

The Principles and Mechanisms of Protons Beam Tumor Therapy

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Abstract: giving a new explanation of the essence of protons beam tumor therapy

Main viewpoints and conclusions:

Different from the other types of particles beam tumor therapy, the essence of protons beam tumor therapy is to change the internal structure, the proportion of positive and negative charges even acid-base character of the diseased organ cells, but not to kill the associated tissue cells of the diseased organ.^{[1][2]}

The protons into and stay at the diseased organization, means the proportion or called concentration of the protons (positive charges) within the diseased organization has been increased; same time, also means the proportion or called concentration of the electrons (negative charges) within the diseased organization has been decreased, and equivalents some electrons of the diseased organization have been released.^{[3][4]}

References

[1] *Tumor*

<https://en.wikipedia.org/wiki/Neoplasm>

[2] *Proton beam therapy*

https://en.wikipedia.org/wiki/Proton_therapy

[3] *Brönsted-Lowry acid-base theory*

https://en.wikipedia.org/wiki/Br%C3%B8nsted%E2%80%93Lowry_acid%E2%80%93base_theory

[4] *Lewis acid and base theory*

https://en.wikipedia.org/wiki/Lewis_acids_and_bases

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