

AIECs methylated TS/mRNA overlaps - Treatments

Treatment vs. Vehicle per Time Point	Regulation	methylated target/ mRNA Overlap	P-Value	Ratio	Pathways
Isotretinoin at 2 weeks	Induction	il12rb1	-	-	-
	Suppression	-	-	-	-

BIECs microRNA TS/mRNA overlaps - Treatments

Treatment vs. Vehicle per Time Point	Regulation	microRNA target/ mRNA Overlaps	P-Value	Ratio	Pathways
Isotretinoin at 2 weeks	Induction	-	-	-	-
	Suppression	-	-	-	-
Isotretinoin at 6 weeks	Induction	-	-	-	-
	Suppression	A530054k11rik, abcc9, abtb2, ankrd12, anks4b, atp7b, banp, bhlha15, ccdc116, cdy12, chordc1, clca5, cyp2d9, ddx60, dnajb9, dtwd2, edn3, etohi1, fh1, gm10033, gm14288, gm14440, gnat3, grpr, il6ra, ism1, kcnc1, kcnf1, mdn1, mfsd8, mier3, nr1d2, nudt15, omd, omp, p2ry4, per1, pik3r5, pim3, ptch2, rab38, rab6b, slc26a2, slc26a4, slc34a2, slc37a2, slc6a19, tef, tfrc, tle4, tll1, uty, wdr52, zfp273, zfp334, zfp442	1.01E-03	2/27	Neurophysiological process in sweet taste signaling
			1.082E-3	2/28	Neurophysiological process in bitter taste signaling
Metronidazole at 2 weeks	Induction		6.99E-03	2/72	IL-6 signaling pathway via JAK/STAT
	Suppression	Acat2, ccdc134, ccne1, ckap4, gcnt2, lrp8, polr3h, prr15, pxdc1, s100a11, scd2, slc13a1, smpd13b, syt12, tgm2, tmem181a, tmiqd1	1.015E-2	1/14	Nucleocytoplasmic transport of CDK/Cyclins in cell cycle
			1.519E-2	1/21	Cell cycle (generic schema)
			1.734E-2	1/24	MIF-JAB1 signaling in immune response
Metronidazole at 6 weeks	Induction				
	Suppression	4930539e08rik, abca1, abcg8, acta2, acvr11, add3, adhef1, af529169, afap112, agbl2, aldh1a3, alox15, aoc1, aph1c, arhgef9, arid3a, camsap2, ccdc85c, clic6, cpm, cyp21f2, dgkg, dmin, edn1, egr2, esr1, fam69a, fbp1, fggt, fcho1, gde1, glipr2, gmpr, gpc4, h2-dmb1, hao2, hist1h1c, hist1h4h, hist1h4j, hist2h2bb, igf1r, irs2, itgb8, kcnv2, kif3c, kif11, lifr, limch1, mett17a2, mett17a3, mme, nbl1, npas2, pcsk1n, pde7a, pde7b, plk2, pou6f1, ptpri, rab11fip5, reps2, rgl3, rnf208, rnf1, s100g, s100pbb, sfxn3, slc25a23, slc2a8, slc30a10, slc37a2, slc40a1, spaca6, spag17, sprr2a1, stxbp1, sun2, tgm3, timp3, tmem35, tpm2, trpm6, trpv3, ttbk2, ttc25, upb1, wbscr17, zbtb20, zbtb4	1.788E-4	3/25	Putative pathways of hormone action in neurofibromatosis type 1
			3.429E-4	3/31	NETosis in SLE
Doxycycline at 2 weeks	Induction		1.579E-3	3/52	ECM remodeling in cell adhesion
Doxycycline at 6 weeks	Induction	-	-	-	-
	Suppression	-	-	-	-
Doxycycline at 2 weeks	Induction		3.574E-5	2/58	Role of B cells in SLE
		cd28, fcgr2b, mylk4, yod1, zfp367	4.985E-3	1/24	IL-27 signaling pathway
			7.265E-3	1/35	Th17 cell differentiation
	Suppression		3.061E-4	2/54	Dynein-dynactin motor complex in axonal transport in neurons
		1810049j17rik, alad, cuedc1, dynlt1a, itpka, slc2a4, trim15	1.602E-2	1/31	Influence of low doses of Arsenite on glucose uptake in adipocytes
			1.65E-02	1/32	Putative pathways for stimulation of fat cell differentiation by Bisphenol A
Doxycycline at 6 weeks	Induction		1.857E-2	1/20	Oncostatin M signaling via JAK-Stat in immune response
		Cd46, eml5, esr2, f8, fzd6, inpp5d, lifr, mill2, mme, plekhg1, steap4	2.32E-02	1/25	Apoptotic Activin A signaling in apoptosis and survival
			2.774E-2	1/30	Colorectal cancer (general schema)

CIECs microRNA TS/mRNA overlaps - Time

6 weeks vs. 2 weeks per treatment	Regulation	microRNA target/ mRNA Overlaps	P-Value	Ratio	Pathways
Water	Induction	Abcg8, acat2, bmx, dclk1, fads1, fam221a, gm28040, gnat2, gpm6a, igsf23, nebl, nme1, pcsk9, mfl186, slc10a2, slc13a1, slc16a9, tm4sf1, tmem132c, upk3b, zfp85	3.856E-4	2/42	FXR-regulated cholesterol and bile acids cellular transport
			1.949E-2	1/27	Mitochondrial ketone bodies biosynthesis and metabolism
			2.164E-2	1/30	Granzyme A signaling in apoptosis and survival
Seed Oil	Induction		2.143E-2	1/26	S1P2 and S1P3 receptors in cell proliferation and differentiation
		Cbx4, cbx8, egr2, eml1, eno3, fgfr3, npr2, nptx1, nr1d2, srf, tmem53, ttc25	2.306E-2	1/28	Mu-type opioid receptor regulation of proliferation in development
			2.388E-2	1/29	Delta-type opioid receptor signaling in T-cells in immune response