

Analysis Report

Report date: 10/04/2019 **Time:** 10:26

Laboratory/ Physician/ Professional details

Physician/Lab: Doctor John Smith

City:

Patient details

Surname: JONES **Name:** ROSE
Date of Birth: 07/05/1985 **Place of Birth:**
Ethnicity: N.A. **Gender:** F
Sample ID:

Physician: Doctor Sarah Brown

Indication:

Medical

History:

Sample details:

Sample Type: Buccal swab **Our Sample ID:**

Sample acceptance date: 15/03/2019 **Sample acceptance time:** 16:49 **Collection date:** 14/03/2019

Test Date:

Test Performed: Nutrinext Complete

Analysis method: NGS

Diagnostic strategy:

Sample processing date: 08/04/2019 **Analysis completion date:** 09/04/2019

Results and Interpretation

Results:

ACTIVE SPORT PERFORMANCE

ACE Ins/Del rs4340: I/D
ACTN3 R577X C-T rs1815739: TT
CYP1A2 -163 C-A (1A)-(1F) rs762551: *1A/*1F
LTC -13910 T-C rs4988235: TC
LTC -22018 A-G rs182549: AG
NOS3 -786 T-C rs2070744: TC
VEGF G634C C-G rs2010963: CC

ACTIVE SPORT INJURY

COL12A1 Gly3058Ser G-A rs970547: AA
COL27A1 g.117049891 T-G rs946053: TT
COL5A1 c.267 C-T rs12722: CT
COL6A4P1 g.15216429 C-T rs7639618: CC
COL1A1 c.104-441 G-T rs1800012: GT
CTR Pro463Leu C-T rs1801197: TT
ESR1 PvuII (IVS1-397) C-T rs2234693: CT
ESR1 XbaI (IVS1-351) A-G rs9340799: AG
ESR2 39 A-G rs4986938: AG
GDF5 +104 C-T rs143383: CC
IGF2 G17200A G-A rs680: GA
IGF2 C18790G C-G rs3213221: CG
IGF2As G11711T G-T rs7924316: GT
IGFBP-3 -C1592A C-A rs2132570: CA
LRP5 Ala1330Val C-T rs3736228: CT
MCT1 A1470T A-T rs1049434: AT
MMP1 -1607 G-2G rs1799750: 2G/2G
MMP10 g.102779693 C-T rs486055: CC
MMP12 g.102875061 A-G rs2276109: AA
MMP3 g.102842889 A-G rs679620: GG
MMP3 g.102840607 T-C rs591058: CC
MMP3 g.102838056 G-A rs650108: GA
NRF2 c.16-8797 T-C rs7181866: TT
TNC g.117813990 C-T rs1330363: TT
TNC g.117808785 T-A rs2104772: TT
VDR FokI (ATG-ACG cod 1) T-C rs2228570: TC
VDR BsmI intr8 A-G rs1544410: GG
VDR TaqI es9 T-C rs731236: TT

Predisposition for celiac disease

DR type 4 DQ 8 A-G rs7454108: AA
DR type 7 DQ 2.2 G-T rs2395182: GT
DR type 7 DQ 2.2 A-G rs7775228: AA
DR type 7 DQ 2.2 G-A rs4713586: AA
ALLELI DI PREDISPOSIZIONE ALLA CELIACHIA: ASSENZA

Sensitivity to caffeine

CYP1A2 -163 C-A (1A)-(1F) rs762551: *1A/*1F

Lactose intolerance
LTC -13910 T-C rs4988235: TC
LTC -22018 A-G rs182549: AG

Fructose intolerance
ALDOB del4E4 no del-del rs387906225: NO DEL/NO DEL
ALDOB A150P G-C rs1800546: GG
ALDOB A175D C-A rs76917243: CC
ALDOB N335K C-G rs78340951: CC

Alcohol sensitivity
ALDH2 E504K G-A rs671: GG
ADH2 (ADH1B) H48R A-G rs1229984: AA
ADH3 (ADH1C) I350V A-G rs698: AA

Nickel sensitivity
FLG 2282del4bp no del-del rs558269137: NO DEL/NO DEL
TNFa -308 G-A rs1800629: GG

Sulfites sensitivity
SUOX Q364X C-T: CC
SUOX S370S G-C rs773115: CC
SUOX S370Y C-A: CC
SUOX cod.381 delTAGA no del-del: NO DEL/NO DEL
CBS C699T C-T rs234706: TT
CBS T1080C T-C rs1801181: CC

HOMOCYSTEINE METABOLISM
CBS C699T C-T rs234706: TT
CBS T1080C T-C rs1801181: CC
MTHFR C677T C-T rs1801133: CT
MTHFR A1298C A-C rs1801131: AA
MTR A2756G A-G rs1805087: AA
MTRR A66G A-G rs1801394: AG
TCN2 776 C-G rs1801198: CC

INFLAMMATORY
RESPONSE
AACT -51 G-T rs1884082: GG
CRP 3872 G-A rs1205: GA
IL-1B -511 C-T rs16944: CT
IL-1B c.81 C-T rs1143634: CC
IL-6 -572 G-C rs1800796: GG
IL-6 -174 G-C rs1800795: GG
IL-10 -1082 G-A rs1800896: AA
IL1RN c.69 T-C rs419598: TC
IL6R D358A A-C rs2228145: AA
IFNG +874 A-T rs2430561: AT
TNFa -308 G-A rs1800629: GG

CARDIOVASCULAR HEALTH AND LIPID METABOLISM
ACE Ins/Del rs4340: I/D
ADIPOq -11391 G-A rs17300539: GG

ADRA2B Ins/Del cod.299: I/D
ADRB1 G389R G-C rs1801253: CC
ADRB2 G16R G-A rs1042713: AA
ADRB2 Q27E C-G rs1042714: CC
ADRB3 W64R T-C rs4994: TT
AGT M235T T-C rs699: TC
AGTR1 A1166C A-C rs5186: AA
Apo B R3500Q G-A rs5742904: GG
APO E: E3/E3
APOA1 -75 G-A rs670: GA
APOA2 -265 C-T rs5082: TT
APOC3 C3175G C-G rs5128: CC
FGB C148T C-T rs1800787: CC
CETP G279A G-A rs708272: GA
CETP G1353A G-A rs1800777: GG
E-Selectin Ser128Arg A-C rs5361: AA
EDN1 Lys198Asn G-T rs5370: GT
FABP2 A54T G-A rs1799883: GG
Factor V R506Q G-A rs6025: GG
FTO T-A rs9939609: TA
FTO C-A rs8050136: CA
FTO C-T rs1121980: CT
FTO T-C rs1421085: TC
FTO T-G rs17817449: TG
GHSR G477A G-A rs572169: GA
GJA4 (CX37) Pro319Ser C-T rs1764391: CT
HMGCR -911 C-A rs3761740: CA
Leptin -2548 G-A rs7799039: GA
LIPC -514 C-T rs1800588: CT
LPA A-G rs10455872: AG
LPL C1595G C-G rs328: CC
MC4R g.60183864 T-C rs17782313: TC
MMP3 1171 5A-6A rs35068180: 6A/6A
MTNR1B g.92975544 C-G rs10830963: CG
NOS3 -786 T-C rs2070744: TC
NOS3 Glu298Asp G-T rs1799983: GG
NOX p22 PHOX (CYBA) C242T T-C rs4673: CC
NPY L7P T-C rs16139: TT
PON1 Gln192Arg A-G rs662: AA
PPARA L162V G-C rs4253778: GG
PPARG P12A C-G rs1801282: CC
PPARGC1A G482S G-A rs8192678: GG
PROCR Ser219Gly A-G rs867186: AA
SREBF2 Gly595Ala G-C rs2228314: GC
TCF7L2 c.382-41435 C-T rs7903146: CC
VEGF c.-1507 C-G rs2010963: GG
VEGF -2578 C-A rs699947: AA

BONE HEALTH

COL12A1 Gly3058Ser G-A rs970547: AA
COL27A1 g.117049891 T-G rs946053: TT
COL5A1 c.267 C-T rs12722: CT

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CHIAMATA GRATUITA
NUMEROVERDE
800-501651

COL6A4P1 g.15216429 C-T rs7639618: CC
COL1A1 c.104-441 G-T rs1800012: GT
CTR Pro463Leu C-T rs1801197: TT
ESR1 PvuII (IVS1-397) C-T rs2234693: CT
ESR1 XbaI (IVS1-351) A-G rs9340799: AG
ESR2 39 A-G rs4986938: AG
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IGFBP-3 -C1592A C-A rs2132570: CA
LRP5 Ala1330Val C-T rs3736228: CT
MBL2 g.797 C-A rs45602536: CC
MCT1 A1470T A-T rs1049434: AT
MMP1 -1607 G-2G rs1799750: 2G/2G
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TNC g.117813990 C-T rs1330363: TT
TNC g.117808785 T-A rs2104772: TT
VDR FokI (ATG-ACG cod 1) T-C rs2228570: TC
VDR BsmI intr8 A-G rs1544410: GG
VDR TaqI es9 T-C rs731236: TT

OXIDATIVE STRESS - ANTIAGING

5HTTPLR S/L rs25531: L/L
CAT C262T C-T rs1001179: CC
EPHX1 Y113H T-C rs1051740: TC
EPHX1 R139H A-G rs2234922: AA
GPX1 P200L C-T rs1050450: TT
GSTM1 gene deletion no del-del: DEL
GSTP1 I105V A-G rs1695: AG
GSTP1 A114V C-T rs1138272: CC
GSTT1 gene deletion no del-del: NO DEL
MnSOD (SOD2) A16V C-T rs4880: TT
MnSOD (SOD2) T175C T-C rs1141718: TT
SOD3 C760G C-G rs1799895: CC
SUOX Q364X C-T: CC
SUOX S370S G-C rs773115: CC
SUOX S370Y C-A: CC
SUOX cod.381 del TAGA: NO DEL/NO DEL

WEIGHT CONTROL

ADIPOq -11391 G-A rs17300539: GG
ADRB1 G389R G-C rs1801253: CC
ADRB2 G16R G-A rs1042713: AA
ADRB3 W64R T-C rs4994: TT
APOA2 -265 C-T rs5082: TT
APOA5 -1131 T-C rs662799: TT
FABP2 A54T G-A rs1799883: GG

FTO T-A rs9939609: TA
FTO C-A rs8050136: CA
FTO C-T rs1121980: CT
FTO T-C rs1421085: TC
FTO T-G rs17817449: TG
GHSR G477A G-A rs572169: GA
Leptin -2548 G-A rs7799039: GA
MC4R g.60183864 T-C rs17782313: TC
NPY L7P T-C rs16139: TT
PPARG P12A C-G rs1801282: CC
VEGFA c.-1507 C-G rs2010963: GG
5HTTPLR S/L rs25531: L/L
ADRA2B Ins/Del cod.299: I/D

Interpretation:

The test showed the absence of the alleles listed in the technical note for celiac disease predisposition.

Absence of HLA risk alleles for celiac disease

INTERPRETATION: ABSENCE

Technical notes:

This condition makes the occurrence of the celiac disease highly unlikely. Analysis by PCR and reverse dot blot to mark the presence of the allelic groups DQA1*03, DQA1*05, DQB1*02 E DQB1*0302 which form the heterodimers DQ2 and DQ8 responsible for predisposition to celiac disease. The genetic risk of developing celiac disease depends on the DQB1*02 number of copies and on the type of configuration (cis or trans) in which the investigated alleles are present. The haplotypes most commonly associated with celiac disease are: DR3, DR7- DQ2; DR9-DQ2; DR4-DQ2; DR5; DR4-DQ8. Technical report attached.

Comments:

Suggestions:

Verification date: 09/04/2019

Validation date: 10/04/2019

This report represents a true copy to the primary document, which is deposited in the archives of the Genoma Group Srl lab.

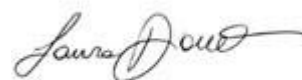
The Geneticist

Dr. Marina Baldi



The Lab Director

Dr. Laura Diano



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