

Genotype Summary Report: Inflammation

Created for: **SAMPLE**

[Article: TNF-alpha](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TNF	rs1800629	A	GG	Increased TNF alpha, increased risk of many chronic inflammatory diseases
TNF	rs361525	A	GG	Increased TNF alpha, increased risk of many chronic inflammatory diseases
TNF	rs1799964	C	CT	Increased TNF alpha, increased risk of many chronic inflammatory diseases
TNF	rs1799724	T	--	Increased TNF alpha, increased risk of many chronic inflammatory diseases
TNFRSF1A	rs1800693	C	CT	Increased risk of multiple sclerosis; increased NF-kB signaling
TNFRSF1A	rs767455	C	CC	Increased risk of inflammatory diseases.
TNFRSF1B	rs1061622	G	GT	Increased risk of psoriasis, lupus
TNF	rs1800610	A	--	Lower TNF; less inflammation but more susceptible to infectious diseases

[Article: IL-17](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
IL17A	rs2275913	A	GG	Increased risk of autoimmune, periodontal, and bowel disease
IL17A	rs279548	T	--	Somewhat increased IL17A, increased risk of asthma, atopy
IL17F	rs763780	C	TT	Increased risk of rheumatoid arthritis
IL17A	rs8193037	A	GG	Decreased risk of some inflammatory conditions, decreased IL-17A
IL17F	rs3819025	A	GG	Decreased risk of some inflammatory conditions, decreased IL-17A

[Article: Inflammation Mood](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TNF	rs1800629	A	GG	Increased TNF-alpha
IL6	rs1800795	C	GG	CC only: Increased risk depression with stress
IL6	rs1800797	A	GG	Increased depression risk (Chinese pop.)
IL6R	rs4129267	C	CC	CC only: Increased risk of anxiety, depression
IL1B	rs16944	G	AA	GG only: Increased IL1B; Increased risk depression
IDO1	rs9657182	C	--	CC only: more likely to have depr. with inflammation
KMO	rs1053230	T	CC	increased 3-OH-kynurenine, decreased risk of bipolar with psychosis (good)
IL6	rs1800796	G	CG	GG only: Increased depression with inflammation

[Article: NLRP3](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
CIAS1	rs35829419	A	CC	Increased NLRP3 activation
CIAS1	rs1539019	A	CC	AA only: Increased NLRP3
CIAS1	rs10754558	C	CC	Somewhat increased NLRP3 activation
CIAS1	rs3806265	C	CC	Somewhat increased NLRP3 activation
CIAS1	rs10733113	A	GG	Somewhat increased NLRP3 activation
CIAS1	rs12048215	G	GG	Somewhat increased NLRP3 activation
CIAS1	i5007539	G	AA	Carrier of a mutation linked to familial cold urticaria
CIAS1	rs28937896	C	TT	Carrier of a mutation linked to familial cold urticaria
CIAS1	rs121908147	A	--	Carrier of a mutation linked to familial cold urticaria
CIAS1	rs121908150	T	--	Carrier of a mutation linked to familial cold urticaria
CIAS1	rs121908148	G	--	Carrier of a mutation linked to familial cold urticaria

[Article: Back Pain](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
IL1A	rs1800587	A	GG	Increased inflammation, pain from degenerative disc disease
IL6	rs1800795	C	GG	C/C: less risk of disc degeneration
CILP	rs2073711	A	GG	Decreased risk of disc disease
COL1A1	rs1800012	A	CC	Increased risk of pain from degenerative disc disease
COL2A1	rs2276454	G	GG	Increased risk of pain from degenerative disc disease
COL11A1	rs1676486	A	GG	Increased risk of pain from degenerative disc disease
COL11A1	rs2076311	A	AA	Increased risk of pain from degenerative disc disease
CASP9	rs4645978	C	CT	Increased risk of pain from degenerative disc disease
PARK2	rs926849	C	--	Increased risk of pain from degenerative disc disease

[Article: Gingivitis](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TNF	rs1800629	A	GG	Increased risk of inflammatory gum diseases
IL1A	rs1800587	A	GG	Increased risk of inflammatory gum diseases
IL1B	rs1143634	A	GG	Increased risk of inflammatory gum diseases
IL6	rs1800795	C	GG	Increased risk of inflammatory gum diseases
IL8	rs4073	A	AA	Increased risk of inflammatory gum diseases
IL10	rs1800896	C	CC	C/C: higher IL-10, less likely to have gum disease (good)
CCR5	i3003626	D	II	Decreased risk of periodontal disease
IL2	rs2069763	A	CC	3x increased risk of chronic periodontitis

[Article: Chronic Inflammation](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TNF	rs1800629	A	GG	Higher TNF levels, increased risk of many chronic inflammatory conditions
TNF	rs361525	A	GG	Higher TNF levels, increased risk of many chronic inflammatory conditions
IL8	rs4073	A	AA	A/A: Increased IL8; increased risk of periodontitis, gastritis, Alzheimers, diabetic nephropathy
IL6	rs1800795	C	GG	C/C: lower risk of gingivitis
IL1B	rs16944	G	AA	G - Typical risk of septic shock; A/A: Increased risk of septic shock
IL1B	rs1143634	A	GG	Increased risk of gingivitis
IL1A	rs1800587	A	GG	Increased IL1A, increased risk of gum disease, tinnitus, acne, hearing loss
IL10	rs1800896	C	CC	CC: higher IL-10 (usually good!)
NLRP3	rs35829419	A	CC	Increased susceptibility to several chronic inflammatory diseases.
HMGB1	rs1045411	T	CT	increased sepsis risk, higher HMGB1 levels in infection;
INFG	rs2430561	A	--	Increased interferon-gamma production, increased inflammatory and sickness behavior
MTHFR	rs1801133	A	AG	Decreased methyl group production, decreased detoxification of mercury and arsenic, possibly decreased melatonin production
GSTM1	rs366631	A	--	AA: GSTM1 null, increased risk of cancer, increased negative effects of smoking
GSTO1	rs4925	A	AA	Decreased detoxification of arsenic; increased risk of PCOS
GSTA1	rs3957357	A	GG	Decreased detoxification, increased risk of depression,
NFE2L2	rs6721961	T	--	Decreased Nrf2, increased risk of male infertility, increased risk of CVD,
AS3MT	rs11191439	C	CT	Arsenic is more harmful
NQO1	rs1800566	A	GG	Increased risk of cancer from benzene and smoking, increased risk of Parkinson's from pesticide exposure
SOD1	rs1041740	T	CT	Increased ROS, increased risk of kidney problems, heart disease
SOD2	rs5746136	T	CC	Increased ROS, increased risk of asthma, PCOS

[Article: Mast Cells](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
KIT	i5007903	T	AA	KIT D816V mutation (see article for caveats)
KIT	rs121913507	T	--	KIT D816V mutation (see article for caveats)
IL-13	rs1800925	T	CC	Increased risk of systemic mastocytosis, rhinitis, asthma
IL4R	rs1801275	A	AA	better prognosis in systemic mastocytosis
FCER1A	rs2298805	A	GG	Decreased risk of hives, lower IgE response
FCER1A	rs2251746	C	TT	Decreased IgE response
FCER1A	rs2427827	T	CT	Increased IgE, increase sinus problems, allergic reactions
CMA1	rs1800875	T	CC	Decreased IgE, lower risk of a-fib
PTPN22	rs2476601	A	GG	Increased psoriasis, arthritis, T1D, lupus, urticaria risk
IL33	rs1342326	A	CC	Increased risk asthma, hay fever
IL33	rs3939286	T	TT	Increased risk of asthma
IL33	rs928413	G	GG	Increased risk hay fever, asthma
ALDH2	rs671	A	GG	Increases mast cell activation
PTGS2	rs4140564	G	AA	Increased risk osteoarthritis
AOC1	rs10156191	T	CC	Reduced production of DAO, increased risk of migraines due to histamine
AOC1	rs2052129	T	GG	Reduced production of DAO, increased risk of migraines due to histamine
AOC1	rs1049742	T	CC	Reduced production of DAO
AOC1	rs1049793	G	CC	Reduced production of DAO
HNMT	rs1050891	A	AG	Reduced breakdown of histamine compared to G/G
HNMT	rs11558538	T	--	Reduced HNMT activity, reduced breakdown of histamine
HNMT	i3000469	T	CC	Reduced HNMT activity, reduced breakdown of histamine

[Article: ME/CFS](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
PTPN22	rs2476601	A	GG	increased risk of autoimmune diseases, increased susceptibility to CFS/ME (in patients with infectious disease onset)
CTLA4	rs3087243	G	AA	increased risk of autoimmune conditions, decrease CTLA4 expression; increased risk of CFS/ME (patients with infectious disease onset only)
TNF	rs1799724	T	--	higher TNF-alpha levels, increased susceptibility to CFS/ME
INFG	rs2430561	A	--	higher interferon; decreased risk of ME/CFS
NLRP3	rs35829419	A	CC	Increased susceptibility to fatigue / pain after EBV or other viruses
NLRP3	rs121908147	A	--	mutation linked to autoinflammatory disease in combo with other genes (rare)
TRPM8	rs11563204	A	GG	increased risk of CFS/ME (cold, menthol receptor)
TRPM3	rs6560200	C	TT	CC: common genotype, higher risk of CFS/ME (Naltrexone may work?)
TRPM3	rs1891301	T	CC	TT: higher risk of CFS/ME
CFB	rs4151667	A	TT	AA: increased risk of CFS/ME
CFH	rs1061170	C	TT	CC: increased risk of AMD, higher immune response; TT: increased risk of CFS/ME

[Article: Hearing Loss](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
EDN1	rs5370	T	GG	Increased risk of sudden sensorineural hearing loss (related to vasoconstriction)
F5	rs6025	T	CC	Factor V Leiden (clot related), increased risk of SSNHL
MTHFR	rs1801133	A	AG	Increased risk of SSNHL (folate-related)
SOD1	rs4998557	A	--	A/A only: increased relative risk of SSNHL
IL1R2	rs4141134	G	AA	Increased risk of SSNHL
UCP2	rs659366	T	CT	Increased risk of SSNHL
IL6	rs1800796	G	CG	Higher IL-6; increased risk of SSSL
HSP70	rs2763979	T	CT	Increased risk of noise-induced hearing loss
CYP1A1	rs1799814	T	GG	Increased CYP1A1 activity, increased risk of SSNHL

[Article: Acne](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TYK2	rs33980500	T	--	Decreased severe acne risk
TNF	rs1800629	A	GG	3-fold Increased acne risk
TNF	rs1799724	T	--	Decreased acne risk
CTLA4	rs3087243	G	AA	G/G: higher risk of acne
IL1A	rs1800587	A	GG	Increased acne risk (inflammation)
IL1A	rs17561	A	CC	Increased acne risk (inflammation)
IL6	rs1800796	C	CG	Increased acne risk (inflammation)
RETN	rs3745367	A	GG	Increased acne (sebum)
BCMO1	rs7501331	T	CT	Decreased beta-carotene conversion.
BCMO1	rs12934922	T	AT	decreased beta-carotene conversion
CYP17A1	rs743572	G	AG	Increased risk of acne (hormones)
HSD11B1	rs846910	A	--	A/G: 4-fold increase in acne risk
LCT	rs4988235	G	AG	GG only: Increased acne risk with dairy
TGFB1	rs1159268	A	AG	slight increase in the risk of acne
TGFB1	rs38055	A	AG	slight increase in the risk of acne
WNT10A	rs121908120	A	--	protective against acne

[🔗 Article: Specialized Pro-Resolving Mediators](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
FADS1	rs174546	T	CT	Lower FADS1 enzyme activity, benefit more from direct EPA/DHA intake
FADS2	rs1535	G	AG	Lower FADS1 enzyme activity, benefit more from direct EPA/DHA intake
ALOX5	rs4987105	T	--	Decreased risk of type 2 diabetes, lower levels of C-reactive protein (good)
ELOVL2	rs3734398	C	--	Decreased conversion of EPA to DHA
ALOX5AP	rs17216473	A	--	Increased risk of heart attack (population eating Western / high omega-6 diet)
ALOX12	rs1126667	A	AA	Slightly decreased risk of breast cancer, lower blood pressure (study group eating Western/ high omega-6 diet)
COX2	rs4648310	C	TT	Low DHA/EPA intake associated with a significantly increased risk of prostate cancer, but high DHA/EPA ameliorates the increased risk
COX2	rs5275	G	AA	Increasing intake of EPA/DHA reduces prostate cancer risk by 70%
GPR18	rs3742130	A	GG	SPM receptor; alters risk of IBD
CMKLR1	rs1878022	C	TT	Increased resolvin E1 receptor expression, reduced inflammation in obesity
GPR37	rs149031046	A	--	Protectin D1 receptor mutation; possibly important in autism (rare)

[🔗 Article: CBD](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TRPV1	rs8065080	C	TT	less TRPV1 activation
TRPV1	rs161364	T	TT	less TRPV1 activation
TRPV1	rs224534	A	AG	A/A: less TRPV1 activation
HTR1A	rs6295	G	CG	G/G: increased HTR1A receptor activity
ADORA2A	rs5751876	T	CT	T/T: increased anxiety
GPR55	rs3749073	A	CC	A/A: reduced receptor function, increased risk of anorexia

[🔗 Article: Fatigue](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TNF	rs1800629	A	GG	Higher TNF-alpha; Curcumin, apigenin, and naringenin may help.
TNF	rs3093662	G	AA	Higher TNF-alpha; Curcumin, apigenin, and naringenin may help.
IL1B	rs4848306	G	--	GG: more fatigue in chronic disease; Dihydromyricetin, quercetin
IL1B	rs1143643	T	CC	More fatigue in chronic illness; Dihydromyricetin, quercetin
IL6	rs1800795	C	GG	C/C: less fatigue (less IL-6 produced)
INFG	rs2430561	A	--	Increased fatigue risk when interferon-gamma is elevated
NLRP3	rs35829419	A	CC	Significantly increased risk of severe fatigue with inflammation; methylene blue, CBD, EGCG

[🔗 Article: IL13](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
Il13	rs20541	A	GG	higher IgE levels; higher risk of allergies, allergic rhinitis; increased risk of atopic dermatitis with childhood antibiotic use, increased risk of alopecia areata, increased risk of COPD
Il13	rs1800925	T	CC	increase IgE levels; increased risk of asthma; increased risk of periodontitis, increased risk of COPD
Il13	rs1295686	T	CC	increased risk of asthma
Il13	rs848	A	CC	increased risk of asthma, increased risk of alopecia areata

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
NFKB1	rs3774937	C	CT	Faster progression to hearing loss in Meniere's

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
NFKB1	rs4648011	G	GT	Faster progression to hearing loss in Meniere's
Inter-gen	rs4947296	C	TT	Increased risk of Meniere's
KCNE1	rs1805127	T	CC	Increased risk of Meniere's
KCNE3	rs2270676	G	AA	Increased risk of Meniere's
IL1A	rs1800587	A	GG	A: lower risk of hearing loss in Meniere's; G/G: (common) Higher risk of sudden hearing loss in Meniere's
ADD1	rs4961	T	GG	Increased risk of tinnitus
IL1A	rs1800587	A	GG	Lower risk of tinnitus

[Article: Antibiotic Reactions](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
MS4A2	rs569108	G	AA	G/G: increased risk of eczema with childhood antibiotic use
IL13	rs20541	A	GG	increased risk of atopic dermatitis with childhood antibiotic use
HLAB	rs114892859	T	--	increased risk of penicillin allergy and clindamycin adverse reactions
PTPN22	rs2476601	A	GG	slightly increased relative risk of liver injury with augmentin
HLA-DR	rs2395029	G	TT	45 to 80-fold increased risk of drug-induced liver injury with flucloxacillin
HLA-DRB1	rs3135388	A	AG	increased relative risk of liver injury with augmentin
HLAB	rs9263726	A	GG	increased relative risk of reaction to sulfamethoxazole (Bactrim)
HAAA	rs2523822	G	AA	increased relative risk of drug-induced liver disease with augmentin
LGALS3	rs11125	T	--	increased risk of beta-lactam antibiotic allergy
GSTM1	rs366631	A	--	A/A: deletion (null) increased risk of adverse cutaneous reactions to sulphonamides in AIDS

[Article: Estrogen and Histamine](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
AOC1	rs10156191	T	CC	reduced production of DAO
AOC1	rs2052129	T	GG	reduced production of DAO
AOC1	rs2071514	A	--	possibly higher DAO
HNMT	rs1050891	A	AG	reduced breakdown of histamine compared to G/G
HNMT	rs11558538	T	--	reduced HNMT activity, higher histamine levels
HNMT	rs2071048	T	CC	T/T: increased risk of asthma (and higher histamine), common variant
MTHFR	rs1801133	A	AG	decreased MTHFR function (C677T allele)
ESR1	rs9340799	G	AG	G/G: increased risk of endometriosis, likely higher estrogen receptors
GPER1	rs11544331	T	--	decreased estrogen receptor activation, lower risk of fibroids
AOC1	rs1049742	T	CC	reduced production of DAO
AOC1	rs1049793	G	CC	reduced production of DAO

[Article: Cold Sores](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
POU5F1	rs885950	C	AC	increased risk of cold sores
C21orf91	rs10446073	G	GG	increased likelihood of cold sores
C21orf91	rs1062202	G	--	increased likelihood of cold sores
VDR	rs2228570	A	--	increased likelihood of cold sores
IL1A	rs1304037	T	--	increased chance of recurrent cold sores
HCP5	rs4360170	G	--	increased risk of cold sores

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
ALOX5	rs4987105	T	--	Lower levels of inflammation and possibly lower lymphedema, decreased risk of type 2 diabetes
LTA4H	rs1978331	G	AA	Lower levels of LTA4H, which catalyzes the final step in the synthesis of leukotriene B4
MMP2	rs1030868	A	AA	Higher risk of secondary lymphoma
MMP2	rs2241145	C	CC	Higher risk of secondary lymphoma
FOXC2	rs34221221	C	CC	Increased gene expression (likely higher risk of secondary lymphedema)
TNF	rs1800629	A	GG	Higher TNF-alpha levels; increased risk of complications with lymphedema
TLR4	rs4986791	T	CC	Increased risk of complications with lymphedema
VEGFR3	rs10464063	T	--	Increased risk of secondary lymphedema (study of cancer patients)

Disclaimer: The information provided in the report and by Genetic Lifehacks is for informational purposes only. It is not intended to diagnose or treat any disease. Please visit GeneticLifehacks.com for more detailed information plus complete references.