

The Polymorphic Site and Structural Genetics

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Abstract Genetics is basically electro-gravitational chemistry. Because of intricate structure of lunar time (183 or 0.3477) a structural labyrinth has been developed where lunar gravity (0.1605) works intrinsically in electromagnetic interface. Polymorphic site (72) and t-RNA distance of constancy (66\AA^0) factor synonymous with mass are two structural components in the system. The existence of arginine and proline in polymorphic site has been discussed significantly. The two diseases cancer and sickle-cell-anaemia have been described mathematically in upper and lower level aspects in the structure.

Keywords Co-linearity, Molecular point, P53, De-oxy-nucleotides, Mutation

1. Introduction

Associated with 393-amino acids, p53 protein is a fundamental protein and the polymorphic site-72(0.1368) is a standard molecular point where arginine (174.2017) or proline (115.1311) can be exists. On the basis of lunar gravity (0.1605), arginine exists in upper level (+) whereas proline exists in lower level (-) or anti-parallel in directional genetics. Considering from lunar time (183 or 0.3477), $184 - 174 = 10$ and correspondingly $87(0.1653) + 10 = 97 = 0.1843$ (arg pre-transitional values) = $0.2017 - 0.0174$ where $0.0551(29)*3 = 0.1653(87)$ since the intrinsic structure of lunar time possesses opposite direction, $183 = 154$ (factor of opposite) + 29 where 149 (met integer values) + 6 = 155. The values $174 = 171 + 3$ and $0.0171 - 0.0057(3) = 0.0114(6)$ where '6' would be a factor of opposite in lower level. This comply with the structure of lunar time where $183 = 154 + 29$ and $149 + 6 = 155$ where $0.3477 = 0.2831(149) + 0.0646$ (trp factor) and $0.2831 - 0.0646 = 0.2185(115 \text{ or } 6)$ and also 0.1615 (trp C_v) - 0.1064 (thr C_v) = $0.0551(29)$ in the structure. Again, $23 + 6 = 29$ where $(0.1254 + 0.1368) - 0.2185 = 0.0437(23)$ and where $0.1254(66\text{\AA}^0$, t-RNA distance of constancy factor) and $0.1368(72)$, polymorphic site) are two fundamental component of the structural genetics differentiated by $0.1368 - 0.1254 = 0.0114(6)$.

The lunar time comprises two bisectional units methionine and tryptophan where met is generally governed by 0.1254(66) and that of trp by 0.1368(72) towards cell cycle and met exists in opposite direction of trp.

The formula $T(\text{time}) = 0.0019*M$ (integer gravitational mass) is prevailing in the system derived from 14.0266, an inter-amino acid factor somewhere.

In contrast, proline (115.1311) is formed as $184 = 115 +$

69 where $69*0.0019 = 0.1311$ and $0.1311 - 0.0115 = 0.1196$ (pro pre-transitional values) and $115*0.0019 - 0.1311 = 0.0874$ (pro core values). The resultant values of proline = $0.1196 - 0.0874 = 0.0322$ whereas resultant values of arg = 0.1843 (arg pre-transitional values) - 0.1289 (arg core values) = 0.0554 and interestingly $0.0554 + 0.0322 = 0.0876$ (about pro core values).

It is seen $333(\text{CCC}) + 154 = 487\text{g/mol}$ (avg. tri) and $333(\text{CCC}) - 6 = 327\text{g/mol}$ (avg. mono) and the difference, $487 - 327 = 160 = 154 + 6$, where 154 and 6 are 'factors of opposite' in upper and lower level that would be based from lunar gravity (0.1605). The p53 protein developed where 547 (met factor) - $154 = 393 = 399$ (AUG) - 6 where $149 + 6 = 155$ in the structure.

Again, $160 + 23 = 183$ and correspondingly $1605 - 814 = 791 = 814 - 23 = 977 - 186$ where $1000 - 977 = 23$ and $562 + 438 = 1000$ and also $1415 - 977 = 438(23)$ [1]. Significantly, $428 + 160 = 588$ where $1391 - 963 = 428$ and conversely $1391 + 963 = 2354 = 1177*2$ and $1605 - 1177 = 428$ in the structure. It is seen $0.1159(61) + 0.0446 = 0.1605$ and $0.1159*2 - 0.1605 = 0.0713 = 0.0813 - 0.0100$. The three factors 0.0446 (glu), 0.0547 (met) and 0.0646 (trp) with approximately difference of '100' are important in biophysical chemistry.

As 0.0149 can be transit to 149 in the system and there are so many transitions, decimals have been avoided somewhere. A time difference of 0.0001(1)-0.0002(2) is about a common factor in the system which will not be mentioned specifically.

A term 'resultant values' used somewhere that the difference of pre-transitional values and core values e.g. the resultant values of met = $0.1975 - 0.0707 = 0.1268$ is important.

2. Discussions

Polymorphic site is described in genetic point of view

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where de-oxy-nucleotides avg. MW 487.0 g/mol (tri) and 327.0 g/mol (mono) are associated as $0.0487 + 0.0327 = 0.0814 = 814$ and also $0.0237 + 0.0351 = 0.0588 = 588$ where $0.1605 - 0.1368 = 0.0237$ and $0.1605 - 0.1254 = 0.0351$ in aspects of lunar gravity. Now the values $0.0814 + 0.0554$ (arg resultant values) = $0.1368(72)$ and $0.0814 - 0.0322$ (pro resultant values) = $0.0492 = 0.1843$ (arg pre-transitional values) - 0.1351 with a structural factor of difference '1000' where $0.1197(63) + 0.0154 = 0.1351$.

According to structural molecular formula 238.3059 (161) [2], it is seen $0.1197(63)$ with one step up has been cancelled out from both sides towards forming arginine 174.2017 where $0.2017 - 0.0174 = 0.1843(97)$ and where $237 - 63 = 174$ and $160 - 63 = 97$ and the difference, $174 - 97 = 77 = 0.1463$. Mathematically, $1463 - 814 = 649 = 646 + 3$ and in other respects $646 - 57 = 589 = 238 + 351$ in the structure. It is seen $814 - 351 = 463 = 1463 - 1000$ and $260 + 91$ (bisection of lunar time) = 351 where $814 - 554 = 260$ and $91 + 6 = 97$ and also $407(di) + 91 = 498 = 492 + 6$ in the structure.

In context of upper (+) and lower level (-), $0.1368 + 0.0171 = 0.1539(81)$ and $0.1368 - 0.0171 = 0.1197(63)$, the later cancelled out would be due to division at a point $0.0367 = 0.0304$ (oxy-time) + $0.0063(63)$ where $0.1843 - 0.0304 = 0.1539$ (81) and proline would be a bio-product in opposite direction to complement arginine where $0.1311 - 0.0115 = 0.1196$ (pro pre-transitional values).

It is seen $0.0814 + 0.0554$ (arg resultant values) = 0.1368 and conversely $0.0814 - 0.0322$ (pro resultant values) = 0.0492 where $0.0554 - 0.0492 = 0.0062(62)$ and $0.0554 + 0.0492 + 0.0304$ (complementary factor) = 0.1350 .

At polymorphic site the system would appear at 0.0368 earth-moon curvatures and would bisect at $0.0184*2$ but it is seen the division is $0.0368 = 0.0305 + 0.0063$, a structural complementation. Again, $1197(63) - 814 = 383$ where $305 + 283 = 588$ and $160 = 97 + 63$ (cancelled out) and $1197 - 589 = 608$ (oxy-time) and also $260 - 77 = 183$ where $814 - 554 = 260$, with a difference of '100' in the structure.

In sickle-cell-anaemia (SCA), at molecular point '6' of beta-strand Haemoglobin, glu can be replaced by val (Hb S) or lys (Hb C) where the mutational values 0.1494 (glu C_v) - 0.0754 (val C_v) = 0.0740 and $0.1494 - 0.0893$ (lys C_v) = 0.0601 respectively where the sum-up values $0.0740 + 0.0601 = 0.1341$ and correspondingly $0.0740 - 0.0601 = 0.0139 = 139$. Mutation is a process where hidden time can be escaped. These two values are balanced values or average values of met and trp where trp and met is differentiated by 6 or 0.0115.

Here, 1000 (a structural factor) - $341 = 660 = 814 - 154$ (factor of opposite) and met resultant values might be complemented by oxy-time since $0.1268 = 0.0660 + 0.0608$ (32) causing de-oxygenation and where $1268 - 900 = 368$ and polymorphic site ($72*0.0019 = 0.1368$) is in 0.0368 disposition needed for replication.

Mathematically, $1494 - 588 = 906$ (i.e. $900 + 6$) = $601 + 305$ (oxy-time) and $1342 - 588 = 754$ (val core values) and also 1646 (trp factor) - $906 = 740$. From genetic point of

view, $1494 - 814 = 680 = 340*2$ where $1341 - 1000 = 341$ and $1653 - 1493 = 160$ and also $240 - 87 = 153$ (factor of opposite) where $0.1494 - 0.1254 = 0.0240 = 240$. The core values of glu (0.1494) is such a values which falls at opposite of combined Hb S and Hb C mutations i.e. $0.1494 - (0.0740 + 0.0601) = 0.0153 = 0.0814 - 0.0661$ in the structure.

Structural Genetics:

Lunar time, $183 = 154 + 29$ and there are sub-divisions within it. The factor of opposite (154) can be complemented by negative electronic values ($27*0.0019 = 0.0513$) to a limit. The triplet values are $0.0513*3 = 0.1539(81)$ and $0.0551*3 = 0.1653$ (87) = 0.0850 (opposite values of electromagnetics) + 0.0803 (halved of lunar gravity) = $0.1254(66) + 0.0399(21) = 0.1463$ (77, a structural values) + $0.0190(10)$ which are differentiated by $0.1653 - 0.1539 = 0.0114(6)$ and interrelated. It is seen $1653 - 1380$ (i.e. $460*3$, would be electromagnetic expansion) = 273 (hotspot) and 354 (i.e. $1608 - 1254$) - $273 = 81$ in the structure. It is seen $0.3477 - (0.1539 + 0.1451) = 0.0487(tri)$ where $0.1539 + 0.1451 = 0.2990$ and $0.1539 - 0.1451 = 0.0088 = 88$ and 399 (AUG) + $88*2 = 575 = 0.3477 - 0.2902$ (electromagnetic values) where $0.2990 - 0.2902 = 0.0088$ in the structure and conversely $0.2990 - (850 + 327) = 1813$ (genetic values) where $1000 - 813 = 187$. The values 0.0399 (AUG) is a balanced point where $3477 - 399 = 3078 = 1539*2$ and $487 - 399 = 88$ and $399 - 327 = 72$ (polymorphic shrinking values). Again, $1254 + 327 = 1581$ (bisectional values) = $791*2$ where $1605 - 791 = 814$ and conversely $1368 + 487 = 1855 = 927*2$ (app.) where $813 + 114 = 927$. Considering 814 and 589 in the structure we get $160 + 114 = 274 = 137*2$ where $814 + 137 = 951$ (electro-magnetic values in opposite direction + 100) = $1088 - 137$ where $1000 - 88 = 912 = 304*3$ (oxy-time) and $814 - 137 = 677$ (trp factor) in the structure. Here, $814 = 407*2$ and $588 = 294*2$ where $137 + 40 = 177 = 354 / 2$ (i.e. $1608 - 1254 = 354$) and $407 - 137 = 270$ and also $407 + 137 - 193 = 351$ (gravitational values) makes the fundamental molecular structure $238^+.3059(161)$ or $270.3667(193)$, a bisectional stage. This may be called electro-gravitational complex.

In context of molecular structure 238.3059(161), $0.3477 - 0.3059 = 0.0418 = 0.1605 - 0.1187$ where $0.1000 - 0.0187 = 0.0813$ and conversely $0.3477 - (0.1605 + 0.1187) = 0.0685$ (halved of polymorphic site) in the structure. The system appears at bisection stage while $0.3667(193) - 0.3059 = 0.0608$ (oxy-time) i.e. $270.3667(193)$ and where $0.1368 + 0.0608 = 0.1976$ (met pre-transitional values) and correspondingly $0.1368 - 0.0608 = 0.0760$ where $0.0760 - 0.0100 = 0.0560$ and 0.1268 (met resultant values) - 0.0707 (met core values) = 0.0561 .

Again, $0.1159 + 0.0209 = 0.1368$ and conversely $0.1159 - 0.0209 = 0.0950$ (electromagnetic values + 100) in the structure where $418 - 67 = 351 = 1605 - 1254$.

The lunar time (183 or 0.3477) is comprises met (0.2831) and trp(0.0646) factors are derived from electro-gravitational processes since $0.1159(61) - 0.0513 = 0.0646$ and $0.2318(61*2) + 0.0513 = 0.2831$ where $61*3 = 183(0.3477)$ in the structure.

Considering methionine, it is seen $0.0551 + 0.0513*2 = 0.1577(83)$ to t-RNA factor (66) limit where $0.1254(66) + 0.1577 = 0.2831(149)$. In other respects, $0.0551 + 0.0513*3 = 0.2090(110)$ where $110 - 23 = 87$ that goes up to limit of polymorphic site (72) where $110 + 73 = 183$ (lunar time). The de-oxy-ribo-nucleotide tri-phosphate (avg. MW 487.0 g/mol) can be acted as complementation where $0.3477(183) - 0.0487 = 0.2990 = 0.1539 + 0.1451$ and $0.2990 - 0.0487 = 0.2503 = 0.1653 + 0.0850$. The structure is also linked to electromagnetic expansion where $1540 - 1380 = 160$ and $1540 - 690 = 850$ and correspondingly $(1540 + 1380) - 3477 = 557 = 551 + 6$ in the structure.

The met integer values $149*0.0019 = 0.2831 = 0.1451 + 0.1380$ and in opposite direction $0.1451 - 0.0357 = 0.1094 = 0.0547*2 = 0.0814 + 0.0280$ where $0.1254 - 0.0707 = 0.0547$. It is seen $0.1094 = 0.0560 + 0.0534(28)$ where $814 - 280(28*10) = 534$ and $160*10 - 1094 = 506 = 534 - 28$ and also $1654(87) = 1094 + 560(280*2)$ in the structure. From electro-magnetic point of view, $1254 - 404(\text{oxy-time} + 100) = 850$ and conversely $(1254 + 404) - 2902 = 1244 = 1254 - 10$ indicates 0.2902 or 2902 is a component lies into polymorphic site since $183 + 10 = 193$. Again, $0.2902 - 0.1534$ (i.e. $0.0850 + 0.0684$) = 0.1368 where $0.0814 - 0.0534 = 0.0280$ and $0.1094 - 0.0850 = 0.0244$ where $0.0404 - 0.0244 = 0.0160$ and $0.0404 + 0.0244 = 0.0684(36, \text{halved of polymorphic site})$ and also $0.2902 - 0.0684 = 0.2218 = 0.2318(61*2) - 100$ in the structure. Again, $850 = 814 + 36 = 814 + 684 = 1498(\text{in time form})$ where $2902 - 1498 = 1404$ and $2318 - 1404 = 914 = 814 + 100$ and correspondingly $1404 - 160 = 1244 = 1254 - 10$ in the structure. The resultant values of met = 0.1975 (met pre-transitional values) - 0.0707 (met core values) = 0.1268 = 0.1368(72) - 0.0100 and $0.1268 - 0.0560$ (bisection factor, $0.0280*2$) = 0.0708. In order to bisection processes the system should go to 0.0368 factors where $0.1268 - 0.0368 = 0.0900 + 0.0354$ (complemented) = 0.1254 where $0.1608 - 0.1254 = 0.0354$ indicates bisection processes occurs from lower level in association of methionine in this case.

Again, 0.01368(72) is a bisection arena should be linked to tryptophan. Here, 0.2057 (trp pre-transitional values) - 0.1615 (trp core values) = 0.0442 = 0.1380 - 0.0938 (p^+) where $0.2057 - 0.1380 = 0.0677 = 0.1615 - 0.0938$ and $0.0900 + 0.0677 = 0.1577(83) = 0.1026 + 0.0551$ where $0.1577 - 0.1369 = 0.0208 = 0.0308$ (i.e. $0.0154*2$) - 0.0100(difference of 100). It is seen $0.1026 + 0.0342 = 0.1368$ and $0.1026 - 0.0342 = 0.0684(\text{bisection of polymorphic site})$.

Again, $0.2318(61*2) - 0.1736(\text{about bisection of lunar time}) = 0.0582 = 0.1608 - 0.1026 = 0.1605 - 0.1023$, a position of bisection arises since lunar gravity would not be complemented by negative electronic values and bisects to '291' where $291*2 = 582$.

The bisection stage appears when the system appears at polymorphic site (0.1368) i.e. the system surpasses lunar time to earth-moon context (0.0368) and bisects to 0.0184 (lunar time). The rotational unit '0.0107' i.e. $0.0291 - 0.0184 = 0.0107$ infiltrates while the genetic system appears at

bisectional stage i.e. $0.0214 = 0.1605$ (15-rotations) - 0.1391 (13-rotations) would leads to 28-rotations ($0.2996 = 0.2990 + 0.0006$) on mutations in the structure.

There are structural interactions where $214 + 600 = 814 = 160*10 - 786$ (GGG + CCC), $1391 - 600 = 791 = 1605 - 814$, $1600 - 137 = 1463(77)$, $1391 - 137 = 1254$, $951 - 600 = 351 = 814 - 463 = 1605 - 1254$, $1605 - 1600 = 5 = 28(0.0532) - 23(0.0437)$ etc. where "1000" is a structural factor.

The 'factors of opposite' 154 and 6 also bisects in the structure $154 / 2 = 77 = 0.1463$ and $6 / 2 = 3 = 0.0057$ that aligned to genetic structure $814 = 407*2$ and $160 = 80*2$ where $77 + 3 = 80$, $814 - 463 = 351 = 271 + 80 = 407 - 56(3)$ and correspondingly $194 + 157(\text{i.e. } 154 + 3) = 351$. Structurally, 184 (lunar time) = $157 + 27$ and $1460 - 80 = 1380$ and also $1407 - 1380 = 27(0.0513) = 1463 - 950$ in the structure.

The methionine-tryptophan complex:

Towards transitions of methionine, $0.1391 + 0.0149 = 0.1540(81)$ and 0.2124 (met horizontal time) - 0.1540 = 0.0584 = 0.0684 (halved of polymorphic site) - 0.0100 and $0.0584 - 0.0370 = 0.0214 = 0.1605 - 0.1391$ where 0.1975 (met pre-transitional values) - 0.1605 = 0.0370 and getting two parallel system here that linked to anticodon. The values 0.1894 (tyr horizontal time) - 0.1187 = 0.0707 and $526 - 345$ (i.e. $460*3/4$) = 181 (tyr vertical time) where $0.1605 - 0.1078$ (thr pre-transitional values) = 0.0527 and $0.1000 - 0.0187 = 0.0813$. From electromagnetic point of view, $469 + 345 = 814$ and $1876 - 344 = 1532 = 1000 + 532(28)$ in the structure.

Considering tryptophan, $0.1605 - 0.1391 = 0.0214$ transits to 204 (trp vertical time) where 0.2057 (trp pre-transitional values) - 0.1690 (expansion factor) = 0.0367 would be linked to polymorphic site where $1690 - 1367 = 323 = 204 + 119(0.2261)$ and $0.1690 - 0.1605 = 0.0085$ (0.1615, trp core values). It is seen $1690 - 584 = 1106$ (met factor) and conversely $1690 - 1017(\text{trp factor}) = 673 = 690$ (i.e. $684 + 6$) - 17 where $1000 - 323(17) = 677$ (trp factor) in the structure. The tryptophan is associated with polymorphic site (0.1368) where $0.2057 - 0.1605 = 0.0452 = 452 = 214 + 238$ and 0.3876 (204) - 0.1368 = 0.2508 (i.e. $0.1254*2$). It is seen 0.2831 (149) - 0.0323 = 0.2508 and $0.2831 - 0.1368 = 0.1463$ (77) in the structure.

Again, $0.2057 - 0.1615 = 0.0442(\text{trp resultant values}) = 442 = 1380 - 938(p^+)$ where $1615 - 938 = 677 = 2057 - 1380$ in the structure.

The leucine-lysine-glutamine complex:

The pre-transitional values of leucine (131.1736) is $0.1736 - 0.0131 = 0.1605(\text{lunar gravity})$ but the transition would be implicated in electromagnetic interface where the pre-transitional values of lysine (146.1881) is $0.1881 - 0.0146 = 0.1735$.

Again, $0.2489(131) - 0.1605 = 0.0884 = 0.0881 + 0.0003$ while the horizontal time of lys is 0.1881 and also glutamine (146.1451) shows a structural biophysical chemistry.

Cancer co-linearity in G1849T V617F and G469T V157F:

The mutational values of G1849T or G469T = $151 - 126 =$

$25 = 0.0475 = 475$ that hitting the basic structure of genetics. The mutational value of V617F or V157F is 0.0754 (val C_v) $- 0.1235$ (phe C_v) $= -0.0481$. The negative mutational values would be added to respective molecular point in the structure i.e. $617 + 481 = 1098$ and $157 + 481 = 638$. The average or balanced position in these structural mutations are $1098 + 638 = 1736$ (about halved of lunar time) and $1098 - 638 = 460$ (expansion unit) and accordingly $1736 - 460 \times 3 = 358 = 353 + 5$ where 1605 (lunar gravity) $- 160 \times 10$ (genetic structural values) $= 5$ in the structure. The genetic points '1849' and '469' exists at upper and lower level in the structure i.e. $1159 + 690 = 1849$ and $1159 - 690 = 469$ ($938\text{-p}^+ / 2$) where $0.1159 \times 3 = 0.3477(183)$ and $690 = 460 \times 3 / 2$ and it is significant that $1876(938 \times 2) - 1849 = 27(0.0513)$. Now, $1849 - 754 = 1095$ (i.e. mutational values $- 3$) and $754 - 469 = 285$ and also $469 - 285 = 184$ (lunar time). The genetic point $1849 = 926 + 923$ where $923 - 285 = 638$ (mutational values) in structural mutation where $285 + 353$ (complementary values) $= 638$ and $353 = 285 + 68$ (i.e. $65 \times 0.0019 = 0.1235$, phe core values $+ 3$) and also $(926 + 353) - 1095 = 184$ in the structure. It is significant that the lower level '469' would also possess upper and lower level that might be developed conflicts resulting proliferation under mutations.

Mathematically, 1736 (upper level balanced point) $- 923 = 813$ and $813 - 460$ (lower level balanced point) $= 353$ which changes genetic structure $160 = 154 + 6 = 121 + 39$ to $160 = 107 + 53$ where $475 - 407$ (di) $= 68$, $407 - 53 = 354$ and $814 \times 2 - 1153 = 475 = 291 + 184$ and also in opposite direction $291 - 184 = 107$ that would be causing proliferation out of structural deformity.

Conversely, $0.1235 + 0.0754 = 0.1989$ where 0.1539 (81) $+ 0.1451 = 0.2990 = 0.1990 + 0.1000$. Under this mutation, it would be addition of electro-gravitational influx $0.0107 \times 28 = 0.2996 = 0.1605$ (15 rotations) $+ 0.1391$ (13 rotations) i.e. $0.2990 - 0.0114 = 0.2876 = 0.3876$ (trp204) $- 0.1000$ where $0.0886 + 0.0114 = 0.1000$. The system would go to

polymorphic site leaving $0.1254(66)$ where $0.0886 + 0.0481$ (mutational values) $= 0.1367$ and appear at bisecting platform.

In p53 protein the mutations V157F and F270L shows mutational values $- 0.0481$ and $+ 0.0482$ meets at a point (0.0963) where $0.1605 - 0.0963 = 0.0642 = 3 \times 0.0214$ and $0.1605 - 0.1391 = 0.0214$ and bisects. There should be existence of '154' and '6' factors of opposite where $270 - 157 = 113(6)$ and conversely $427 - 154 = 273$ and $427 + 154 = 581 = 481 + 100$ in the structure.

3. Conclusions

The lunar time may be called a strand where multiple activities raised towards equilibrium. The met-trp complex in lunar time are anti-parallel that are related to t-RNA ($66A^0$) and polymorphic site (72) differentiated by '6', a factor of opposite where methionine is associated with 0.1254 (66) while tryptophan is associated with polymorphic site (0.1368). The two factors of opposite '154' and '6' would be upper (+) and lower (-) level factors that can be bisected in the structure. For better understanding of cancer development we have to go through electro-gravitational complex where oxy-time is a key point. While our lunar time is associated with polymorphic site (earth-moon context), lunar gravity is a curious feature in biophysical chemistry.

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