**Your name-**

**Institute-**

**Country-**

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**Quiz- Pls select the right answer**

1. What is an important function of vitamin D3?
2. Modulating iron metabolism
3. Modulating potassium metabolism
4. Modulating calcium metabolism
5. Modulating sodium metabolism
6. What kind of catalytic activity of P450Vdh is required for activation of vitamin D3?
7. epoxidation
8. dealkylation
9. hydroxylation
10. methylation
11. What is cyclodexitrins ?
12. polypeptide
13. oligosaccharide
14. DNA
15. glycochain
16. Which cyclodextrin is most effective for activation of vitamin D3 ?
17. -CD
18. -CD
19. -CD
20. PMCD
21. What is nisin?
22. antimicrobial agent
23. cytokine
24. phytohormon
25. protease
26. What does nisin improve in bioconversion of vitamin D3 ?
27. Permeability of vitamin D3
28. Solubility of vitamin D3
29. Stability of P450vdh and its redox partner
30. Cell viability
31. What is disadvantage of Vdh-K1 mutant in bioconversion using nisin-treated cells
32. Low affinity to redox partner
33. Enzymatic activity
34. Structural stability
35. Side reaction
36. Which region is Vdh-T107A mutated ?
37. Active site
38. BC roop
39. FG roop
40. Ferredoxin binding site
41. What are critical points for bioconversion by using nisin-treated cells ? Choose incorrect one.
42. Protein stability
43. Permeability of substrates to cytoplasm
44. Cell lysis
45. Cell viability
46. Are you interested in microbial conversion after this talk?
47. Yes
48. No