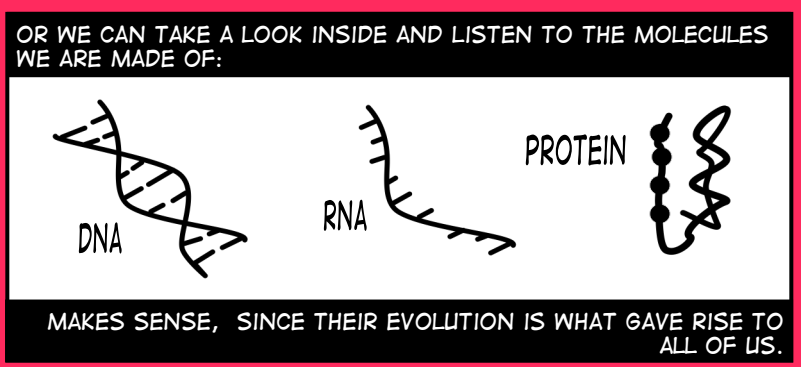
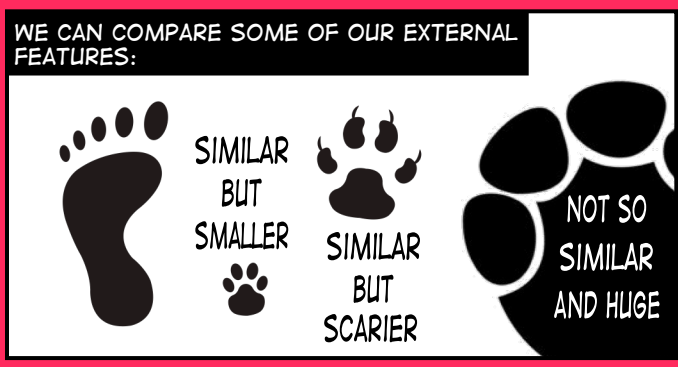
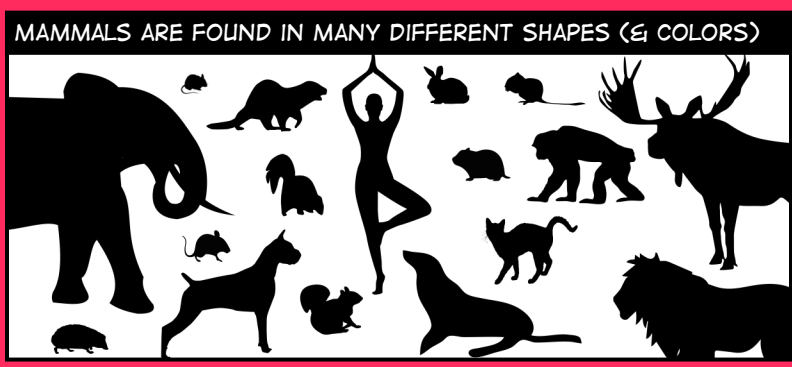
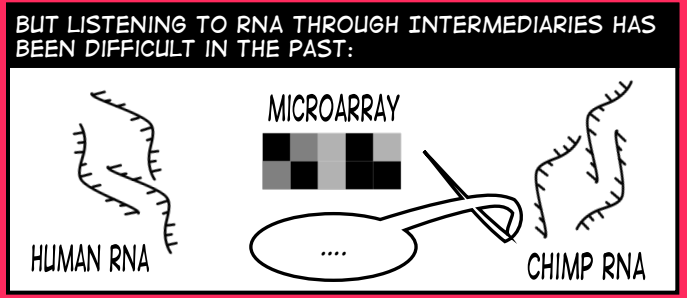
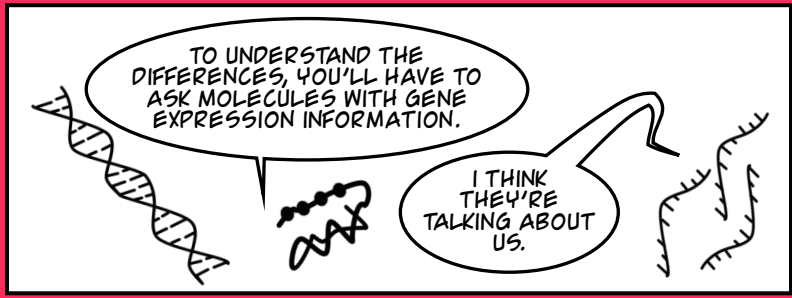
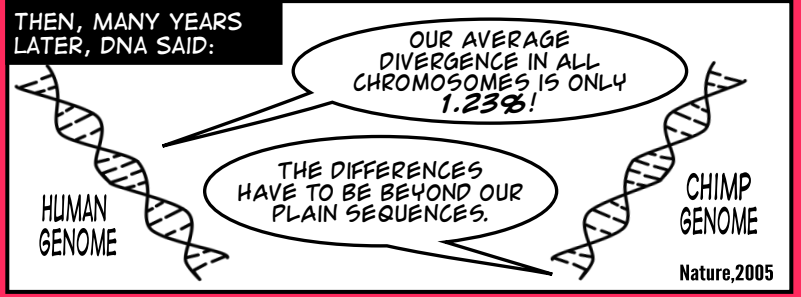
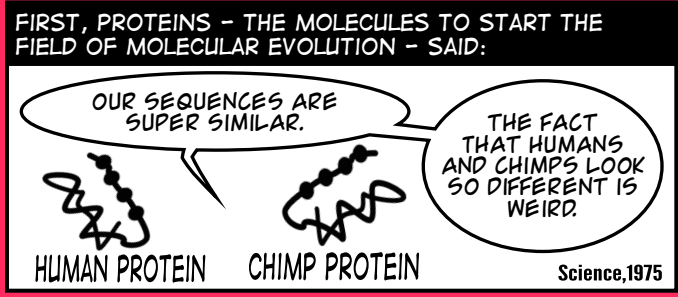


Evolutionary secrets our molecules have to tell us

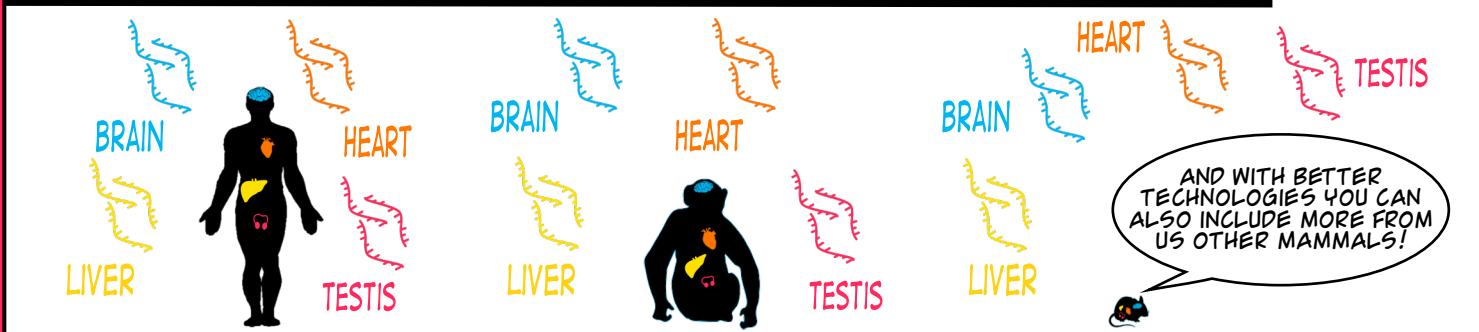
a comic inspired by the talk by Henrik Kaessmann



NOW WE KNOW HUMANS AND CHIMPS SHARE A COMMON ANCESTOR WHICH IS NOT SO FAR AWAY IN EVOLUTIONARY TIME. AND SCIENTISTS HAVE BEEN TRYING HARD TO LISTEN TO WHAT THE MOLECULES HAVE TO SAY TO ANSWER THE QUESTION: **HOW SIMILAR ARE WE?**



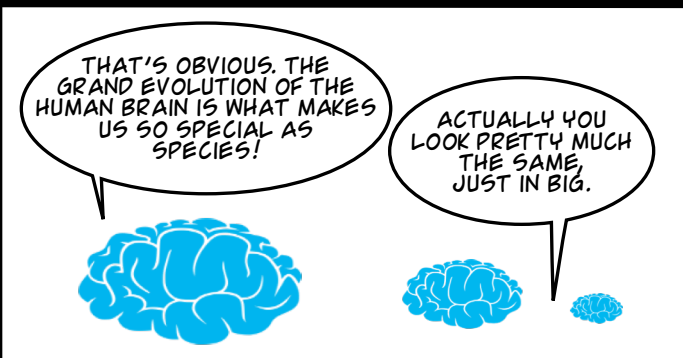
NOW WE'RE BETTER EQUIPPED TO LISTEN TO RNA! AND WE CAN TAKE INTO ACCOUNT THAT REGULATION OF EXPRESSION DEPENDS A LOT ON WHERE GENE EXPRESSION IS TAKING PLACE - IT'S ORGAN SPECIFIC!



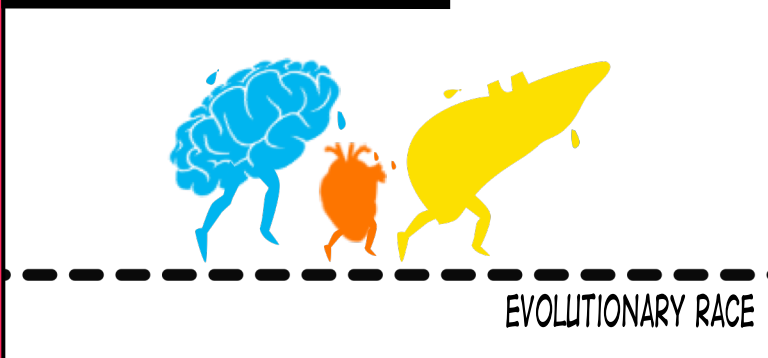
SO NOW RNA IS READY TO REVEAL SOME MORE EVOLUTIONARY INSIGHTS: #1: MOLECULES OF THE SAME ORGANS IN DIFFERENT SPECIES ARE MORE SIMILAR THAN MOLECULES OF DIFFERENT ORGANS IN THE SAME SPECIES!



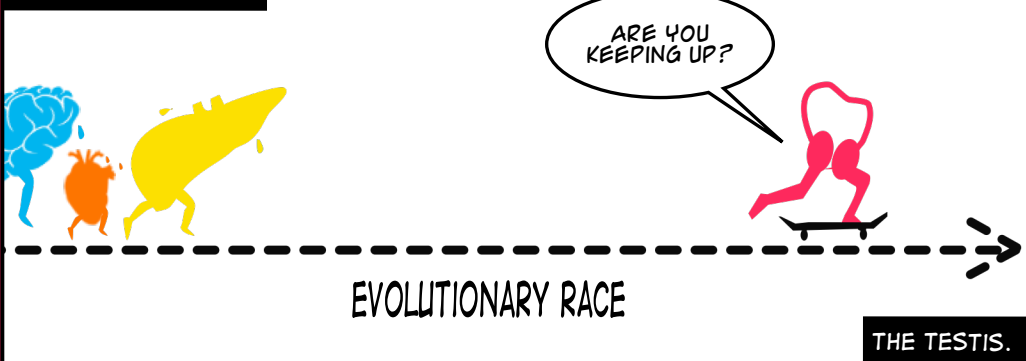
#2: NOT ALL ORGANS HAVE EVOLVED AT THE SAME PACE:



INDEED. THE BRAIN IS THE SLOWEST.



AND THE WINNER IS:



YES, BECAUSE THERE'S ANOTHER THING ALL MAMMALS HAVE IN COMMON:



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And made possible by: