NEW Pathway For Future Cancer Research

Receptor Sites CD81 And CD39 Provide Major Discovery

Smart Sugars Lesson #82

by JC Spencer

Recent university research programs provide us with new discoveries in glycoscience. Receptor sites have various functions in cell to cell communication.

Corrupted signals from CD81 receptors work with CD38 receptors (both on cell surface) to become the major culprits to spread tumors. CD81 and CD38 signals are not just instructing cancer cells to metastasize but, are actually training the cancer cells by supplying some cell body parts.

This is the first report that indicates cancer cell activity is somewhat like that of a virus when it requests another cell to provide its DNA to reproduce another virus. A recent study about this bad information appeared in the journal *Cell*. Why would "normal cells" cooperate to spread cancer?

When normal cells are truly healthy, the body has a good immune system that summons macrophages and killer T-cells to the battle front to take on the cancer cells head on. When normal cells are not healthy, their communication becomes corrupted. Healthy cells convey a clear message through a well-modulated immune system to the macrophage for protection. That protection system summons help to kill the enemy, repair the damage, and carry out the trash. When the immune system is weak, it is unable to defend the cells. When the immune system is over-stimulated, an auto-immune system may prevail where the cells turn on themselves.

Scientist are learning that glycoprotein receptor sites (CD81 example) contain massive amounts of information, not just a few words, but a collection of instructions. The normal cells and the cancer cells engage in a dialogue. CD38 is involved in apoptosis (programming a cell to die instead of divide) and must serve as a co-receptor to induce signaling within the cell. CD38 is known to be associated with T-killer cells. The message should be, "Kill the cancer cell." Instead, the instructions may be, "Kill the (blank) cell." The corrupted message spreads faster than truth where the innocent are blamed and the "normal" are destroyed.

M.D. Anderson Cancer Center in Houston studied CD81 and was able to decrease its expression. While this is remarkable science, we should do all we can to make the cells healthier and proliferate glycoprotein receptor sites which we have learned reduces inflamation and causes growth of new stem cells which are designed to repair damage. Healthy receptors make for healthy cells and healthy cells make for a healthy body.

Coming to mainstream medical diagnostics is the means of monitoring glycoprotein receptor sites on the surface of cells. Most FDA-approved cancer biomarkers are already glycoproteins.

Classical oncology research has sought ways to kill or stop cancer cells. Researchers believe that to inhibit CD81 signals may be the new pathway for cancer treatment. Now, with the new found CD81 knowledge, billions will be spent on research and development of new drugs in an effort to silence the CD81 receptors.

Turning off CD81 so it will not send bad signals, may also silence it from sending good signals. Why not research how to instruct CD81 to send the correct signals instead of corrupted signals?

I think we know how to program the CD81 receptors to send the correct signals instead of corrupted signals. Somebody give us a grant to correct the CD81 signals and perhaps together we can change the world.

www.GlycoscienceNEWS.com

Expand Your Mind - Improve Your Brain
http://www.endowmentmed.org/content/view/826/106/

Change Your Sugar, Change Your Life
http://DiabeticHope.com

Smart Sugars Lesson #82
http://www.endowmentmed.org/pdf/SmartLesson82

http://EzineArticles.com/?expert=JC_Spencer