

# The Interventions Testing Program ([ITP](#)) Supported Interventions

All tests are done on mice cohorts.

Each compound is given in the diet at the following levels (part per million -ppm- which is defined as milligrams of agent per kilogram of food). All testing is Stage I unless otherwise indicated.

An average lab mouse lifespan without intervention is about two years.

Compound	Cohort	Concentration in Food	Age at Treatment Initiation	Increase in Lifespan
<a href="#">4-OH-a-phenyl-N-tert-butyl nitron (4-OH-PBN)</a>	2004	315 ppm	4 mo	none
<a href="#">aspirin (Asp)</a>	2004	20 ppm	4 mo	Male
<a href="#">nitroflurbiprofen (NFP)</a>	2004	200 ppm	4 mo	none
<a href="#">nordihydroguaiaretic acid (NDGA)</a>	2004	2500 ppm	9 mo	Male
<a href="#">caffeic acid phenethyl ester (CAPE)</a>	2005	30 ppm	4 mo	none
<a href="#">caffeic acid phenethyl ester (CAPE)</a>	2005	300 ppm	4 mo	none
<a href="#">enalapril (Enal)</a>	2005	120 ppm	4 mo	none

<a href="#"><u>rapamycin (Rapa)</u></a>	2005	14 ppm	20 mo	Male & Female
<a href="#"><u>rapamycin (Rapa)</u></a>	2006	14 ppm	9 mo	Male & Female
<a href="#"><u>resveratrol (Res)</u></a>	2006	300 ppm	12 mo	none
<a href="#"><u>resveratrol (Res)</u></a>	2006	1200 ppm	12 mo	none
<a href="#"><u>simvastatin (Sim)</u></a>	2006	12 ppm	10 mo	none
<a href="#"><u>simvastatin (Sim)</u></a>	2006	120 ppm	10 mo	none
<a href="#"><u>curcumin (Cur)</u></a>	2007	2000 ppm	4 mo	none
<a href="#"><u>green tea extract (GTE)</u></a>	2007	2000 ppm	4 mo	none
<a href="#"><u>medium-chain triglyceride oil (MCTO)</u></a>	2007	60,000 ppm	4 mo	none
<a href="#"><u>oxaloacetic acid (OAA)</u></a>	2007	2200 ppm	4 mo	none
<a href="#"><u>resveratrol (Res)</u></a>	2007	300 ppm	4 mo	none
<a href="#"><u>17-a-estradiol (17aE2)</u></a>	2009	4.8 ppm	10 mo	Male
<a href="#"><u>acarbose (ACA)</u></a>	2009	1000 ppm	4 mo	Male
<a href="#"><u>methylene blue (MB)</u></a>	2009	28 ppm	4 mo	none
<a href="#"><u>rapamycin (Rapa) - Stage II</u></a>	2009	4.7 ppm	9 mo	Male & Female
<a href="#"><u>rapamycin (Rapa) - Stage II</u></a>	2009	14 ppm	9 mo	Male & Female

<a href="#"><u>rapamycin (Rapa) - Stage II</u></a>	2009	42 ppm	9 mo	Male & Female
<a href="#"><u>fish oil (FO)</u></a>	2010	15,000 ppm	9 mo	none
<a href="#"><u>fish oil (FO)</u></a>	2010	50,000 ppm	9 mo	none
<a href="#"><u>nordihydroguaiaretic acid (NDGA) - Male only, Stage II</u></a>	2010	800 ppm	6 mo	Male
<a href="#"><u>nordihydroguaiaretic acid (NDGA) - Male only, Stage II</u></a>	2010	2500 ppm	6 mo	Male
<a href="#"><u>nordihydroguaiaretic acid (NDGA) - Stage II</u></a>	2010	5000 ppm	6 mo	Male
<a href="#"><u>17-a-estradiol (17aE2)</u></a>	2011	14 ppm	10 mo	Male
<a href="#"><u>metformin (Met)</u></a>	2011	1000 ppm	9 mo	none
<a href="#"><u>metformin and rapamycin (MetRapa)</u></a>	2011	Met:1000 ppm and Rapa:14 ppm	9 mo	Male & Female
<a href="#"><u>Protandim (Prot)</u></a>	2011	600 ppm then 1200 ppm	10 mo then 17 mo	Male
<a href="#"><u>ursodeoxycholic acid (UDCA)</u></a>	2011	5000 ppm	5 mo	none
<a href="#"><u>2-(2-Hydroxyphenyl)benzoxazole (HBX)</u></a>	2012	1 ppm	15 mo	
<a href="#"><u>acarbose (ACA)</u></a>	2012	1000 ppm	16 mo	Male
<a href="#"><u>INT-767 FXR/TGR5</u></a>	2012	180 ppm	10 mo	none

<a href="#"><u>agonist (INT-767)</u></a>				
<b>nordihydroguaiaretic acid (NDGA) - Male only, Cross-Section</b>	2012	2500 ppm	13 mo	Male
<b>nordihydroguaiaretic acid (NDGA) - Female only, Cross-Section</b>	2012	5000 ppm	13 mo	none
<a href="#"><u>acarbose (ACA) - Stage II</u></a>	2013	400 ppm	8 mo	Male
<a href="#"><u>acarbose (ACA) - Stage II</u></a>	2013	1000 ppm	8 mo	Male
<a href="#"><u>acarbose (ACA) - Stage II</u></a>	2013	2500 ppm	8 mo	Male
<a href="#"><u>ursolic acid (UA)</u></a>	2013	2000 ppm	10 mo	none
<a href="#"><u>aspirin (Asp)</u></a>	2014	60 ppm	11 mo	none
<a href="#"><u>aspirin (Asp)</u></a>	2014	200 ppm	11 mo	none
<a href="#"><u>glycine (Gly)</u></a>	2014	80,000 ppm	9 mo	none
<a href="#"><u>inulin (Inu)</u></a>	2014	600 ppm	11 mo	none
<a href="#"><u>TM5441 (TM5441)</u></a>	2014	60 ppm	11 mo	none
<a href="#"><u>17-dimethylaminoethylamino-17-demethoxygeldanamycin hydrochloride (DMAG)</u></a>	2015	30 ppm	6 mo	none

<a href="#"><u>b-guanidinopropionic acid (bGPA)</u></a>	2015	3300 ppm	6 mo	none
<a href="#"><u>minocycline (Min)</u></a>	2015	300 ppm	6 mo	none
<a href="#"><u>MitoQ (MitoQ)</u></a>	2015	100 ppm	7 mo	none
<a href="#"><u>rapamycin (Rapa) - Stage II</u></a>	2015	42 ppm	20 mo (stop at 23)	Male
<a href="#"><u>rapamycin (Rapa) - Intermittent, Stage II</u></a>	2015	42 ppm (every other month)	20 mo	Male & Female
<a href="#"><u>rapamycin (Rapa) - Stage II</u></a>	2015	42 ppm	20 mo	Male & Female
<a href="#"><u>17-a-estradiol (17aE2) - Stage II</u></a>	2016	14.4 ppm	16 or 20 mo	none
<a href="#"><u>3-(3-hydroxybenzyl)-5-methylbenzo[d]oxazol-2(3H)-one (MIF098)</u></a>	2016	240 ppm	8 mo	none
<a href="#"><u>canagliflozin (Cana)</u></a>	2016	180 ppm	7 mo	Male
<a href="#"><u>candesartan cilexetil (CC)</u></a>	2016	30 ppm	7 mo	none
<a href="#"><u>geranylgeranyl acetone (GGA)</u></a>	2016	600 ppm	9 mo	none
<a href="#"><u>nicotinamide riboside (NR)</u></a>	2016	1000 ppm	8 mo	none
<b>Hydrogen Sulfide prodrug SG1002</b>	2016	240 ppm	19 mo	none

<b>1,3-butanediol (BD)</b>	2017	100,000 ppm	6 mo	none
<b>Captopril (Capt)</b>	2017	180 ppm	5 mo	Female
<b>L-Leucine (Leu)</b>	2017	40,000 ppm	5 mo	none
<b>PB125</b>	2017	100 ppm	5 mo	none
<b>Sulindac (Sul)</b>	2017	5 ppm	5 mo	none
<b>Syringaresinol (Syr)</b>	2017	300 ppm	5 mo	none
<b>Rapamycin + Acarbose (RaAc) - Stage II</b>	2017	Ra: 14.7 ppm and Ac: 1000 ppm	9 mo or 16 mo	Male & Female
<b>Fisetin (Fis)</b>	2018	600 ppm	20 mo	none
<b>Fisetin (Fis) - Cycling</b>	2018	600 ppm (3 days on/11 days off)	20 mo	none
<b>Hydrogen Sulfide prodrug SG1002</b>	2018	240 ppm	18 mo	none
<b>Astaxanthin (Asta)</b>	2019	4000 ppm	12 mo	In Progress
<b>Dimethyl Fumarate (DMF)</b>	2019	120 ppm	9 mo or 16 mo	In Progress
<b>Meclizine (Mec)</b>	2019	800 ppm	12 mo	In Progress
<b>Mycophenolic Acid (MPA)</b>	2019	6.7 ppm	9 mo	In Progress
<b>4-Phenylbutyrate (PBA)</b>	2019	1000 ppm	9 mo	In Progress
<b>Hydrogen Sulfide prodrug SG1002</b>	2019	240 ppm	6 mo	In Progress

<b>16 alpha-hydroxye stradiol</b>	2020	5 ppm	12 mo	In Progress
<b>2,4-Dinitrophen ol (DNP)</b>	2020	3 ppm	6 mo	In Progress
<b>Hydralazine</b>	2020	30 ppm	6 mo	In Progress
<b>Nebivolol</b>	2020	60 ppm	6 mo	In Progress
<b>Sodium Thiosulfate (STS)</b>	2020	10,000 ppm	6 mo	In Progress
<b>Canagliflozin (Cana) - Stage II</b>	2020	180 ppm	16 mo	In Progress