

REVIEWER'S REPORT

Manuscript No.: IJAR- 58484

Title: Computational study on protein interactions of CDKN2C and its impact on cancer studies.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality	Excellent			
Clarity	Excellent			
Significance	Excellent			

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

1. The CDKN2C protein (also known as p18-INK4c) acts as a strict brake on cell division. It belongs to a group of proteins that stop cells from growing and dividing too quickly.
2. CCND1 is a gene that gives instructions to make cyclin D1, a protein that controls when cells divide. It acts like the green light for a car, telling cells to grow and multiply. When it mutates or multiplies too much, it can cause cancer.
3. Osteosarcoma is the most common primary bone cancer, originating in the cells that form bone tissue. It primarily affects children, teens, and young adults, frequently developing in the long bones of the arms and legs near the knees or shoulders.
4. Multiple myeloma is an incurable but highly treatable blood cancer that develops in the plasma cells of the bone marrow. When these cells become malignant, they crowd out healthy blood-forming cells and secrete an abnormal M-protein that damages bones, weakens the immune system, and strains the kidneys.
5. G1 phase arrest is a cell's temporary or permanent pause before copying its DNA. The cell stops in the G1 (Growth 1) phase to

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prevent the replication of damaged DNA. This pause lets the cell fix mistakes or halts dangerous, mutated cells from dividing.

6. Gene co-expression refers to the simultaneous measurement or observation of multiple genes being active at the same time. It can refer to the simultaneous artificial expression of multiple genes in a host cell (like *E. coli*) to build pathways, or to natural gene expression patterns across tissues where groups of genes rise and fall together in response to biological conditions.
7. A computational study uses powerful computers and software to solve complex problems. It acts like a virtual laboratory. Instead of mixing chemicals in real life, scientists run math models on a computer to test ideas. This saves time and money.
8. Cancer studies, or clinical trials, are research tests designed to find better ways to prevent, find, and treat cancer. These studies test new drugs, diets, or therapies to see if they are safe and work better than current options. Every standard cancer treatment today started as a trial.
9. Key words are good.
10. Pictures with values are significant
11. Summary points also be added.
12. References should be with alphabetical order.
13. After a small changes good to publish in your journal.