

The Methionine and Structural Genetics

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Abstract Methionine has been implemented to go through the structural genetics. The genetics is basically electro-gravitational chemistry where molecular point possesses essential role. The polymorphic site and t-RNA distance of constancy factor are two essential components in the structure. The genetic suppression has been clarified to some extent for p53 tumor suppressor protein where lysine-tryptophan complex is significant.

Keywords De-oxy-nucleotide, Genetic suppression, Molecular point, Lysine, p53

1. Introduction

Methionine generally is an initiating amino acid of protein. Starting from methionine I shall enter into structural genetics. The genetics is basically electro-gravitational chemistry and the foundation stands on lunar gravity, lunar-terrestrial time (0.0368 curvature or $193 \times 0.0019 = 0.3667$ curvature) and electro-magnetics (0.1451 or 0.0425 in opposite direction). The basic structure is originating from 183 (0.3477, diameter of our moon) = $154 + 29(0.0551)$ where $0.0551 \times 3 = 0.1653 = 0.0839 + 0.0814 = 0.0803$ (halved of lunar gravity) + 0.0850 (electro-magnetic values in opposite direction) and $0.0551 - 0.0477 = 0.0074$ and $0.3000 - 0.2900$ (i.e. 0.1450×2) = $0.0100 = 0.0174 - 0.0074 = 100$. A systematic time difference of 0.0001-0.0002 has been found in many places will not be mentioned specifically in directional biology.

The processes are so organized that there is scope of doubling and bisection in the system. The t-RNA factor ($66^\circ = 0.1254$) and polymorphic site ($72 = 0.1368$) are components of structural genetics and would be anti-parallel that differentiated by $0.1368 - 0.1254 = 0.0114(6)$. The lunar gravity runs in opposite direction of electro-magnetic since $0.1605 - 0.1451$ (i.e. $0.0938 + 0.0513$) = 0.0154 (factor of opposite) [1]. The electro-magnetic values in opposite direction i.e. $0.0938(p^+) - 0.0513(e^-) = 0.0425$ significantly transit to $425 = 183 + 242$ where $242 = 121 \times 2$ and where $487 - 327 = 160 = 121 + 39$ in the structure. The average molecular weight (g/mol) of de-oxy-ribonucleotides are effective in structural genetics. The addition of avg. MW = $487.0 + 327.0 = 814.0$ and correspondingly the subtraction = $487 - 327 = 160 = 154$ (factor of opposite) + 6 (i.e. difference of polymorphic site-72 and t-RNA distance of constancy factor-66 = $72 - 66 = 6$) that can be shifted to 160

= $121 + 39$ where $39 \times 0.0019 = 0.0741$ according to formula $T(\text{time}) = 0.0019 \times M$ (integer mass) derived from 14.0267, an inter-amino acid factor somewhere.

The de-oxy-ribonucleotide triphosphate (avg. MW 487.0 g/mol) exists in opposite direction of proline codon (CCC) = $333 + 154 = 487$ where $487 - 44 = 443 = 222(CC) \times 2$ that can be applied to methionine (149.2124) structure where $149 + 29 = 177 = 111 + 66$. Although 0.0399 (AUG) is a structural component of methionine but another intrinsic structural component is $0.0399 = 0.0333(CCC) + 0.0066$ and correspondingly 0.0453(GGG) is a factor where $0.0453(GGG) + 0.0154 = 0.0607$ (oxy-time) and $0.0302(GG) + 0.0154 = 0.0456$ (GGG + 3). The addition of first two bases gives $0.0247(AU) + 0.0222(CC) = 0.0469$ (i.e. $p^+/2$, a hotspot genetic point G469) and the rest $0.0151(G) + 0.0111(C) + 0.0066 = 0.0328$ (mono-de-oxy-ribonucleotide) where $0.0328 - 0.0171 = 0.0157$ (molecular point, V157).

The DNA or protein expansion is an outcome of electro-gravitational chemistry and the expansion values is determined by molecular point in DNA and protein as well.

The values, $0.3477 - 0.2831(149, \text{met integer values}) = 0.0646$ (trp factor) = $0.575 + 0.0071$ and $0.2902 - 0.2831 = 0.0071$ and $0.3477 - 0.2902 = 0.0575$ and also $646 + 354$ (complementary factor) = 1000 in the structure where $0.1608 - 0.1254 = 0.0354$. Again, $575 - 184 = 391 = 851 - 460$ (expansion unit would have negative impact) and $0.0190(10) + 0.0171(9) = 0.0361$ and correspondingly $0.0190 - 0.0171 = 0.0019$ in the structure.

In lunar time ($0.3477 = 0.2831 + 0.0646$), both are bisectional factors where $0.2831 = 0.1451 + 0.1380$ (460×3 , expansion factor) or $0.1451 - 0.0357$ (119×3 , expansion factor in opposite direction) = $0.1094 = 0.0547 \times 2$ and where $0.1254 - 0.0707$ (met C_v) = 0.0547. Since $183 = 154 + 29(0.0551)$ an opposite factor exists within lunar time, the dual bisection of lunar time would occur under electro-magnetic interference since bisection would not happen until positive and negative segment do meets. Mathematically, $0.0354 + 0.0071 = 0.0425$

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(electro-magnetic values) where $0.0646 + 0.0354$ (i.e. $0.1608 - 0.1254$, complementary factor) = 1000 where $0.2902 (0.1451*2) - 0.2831 = 0.0071$ and $0.0646(34) - 0.0500 = 0.0146$ and $0.0500 - 0.0146 = 0.0354$ in directional biology. Again, 0.1415 (i.e. $0.2831/2) - 0.1000 = 0.0415 = 0.0425 - 0.0010$ (i.e. $0.0190 = 0.0184 + 0.0006$) and $149(0.2831) + 5 = 154$ and $0.0850(0.0425*2) - 0.0665(35 = 29 + 6) = 0.0185$. It is seen $0.1605 - 0.1415 = 0.0190(10)$ and $0.1615(\text{trp } C_v) - 0.1605 = 0.0010$.

Three factors 0.0646 (trp factor), 0.0547 (met factor) and 0.0446 (gln factor) found in the system where $0.0646 = 0.0323*2$ where $0.0323 = 323 = 204 + 119(0.2261)$. The met factor derived from $0.1254(66) - 0.0707 = 0.0547$ and glutamine (146.1451) shows pre-transitional values $0.1451 - 0.0146 = 0.1305 = 0.1605 - 0.0300$ and from electro-magnetic and lunar gravity context $0.0300 + 0.0146 = 0.0446$.

There are transitions like 0.0425 to 425 in the system, so decimals have been avoided somewhere.

2. Discussions

The core-values or hidden time of met = $149*0.0019 - 0.2124 = 0.0707$ and pre-transitional values = $0.2124 - 0.0149 = 0.1975(104)$. The scenario changes when 0.0149 is added to core-values = $0.0149 + 0.0707 = 0.0856(45)$ and bisects since $149*0.0019 = 0.2831 = 0.1415*2$. The values $0.1415 - 0.0855 = 0.0560 = 0.0532 + 0.0028$ where positive meets to negative and bisects. The difference, $0.1975 - 0.0707 = 0.1268 = 0.1368(72) - 100$ in the structure where $0.1268 - 0.0708 = 0.0560 = 0.1415 - 0.0855(45)$. The values 0.0560 (or, 28.0532) can be taken from cys (121.1590) where $121.1590 + 28.0534 = 149.2124$. Again, $121*0.0019 = 0.2299 = 0.1415 + 0.0884$ where $0.0884 = 0.0814 + 0.0070 = 0.894$ (lys core values) $- 0.0010$. The values, $0.0814 = 0.0487$ (tri) + 0.0327 (mono) and also the average values 0.0407 (di) is effective in the system.

From genetic point of view, 977 (i.e. $487*2 + 3) - 562 = 415$ and $1000 - 977 = 23 = 0.0437$ (in time form) where $438 + 562 = 1000$ (a structural values) and $1000 - 707$ (met core values) = 293 where $562 + 293 = 855$. Again, $0.0977 + 0.0707 = 0.1684 = 0.1000 + 0.0684(36)$, halved of polymorphic site) where $684 + 293 = 977$. It is seen $0.0855 - 0.0171 = 0.0684$ and 0.0874 (pro core values) $- 0.0190(10) = 0.0684 = 0.0977 - 0.0293$.

Again, $487 = 44 + 443$ where 443 is linked to 380 in a way $443 = 154 + 289$ where $289 + 91$ (about halved to lunar time where $183 = 91*2 + 1) = 380 = 425 - 45(0.0856)$ and the values '469' directly fall to '425' since $469 - 44 = 425$ and $469 + 425 = 894$ (lys core values). The expansion units 460 and 104 that would be negative impact where $1000 + 380 = 460*3$ and correspondingly $1045 = 855(45) + 190$ and $104 + 45 = 149$ where $460 - 312$ (i.e. $104*3) = 148$ avoiding decimals. The expansion unit can be derived from G1849T V617F and G469T V157F and from reciprocal mutations H168R and R273H.

The pre-transitional values of met = $0.1975 = 0.1605 + 0.0370$ and from bisectational point of view, $0.1975 = 0.1415 + 0.0560(0.0280*2)$. The lunar gravity is significantly linked to oxy-time ($32*0.0019 = 0.0608$) and also linked to polymorphic site where $0.1605 - 0.1368(72) = 0.0237$ and $0.0237 + 0.0370 = 0.0607$. It is seen $0.0370 + 0.0469 = 0.0839 = 0.0280*3$ and correspondingly $0.0839 + 0.0814$ (i.e. $0.0487 + 0.0327) = 0.1653(87)$ and $1000 - 840 = 160$ (i.e. difference of $487 - 327 = 160$) in the structure.

The electro-gravitational structure, 1876 (i.e. $938*2) - 1368(72) = 508 = 977 - 469$ (i.e. $938/2) = 608$ (oxy-time) $- 100$ and 0.1608 (i.e. $0.1605 + 0.0003) - 0.1254(66) = 0.0354 = 0.0508 - 0.0154$ i.e. lies in opposite direction where $117*3 = 351 = 354 - 3$ and $117*2 = 234$ where $0.1605 - 0.1368 = 0.0237 = 0.0234 + 0.0003$ and where 3 or 0.0057 is a complementary factor in the system.

The hotspot '469' is a bisectational point where $560 - 469 = 91$ (lunar time bisected) and correspondingly $560 + 469 = 1029$ (trp factor) where $1029 + 154 = 1183 = 100 + 57 = 157$ (hotspot, V157) in a suppressed form. It is seen $1381 - 469 = 912 = 304*3$ and 1735 (about halved to lunar time) $- 912 = 823 = 469 + 354$ in the structure.

Conversely, $1876 - 1254 = 622 = 469 + 153$ where $312(104*3)*2 = 624$ and where $912 - 623 = 289 = 840 - 551(29)$ in the structure.

The valine and lysine would be in opposite direction of met in different way since met codon is AUG while valine-GUA and lysine(AAA) $-$ met (AUG) = $405 - 399 = 6$ (would be values of opposite). It is seen $0.0803 + 0.0091 = 0.0894$ (lys core values) while $0.0803 - 0.0091 = 0.0712 = 0.0707$ (met core values) $+ 0.0005$ and 0.0754 (val core values) $- 0.0707 = 0.0047 = 47 = 0.0893$.

Measuring core values from $0.1254(66)$, $0.1254 - 0.0707 = 0.0547$ and $0.1254 - 0.0893 = 0.0361$ and $0.0547 - 0.0361 = 0.0186$ in lower level but $0.0547 + 0.0361 = 0.0908$ in upper level hitting the tryptophan where $0.0707 + 0.908 = 0.1615$ (trp core values) and $0.0707 + 0.0323$ (i.e. $0.0204 + 0.0119) = 0.1030$ (about halved of trp pre-transitional values). It is also associated with tyrosine (181.1894) since $893 - 707 = 186 = 181 + 5$ and $0.1894 = 0.1800 + 0.0094(5) = 0.1713 + 0.0181$ where $0.2261(119) - 0.0461(119)$, opposite direction) = 0.1800 .

From electro-magnetic point of view, $1876(p^+*2) - 893(\text{lys core values}) = 983 = 360 + 623$ and correspondingly $983 + 623 = 1606$ (lunar gravity) where $623 = 469 + 154$ (factor of opposite) shows system works from upper level to lower level and $1415 - 623 = 792$, a valine factor will be clarified later.

Again, $1876 - 1254(66) = 622$ and $1254 + 153 = 1407 = 1000 + 407(\text{di}) = 894 + 513$ and $1368(72) + 154 = 1522 = 2902$ (i.e. $1451*2) - 1380$ (electro-magnetic expansion, $460*3$).

The electron values exists in upper level i.e. $487 + 26 = 513$ (i.e. $27*0.0019 = 0.0513$) while expansion unit lies in lower level i.e. $487 - 27 = 460$ where $469 + 44 = 513$ and $560 + 47 = 607$ (oxy-time) and $560 - 47 = 513$ where $47*0.0019$

= 0.0893 (lys core values) and $487 + 513 = 1000$, an intrinsic structural values.

The genetic structure originates from basic structure $183 = 154 + 29$ where $0.0551 \times 3 = 0.1653 = 0.0803$ (halved of lunar gravity) + 0.0850 (i.e. 0.0425×2 , electro-magnetic values in opposite direction). As a result, 0.2902 (i.e. 0.1451×2) - $0.1653 = 0.1249 = 0.1254$ (66) - 0.0005. It is seen $0.1249 - 0.0446$ (i.e. 0.0223×2) = 0.0803 and $0.1249 + 0.0357 = 0.1606$ where $357 = 119 \times 3$ and $119 = 100 + 19(0.0361) = 0.0461$ (expansion unit would be having negative effect) and $461 - 104$ (expansion unit) = 357. The system works from electro-magnetic upper level '1876' to lower level '469' where $1876 - 223 = 1653(87)$ and $1653 - 623 = 1030$ (about halved of trp pre-transitional values).

It is seen for valine, $0.1469 + 0.0117 = 0.1586 = 0.0793 \times 2$ where $0.0977 - 0.0184$ (lunar time in opposite direction) = 0.0793 since $117 + 66 = 183$. Mathematically, $793 - 57(3) = 736 = 1736$ (about halved of lunar time) - 1000 and $793 + 1083(57) = 1876(p^+ \times 2)$ in the structure. Interestingly, $0.0370 + 0.0253 = 0.0623 = 0.0469 + 0.0154$ that measured pre-transitional values from level of lunar gravity of met and val. It is seen $0.0469 - 0.0285$ (mutational values, C843T) = 0.0184 and correspondingly $0.0469 + 0.0285 = 0.0754$ (val core values) and the mutational values calculated from $0.1368(72) - 0.1083(57) = 0.0285 = 0.0351 - 0.0066$. It is seen $117 \times 0.0019 = 0.2223 = 0.1586 - 0.0637$ where $0.0637 + 0.0154 = 0.0791$.

The above describes electro-gravitational chemistry of genetics to some extent where expansion and tryptophan also are structural components. The electro-magnetic values in opposite direction would be of gravitational characteristic.

Mathematical interpretation of G1849T V617F mutation and SCA:

While the met values 0.0547 meets to 0.0391 it bisects i.e. $0.0547 + 0.0391 = 0.0938(p^+) = 0.0469 \times 2$ and the values of difference, $0.0547 - 0.0391 = 0.0156(V157) = 0.0312$ (expansion values)/2 and can be applied to G1849T V617F. Considering expansion values $460 \times 3 = 1380 = 690 \times 2$ and $690 = 617 + 73$ (polymorphic site) = 684 (halved of polymorphic site) + 6 and $1368(72) - (690 + 617) = 61 = 66 - 5$.

There are analogical system in trp (204.2261) and glu (147.1299) like $0.1605 - 0.1152$ (glu pre-transitional values) = $0.0453 = 0.2058$ (trp pre-transitional values) - 0.1605 that measured from lunar gravity. The mutations glu6val and glu6lys in Hemoglobins gives mutational values 0.1494 (glu C_v) - 0.0754 (val C_v) = 0.0740 and $0.1494 - 0.0893$ (lys C_v) = 0.0601 where $740 - 601 = 139$ and $740 + 601 = 1341 = 1646$ (trp factor) - 305(oxy-time) causing de-oxygenation to

complement where $1646 - 1415 = 231$ (halved of expansion factor) and $323 - 139 = 184$ and also $462 - 139 = 323$ in the structure.

Genetic suppression:

Genetic suppression for p53 tumor suppressor protein has been measured from molecular point 139-lys where $139 = 67 + 72$ and where polymorphic site and t-RNA factor have been coincides causing block proliferation. Lysine (146.1881) is a significant amino acid where lunar gravity, lunar time and electro-magnetic values are closely exists. The glutamine (146.1451) and leucine (131.1736) shows $146 - 131 = 15 = 0.0285 = 0.0154 + 0.0131$ and $0.1882 - 0.1451 = 0.0431 = 0.0425 + 0.0006$ and $0.1882 - 0.1736 = 0.0146$. The molecular point-139 exists about middle where $131 + 8 = 139 = 146 - 7$ and lysine core values (0.0893) is significant since $0.0893 - 0.0285 = 0.0608 = 0.0469 + 0.0139$ and $0.0469 + 0.0424 = 0.0893$. The values $0.1876 - 0.1368 = 0.0508 = 0.0254 \times 2$ where $0.0254 + 0.0139 = 0.0393$ and $0.0508 - 0.0394 = 0.0114(6) = 0.1368 - 0.1254$.

The genetic suppression of p53 tumor suppressor protein can be evaluates from molecular point of lys-trp complex. It is seen $0.1615(85, \text{trp core values}) - 0.1254 = 0.0361(19) = 0.1254 - 0.0893(47, \text{lys core values})$. The trp is found in molecular points 23, 53, 91 and 146 in p53 protein while I shall consider 139, 321 for lysine. It is seen $72 + 19 = 91$ and $72 - 19 = 53$ indicates 0.1254(66) takes the position of polymorphic site. Again, $47 + 6 = 53$, $85 + 6 = 91$ and 323 (trp factor, $204 + 119 = 323$) - 321 = 2 = 0.0038 shows 0.0361 suppressed to 0.0019.

3. Conclusions

The methionine structure has been drawn from genetic point of view associated with tryptophan while two bisectonal segment part of lunar time. Apart from methionine codon (AUG) an intrinsic structural component has been found differently read also linked to molecular or genetic point. There are genetic suppression and anti-parallel moving makes the system somewhat complicated. The genetic suppression described might be helpful for further development.

REFERENCES

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