

## 4<sup>th</sup> International Conference on

# Orthopedics & Rheumatology

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### Role of supplements and growth factors in success of stem cell and PRP treatments

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The success of stem cell and PRP treatments depends many times on the condition of the extra cellular matrix. The condition of the matrix can have enormous implications on success or failure on Regenerative Medicine procedures. The matrix is many times a hostile environment of the stem cells. This hostility results in a large percentage of the stem cells (sometimes greater than 97%) perishing. This matrix can many times be manipulated to allow a greater percentage of stem cells surviving. This manipulation can be accomplished by the judicious use of certain supplements, cytokines and other modalities such as micro electrical stimulation and laser use. This talk will center on the use supplements, antioxidants and other modalities. The discussion will also center on free radicals and their mechanisms of causing damage on a cellular level. Also discussed will be certain cytokine pathways which have a direct effect on many orthopedic conditions.

#### Biography

Joseph R Purita is Director of Institute of Regenerative and Molecular Orthopedics in Boca Raton, Florida. The Institute specializes in the use of Stem Cells and Platelet Rich Plasma injections. He is a pioneer in the use of Stem Cells and Platelet Rich Plasma. The Institute has treated some of the most prominent professional athletes from all major sports in both the USA and abroad. He received a BS and MD degree from Georgetown University. He is board certified in Orthopedics by ABOS. He is a Fellow American College of Surgeons, Fellow American Academy Orthopedic Surgeons, and a Fellow American Academy of Pain Management. He is also certified in Age Management Medicine. He has lectured and taught extensively throughout the world on the use of Stem Cells and Platelet Rich Plasma. He has been instrumental in helping other countries in the world establish guidelines for the use of Stem Cells in their countries. He has been invited to lecture on these techniques throughout the World as a visiting Professor.

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