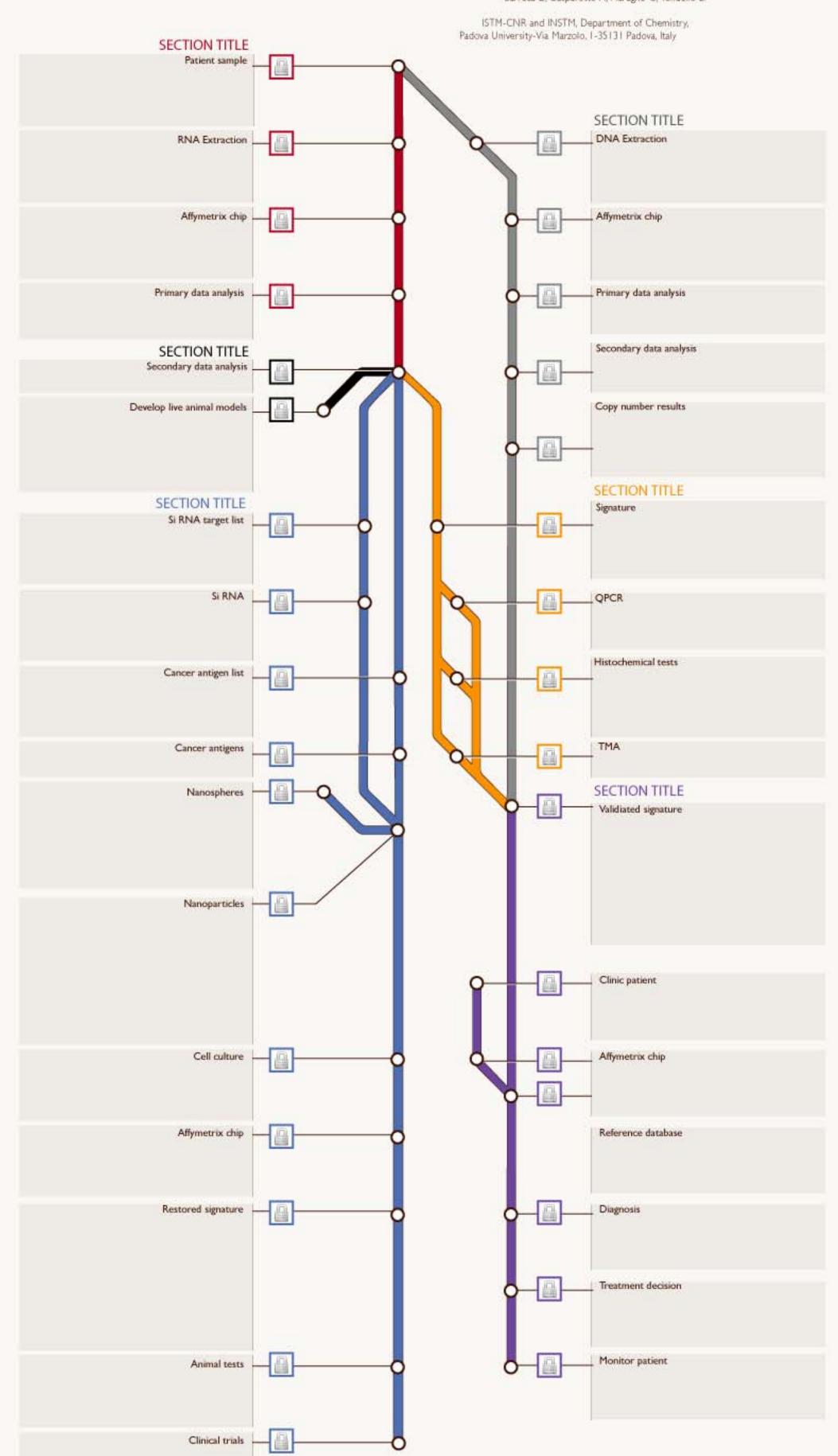


LOREM IPSUM DOLOR SIT AMET CONSECTETUER

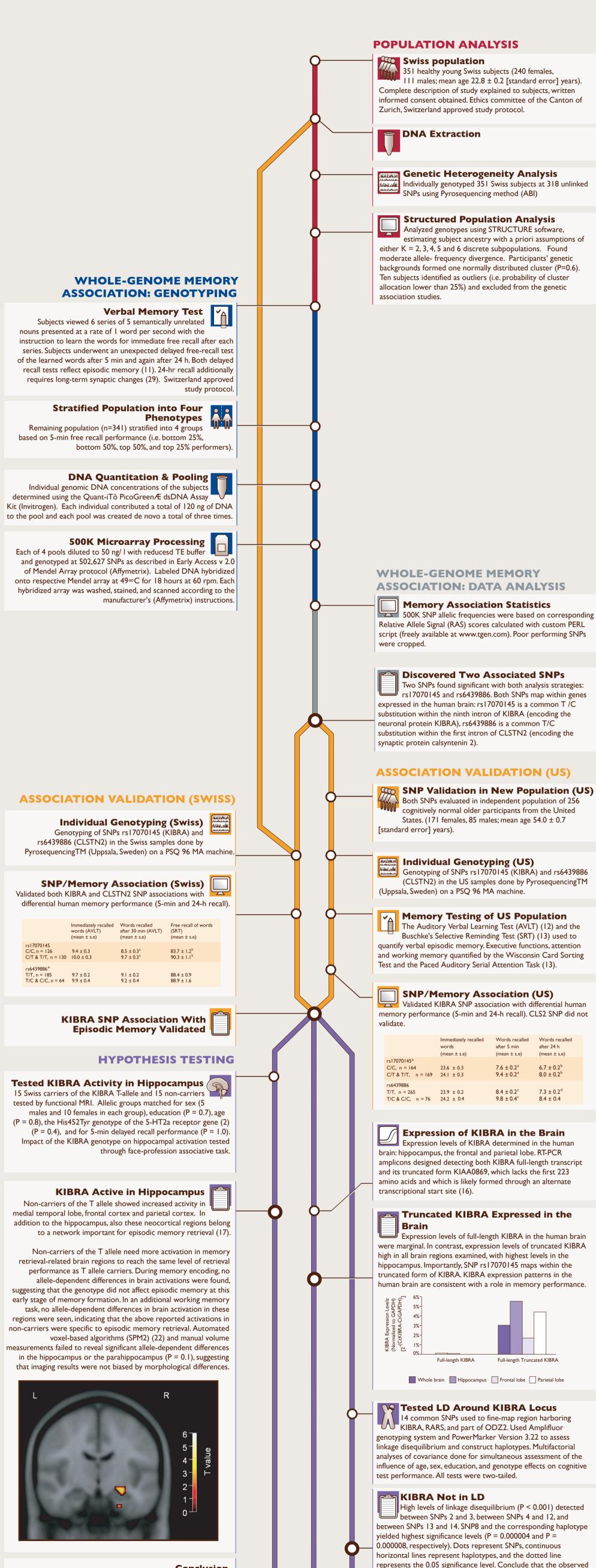
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Barreca D, Gasparotto A, Maragno C, Tondello E.



COMMON KIBRA ALLELES DETERMINE MEMORY PERFORMANCE IN HUMANS

Papassotiropoulos A, Stephan DA, Huentelman MJ, Frederic J, Hoerndli FA, Craig DW, Pearson JV, Huynh KD, Corneveaux J, Osborne D, Mondadori C Buchmann A, Reiman EM, Caselli RJ, Henke K, de Quervain DJF. Common KIBRA alleles determine memory performance in humans. Science. 2006 X;Y(Z):xxxx-xx.



Conclusion

association is unrelated to LD with adjacent genes.

107'662'000

Distance from pter [bases]

0.00001

0.0001

0.001 Significance

0.01

0.

167'562'000

7 10,11

167'862'000

167'762'000

By using a hypothesis-free, high-density whole genome scan, expression studies, and functional brain imaging, a novel memoryrelated gene was identified. KIBRA alleles were strongly associated with differential episodic memory performance in two distinct, healthy populations suggesting that its effect is independent of ethnicity, age, language, and episodic memory task used. Importantly, KIBRA was not associated with motivation, attention, executive functions and working memory performance, indicating that KIBRA is related specifically to episodic memory, which depends on the proper function of the hippocampus. Indeed, expression of KIBRA was high in the hippocampus. Moreover, fMRI revealed KIBRA allele-dependent differences in hippocampal activity during an episodic memory task.