Supplementary Table 2: Summary of published data concerning DA pathway transcripts expression.

	Dopamine pathway qPCR analysis in male offspring																	
Strain/ Perinatal exposure	Postnatal exposure	VTA						Nac					Hypothalamus				D.L.	D.6
		TH	DAT	D1	D2	MOR	ТН	DAT	D1	D2	MOR	тн	DA	Γ D1	D2	MOR	Behavior	References
Rat SPD (Junk food 4W before mating still	Juvenile (adolescence) P42 (3 weeks junk food challenge)	-		=	=		-		=	=	++						Higher preference for fat (free choice)	21
weaning)	Adult P90 (junk food choice from weaning)	=	=	=	=		=	++	=	-							Higher preference for fat (free choice)	21
Rat SPD (Junk food 4W before mating still weaning)	Juvenile (adolescence) P42 (3 weeks junk food challenge)	=	=	+	=	=			-	=	=						Higher preference for carbohydrate rather than fat (free choice)	35
	Adult P90 (Chow + 3weeks juvenile Junk food challenge)	=	=	+	=	=			=	=	=						No more difference (free choice)	
	Adult 6 months (chow + 3weeks young adult junk food	_	_	_		_			_	_	=						No more difference (free choice)	
	challenge									т							No more difference (free choice)	
Rat SPD (WD from G1 to P21)	Childhood (P25) (chow from weaning)	=	=	=	=	=	=	=	=	++	=	=	=	=	=	=	Higher preference for fat (free choice)	this study
	Juvenile (adolescence) P45 (chow from weaning)	-	=	=	=	=	=	+	=	=	=	=	+	=	=	=	Less preference for fat in WD group	
	Adult P90 (chow from weaning)	=	=	=	=	=	-	=	=	=	+	=	+	-	=	=	No more difference	
Rat Wistar (WD from G1 to P21)	Adult P90 (chow from weaning)				_			_	_	=							No difference in motivation for high sugar reward (operant) but a	22
																	higher preference for high palatable pellet (runway task)	22
Mice C57BL/6 (HFD 60% 3Month before	Adult 18-24W (Chow from weaning)	=	++				١_	++				++		=	= =		Higher preference for fat	19
mating)	\						Ļ	· '				1					<u> </u>	
Rat SPD (HFD G13 to weaning)	Adult P90 (Chow from weaning)			=	-				=	=							Higher motivation for fat reward but not sugar	20