

# A Comparative Study on JAK2 G1849T V617F and TP53 G469T V157F Mutations

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**Abstract** The methionine-tyrosine chemistry gives a clear concept of structural genetics. The protein expansions are result of electro-gravitational chemistry. Cysteine is a significant residue found in these structural mutations. Lunar gravity (0.1605) possesses a significant role in biophysics. The influx of electro-gravitational impulses into cell occurs following electro-gravitational structural imbalance towards equilibrium through cell processes.

**Keywords** Point mutation, Cysteine, Methylation, Phosphorylation, Carboxylation

## 1. Introduction

These cancer developing mutations v157f and v617f can be explained from methionine(AUG)- tyrosine (UAC) structural interactions. The protein mutations is followed by genetic mutations G1849T and G469T where 1849 and 469 are molecular or genetic points are structural factors. These can be related as  $1849 + 469 = 2318(122) = 0.2831(149)$ , met gravitational values) – 0.0513 (electronic time values) and conversely  $1849 - 469 = 1380 = 0.2831(149) - 0.1451$  (electromagnetic values) in the structure. The lunar time  $183 \times 0.0019 = 0.3477$  (diameter of our moon with transitional decimal factor) =  $0.1159(61) \times 3$  where  $0.1159 \times 2 = 0.2318(122)$  and  $460 \times 3 = 1380$  where  $9(0.0171) \times 3 = 27(0.0513)$  shows molecular point is a chemistry of gravitational and electromagnetic values. The genetic point 1849 shows an electronic values apart where  $1849 + 27(0.0513) = 1876 = 469 \times 4$ .

It is seen  $0.0460 - 0.0171(9) = 0.0289 = 0.1894$  (tyr horizontal time) - 0.1605 (lunar gravity) and conversely  $0.1840 - 0.0171(9) = 0.1669 = 0.1150 + 0.0519$  where 0.2124 (met horizontal time) – 0.1605 = 0.0519 that related to 0.1159(61). In addition,  $0.0460$  (expansion unit) + 0.0171 = 0.0631 =  $0.1150 - 0.0519$  and  $0.2124 - 0.1894 = 0.0230 = 230 = 460/2$  suggests protein expansion is due to electro-gravitational chemistry.

Mathematically,  $519 + 289 = 808 = 1616/2$  where 0.1616 = 0.1605 + 0.0011 and where 11 = 9 + 2(or 0.0038) are structural factors. Again,  $1380 / 2 = 690$  where 1690 is symmetrical to 221(i.e. 183 + 38) since 121.1590 (cys) is structurally associated.

The core values of val =  $117 \times 0.0019 - 0.1469 = 0.0754$  while pre-transitional values  $0.1469 - 0.0117 = 0.1352$  gives  $0.1352 + 0.0754 = 0.2106$  (curvature of tyr) where  $0.2000 - 0.0106 = 0.1894$  (tyr ht). Accordingly,  $0.1735$  (phe pre-transitional values) + 0.1235(phe core values) = 0.2970 where  $0.2000 - 0.0970 = 0.1030 = 0.1605$  (lunar gravity) – 0.0575 where  $0.3477(183) - 0.1451 \times 2 = 0.0575$  would actuates influx of electro-gravitational impulses into cell and leads to cancer development.

It is seen  $181 \times 0.0019 = 0.3439$  (tyr vertical time) = 0.2970 + 0.0469 where  $0.2970 - 0.1849 = 0.1121$  that symmetrical to 0.2590 according to cysteine (121.1590) where  $0.2970 - 0.2590 = 0.0380 = 0.1380 - 0.1000$  (a structural factor) where  $1000 - 575 = 425$  (electromagnetic values in opposite direction).

The methionine and tyrosine are structurally symmetrical and molecular points 157 or 617 would be specified for valine and after mutation phenylalanine would hamper structural symmetry that leads to cancer development.

Since transitions are common factor in structural genetics, decimals have been avoided somewhere. A time difference of 0.0001-0.0002 has been found in the system.

## 2. Discussions

Met(149.2124)-Tyr(181.1894) structural symmetry and cancerous mutations:

The core values or hidden time is associated with the genetic structural system. The addition of core values =  $0.0707(\text{met}) + 0.1545(\text{tyr}) = 0.2252 = 0.3667(193) - 0.1415$  where  $0.2831(149)/2 = 0.1415(\text{app.})$  and where  $0.1605 - 0.1415 = 0.0190(10)$  in the structure [1]. Conversely,  $0.1545 - 0.0707 = 0.0838 = 0.0418 \times 2 + 0.0002$  where  $0.3477(183) - 0.3059 = 0.0418$  and  $0.3667 - 0.3059 = 0.0608$  (oxy-time)

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according to fundamental molecular structure. The lunar time (0.3477) is associated with earth-moon curvature of time (0.0368), a point of bisection while 0.3667(193) would be associated with 0.0378 (TTT) would be also a point of bisection.

It is seen  $1834$  (i.e.  $3668/2$ )  $- 289 = 1545$  (core values of tyrosine) while  $1834 + 289 = 2123$  (met ht with 0.0001 time difference) and also  $1849 - 1545 = 304(16)$ , the existence of oxy-time in the structure.

Mathematically (avoiding decimals),  $3439(181) - 469 = 2970 = 1235$  (phe C<sub>v</sub>) +  $1735$  (phe pre-transitional values), a significant values after mutation and  $3439 - 1849 = 1590$  (cys ht) where  $2318(122) - 1590 = 728$  and where  $728 - 19(1) = 709$  (cys C<sub>v</sub>) and  $709 - 19 = 690 = 1380/2$  in the structure. In terms of lunar gravity,  $1605 - 60 = 1545$  where  $183/3 = 61 = 60 + 1$  and  $181 - 121 = 60$ .

From genetics point of view,  $1628$  (i.e.  $814*2$ )  $- 469 = 1159(61)$  and  $1849 - 1628 = 221$  that dimensional to  $1590 + 100 = 1690 = 1000 + 690$  (i.e.  $460*3/2$ ) in cysteine ( $121.1590$ ) where  $814 = 487$  (deoxyribonucleotide triphosphates avg. MW) +  $327$  (deoxyribonucleotide monophosphates avg. MW) in the structure.

The doubling of cysteine =  $121.1590*2 = 242.3180$  since cys-cys pairing is significant in the structure. It is seen  $3180 = 1605 + 1575 = 1451 + 1729$  where  $3477 - 2902 = 575$  (electro-gravitational factor) and  $575 + 154$  (factor of opposite)  $= 729$  and  $729 + 154 = 883 = 460$  (expansion unit) +  $423$  (electro-magnet values in opposite direction with 0.0002 time difference) where  $423 - 193 = 230 = 2124 - 1894$ . Conversely,  $1605 - 1575 = 30 = 36 - 6$  (factor of opposite) and  $1729 - 1451 = 278 = 272$  (i.e.  $136*2$ ) +  $6$  where  $1605$  (lunar gravity)  $- 1469$  (cys pre-transitional values)  $= 136 = 1849 - 1713$  (tyr pre-transitional values).

The tyr-cys complex shows  $136 + 153$  (factor of opposite)  $= 289 = 1894 - 1605$  and  $3439(181) - 2106 = 1333 = 1713 - 380$  that related to protein expansion.

Since the system is structurally compatible, the mutations would leads to cancer. There would have been inclination between positive and negative side under mutations. The tyr-cys complex is associated with stem cell biochemistry [2] where gravitational side (181) and anti-gravitational side (0.1894) in tyrosine would possesses an individual identity and co-related that would be helpful for investigation of JAK2 and TP53 and its consequences under mutations.

### 3. About Molecular Bio-Markers

The biological processes like phosphorylation, carboxylation, methylation etc. show electro-gravitational chemistry. The phosphorylation of tyrosine =  $181.1894 + 94.9714$  ( $\text{PO}_4^{-3}$ )  $= 276.1608$  where  $0.1608 + 0.0276 = 0.1884$  and where  $0.0884 = 0.0460 + 0.0424 = 0.0729 + 0.0154$  (factor of opposite) with 0.0001 time difference and also where  $0.0575 + 0.0154 = 0.0729$  would be causing influx of electro-gravitational impulses into cell towards equilibrium and raises bioactivity.

The carboxylation of glutamic acid =  $147.1299 + 28.01 = 175.1399$  where  $0.1399 + 0.0175 = 0.1574$ . There is an analogy between glutamic acid and tryptophan while the pre-transitional values of amino acids are measured from lunar gravity exists in upper and lower level.

The methylation of arginine and lysine gives molecular weights  $188.2300$  g/mol and  $160.2100$  g/mol respectively. It is seen  $2300 - 188 = 2112 = 1605 + 507$  where  $3477 - 2970 = 507$  and  $2300 + 188 = 2488 = 1605 + 883$  in the structure.

Again,  $2100 - 160 = 1940 = 2970 - 1030$  where  $1605 - 1030 = 575 = 3477$  (lunar time)  $- 2902(1451*2)$ , electromagnetic values).

Molecular biomarkers would be key values to combat with cancer but needed highly experimentation.

### 4. Conclusions

The structural symmetry of methionine-tyrosine is associated with cancer development while mutation occurs in molecular point a structural component intrinsically aligned to met-tyr symmetry. The protein expansion is due to electro-gravitational chemistry. The electro-gravitational structural imbalance leads to influx of electro-gravitational impulses into cell towards equilibrium through cell processes and sometimes goes detrimental.

### REFERENCES

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