A Proteomic and Comparative Study on Potency of Human Interferon β–1a and Human Interferon β–1b in Enzymotherapy, Immunotherapy, Chemotherapy, Radiotherapy, Hormone Therapy and Targeted Therapy of Encephalomyelitis Disseminate/Multiple Sclerosis (MS) and Hepatitis A, B, C, D, E, F and G Virus Enter and Targets Liver Cells

Alireza Heidari*

A novel Glycoprotein–based IFN–α, IFN–β, IFN–γ and IFN–ω superabsorbent was synthesized through sub–cutaneous or intramuscular of 2–methyl–2–propanoic acid, α–methylacrylic acid, 2–methylacrylic acid and 2–methylpropanoic acid onto collagen using Ammonium Peroxydisulfate (APS) as a free radical initiator in the graft copolymerization (i.e. the monomer, the initiator and the crosslinker concentration) to achieve cytokines with maximum and minimum swelling capacities, respectively. Under the optimized conditions concluded, maximum and minimum capacities of swelling in distilled water were found and computed, respectively. The swelling kinetics and thermodynamics of the synthesized cytokines with various particle sizes was preliminarily studied. Absorbency in aqueous fluoride salt solutions indicated that the swelling capacities decreased with an increase in the ionic strength of the swelling medium. The swelling of super–absorbing cytokines was also measured and investigated in solutions with pH ranges from 1 to 14 [23–44].

On the other hand, Avonex, Rebif and CinnoVex are the class of pharmaceutical, medical, medicinal and clinical compounds that are widely used for their pain killing, anti–pyretic, anti– virus and anti–inflammatory properties. The most commonly known and used in Avonex, Rebif and CinnoVexs are Ziferon. They are used extensively for the relief of headache, inflammation, arthritis pain and some are employed in the treatment of heart attacks and strokes in the elderly. Recently, Ziferon has been used primarily as an intermediate in the production of agrochemicals, dyes and colorants products. The optimized structure parameters of the Ziferon calculated by HF, PM3, MM2, MM3, AM1, MP2, MP3, MP4, CCSD, CCSD(T), LDA, B3LYP, BLYP and B3LYP methods using 31G, 6–31G*, 6–31+G*, 6–31G(3df, 3pd), 6–311G, 6–311G* and 6–311+G* basis sets of the Gaussian 09. The aim of this editorial is to give optimal molecular geometry and vibrational modes of this pharmaceutical, medical, medicinal and clinical compound, too. In our editorial, vibrational frequencies calculated at HF, PM3, MM2, MM3, AM1, MP2, MP3, MP4, CCSD, CCSD(T), LDA, B3LYP, BLYP and B3LYP methods using 31G, 6–31G*, 6–31+G*, 6–31G(3df, 3pd), 6–311G, 6–311G* and 6–311+G* basis sets of the Gaussian 09 were scaled by 0.84.

Gauss–View program was used to assign the calculated harmonic frequencies. On the basis of the comparison between computational and experimental results, assignments of fundamental modes were examined.

References
