

# The Radioactivity-Magneto Radio Frequency-Activated Nano Excitations In Quality Growth Medicinal Plants

R. SWARUP \*

U. P. Technical University, Lucknow & AICTE, New Delhi.

**ABSTRACT :** The plants developed with the disease fighting inherited natural character on the basis of specific chemical condensations are called 'medicinal plants'. The drug potential of the medicinal plants however, is restricted with the limited concentrations of chemicals responsible for disease curing character. Making use of this criteria our experts in medical sciences developed the modern medicines as the dense concentrations of disease fighting chemical drugs either by chemical synthesis or extracting from the medicinal plants. Now, since such chemical condensations are not natural, hence they decay with time. In order to make the modern medicines sustainable, an extra combination of chemicals is artificially attached, hence their expiry date is elongated a bit. Since this extra attachment of chemicals is not natural, that is why the allopathic medicines become time barred and imposing side effects on the patients treated with these medicines. An attempt is being made to enrich the medicinal plants with the disease fighting chemicals having their grown up medicine-index (MI) under Radioactivity Magneto-Radio-Frequency (MRF) interactions activating nano-excitations in these species. The nano-structurings in medicinal plants had been experimentally confirmed by trans-conductance second derivative peak structures using their magneto-potential records under Radioactivity & MRF-perturbations. Radioactivity-MRF-Nano excitations on medicinal plants *Aloe Vera*, *Catharanthus Roseus* had grown up their medicinal index (MI), 11 & 8 times greater respectively.

**Key words :** Radioactivity, Magneto Radio Frequency, Nano-Excitations, Medicinal index, Chemo-ionic

## INTRODUCTION

*Aloe Vera* i.e. Gwar Ka Patha (Hindi) is well known medicinal plant widely used as tonic as well as in curing a large number of diseases showing growth inhibitor effect in certain human tumors<sup>1</sup>. The various physical interactions apart from the usual traditional ways of fertilizations, irrigation facilities, weeding processes, crop rotation etc. on the specific soil texture and structure choice had been tested to improve the medicinal quality of *Aloe Vera*. The magneto-radio-frequency (MRF) and radioactivity stimulations seems to be one of the most appropriate interactions in elevating the medicinal value of *Aloe Vera* by appropriate optimization of the desired bio-chemical recombinations. A variety of chemo-ionic condensations could be made time dependent but well controlled under radioactivity-magneto-radio-frequency activations in various sections of medicinal plants in a radiative manner instead of conventional conductive and convective agro-chemic ways. The non-linear dynamic magneto-transport along with the tuber yield and nutritional quality (P & K) in potato (*Solanum Tuberosum L.*) grown under dual combination of chemical fertilizers and coal smoke the pollutants had been obtained. The nano-structurings

in medicinal plants had been experimentally confirmed by trans-conductance second derivative peak structures<sup>8</sup> using their magneto-potential records under Radioactivity & MRF-perturbations.

## Theory & Experimental Analysis :

The transverse deviations of electrically charged carriers over solids carrying x-directional longitudinal current  $i_x$  under the influence of magnetic field in z-direction  $H_z$  develops the electric field  $E_y$  in the y-direction i.e. direction perpendicular to both resulting in Hall potential<sup>9</sup> ( $V_H = E_y d$ ) in the name of investigator E.H.Hall, the phenomenon called the 'Hall-Effect' where d is the separation between y-electrodes and b the separation between longitudinal current carrying x-directional electrodes. The radio-frequency signal using RF-generator is applied at an angle  $\sim 45^\circ$  to x-y directions and this Hall-probe kept in the high magnetic field and whole of this installation with digital detectors and constant current source in 'Keithley pattern' is called the magnetodynamic spectrometer. The Hall potential may be written as;

$$V_H = R_H i_x (Hz/b) \quad (1)$$

Where the current density  $J_x = i_x/bd$  and  $R_H$  the Hall coefficient may be equated as follows;

\* Director, D.S.Institute of Technology & Management Ghaziabad.

$$R_H = 1/c \{ \frac{\sum (n_i^+ q_i^+ \mu_i^{+2}) - (n_i^- q_i^- \mu_i^{-2})}{\sum \{ (n_i^+ q_i^+ \mu_i^+ + n_i^- q_i^- \mu_i^-)^2 \}} \} \quad (2)$$

Where  $n_i^+$  and  $n_i^-$  are the electrical carrier density of positive and negatively charged carriers (electrons, ions, zwitterions, holes...) having the electrical polarity  $q_i^+$  and  $q_i^-$  along with their mobilities  $\mu_i^+$  and  $\mu_i^-$  respectively, which may be given as;

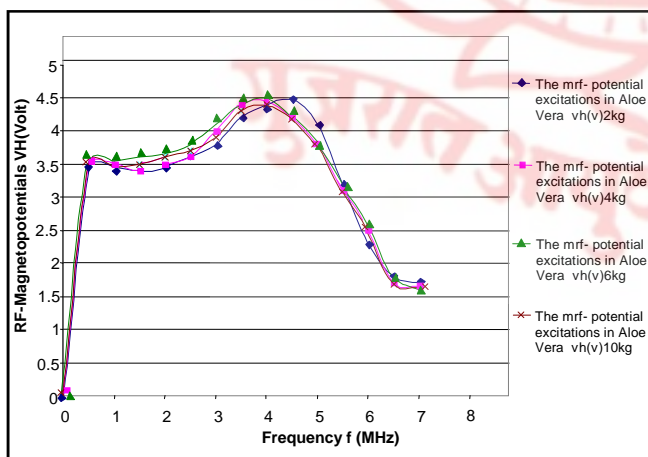
$$\mu = c [ R_H ] \delta \quad (3)$$

where  $c = 3 \times 10^{10}$  a numerical constant and  $\delta$  the electrical conductivity.

The electrical conduction processes both with the dc as well as the low and high radio-frequency ac have recently been studied<sup>2</sup> in ion conducting doped crystals, glasses, polymers and amorphous semiconductors to observe their electrical and magneto-conductivity. The nonlinear and chaotic oscillations in these materials<sup>3,4</sup> under the influence of transverse magnetic field H namely the dynamic Hall-Effect<sup>5</sup> had been extended to study the medicinal plant<sup>6</sup> and *Aloe Vera*. The rectangular sections on each leaf or stem section are taken on medicinal plant and attached to six probe Hall geometry, the electrodes each of radius  $r=0.075$  cm in contact with the separations  $b=2.5$  mm and  $d=3.0$  mm. The experimental results had been recorded as follows;

**RESULTS**

**FIGURE NO. 1 : MRF-ACTIVATED NANO-MEDICINAL VALUE OF ALOE VERA :**



This figure-1 represents the nano-medicinal value growth of *Aloe Vera* in terms of oscillatory magneto-potential records under radio-frequency excitations having peak values near  $f=1$  MHz and  $f=4.5$  MHz and the lowest value beyond  $f=6.5$  MHz at all H.

**FIGURE NO. 2 : RADIOACTIVITY-MRF GROWN UP NANO-MEDICINAL VALUE IN ALOE VERA :**

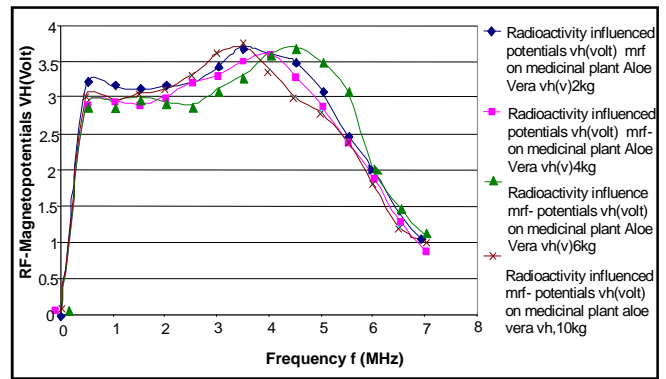


Figure-2 represents the nano-medicinal value growth in Alloy Veera with MRF and radioactivity due to alpha particle source radionuclide  $^{241}_{98}\text{Am}$  doze 100mC, exposure time 10 minutes. The peak value and the lowest value trends are similar to figure-1 except that their magnitudes are suppressed indicating the enhancement in the chemo-ionic concentrations elevating further the medicinal values.

**FIGURE NO. 3 : RADIOACTIVITY-MRF-ELEVATED NANO-MEDICINAL SPEED VALUE IN ALOE VERA :**

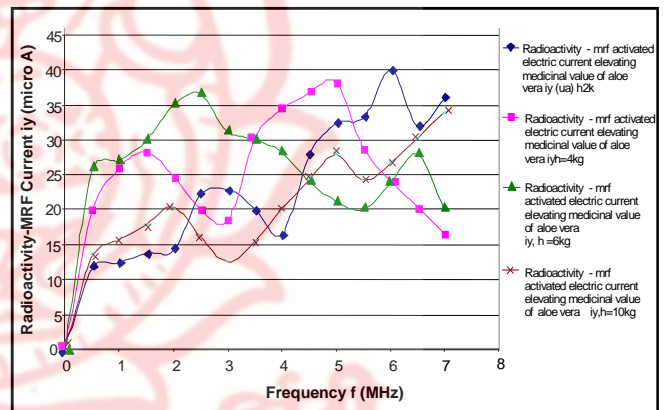


Figure-3 represents the radioactivity-MRF-elevated nano-medicinal speed value in *Aloe Vera* in terms of transverse current  $I_y(\mu A)$  stimulations under these excitations, speed in the sense of quick flow of disease fighting chemo-ions in the shape of these currents. One may note that these curves having oscillatory nature identical to those MRF-curves Fig.6 without radioactivity looks suppressed revealing fastening in the medicinal effect in cure. One may note that the nano- medicinal speed value in medicinal plants could be elevated using magneto-radio-frequency (MRF) and radioactivity perturbations. The growth increase in the chemo-ionic density condensation in the shape of tablets or injections is the approach of allopathic medicines, where as the disease fighting ionic mobility growth by increasing dilutions being the approach of homeopathic medicines (being most effective at infinite

delusions imposing infinitely large degree of freedom to the disease fighting chemicals in the ionic shape), both of these characters become observable while consolidating the medicinal values/ food values in plants, the natural habitat of the environment conserving it's purification for animal survival.

FIGURE NO. 4 : RF-NANO-HALL VOLTAGES ON ALOE VERA :

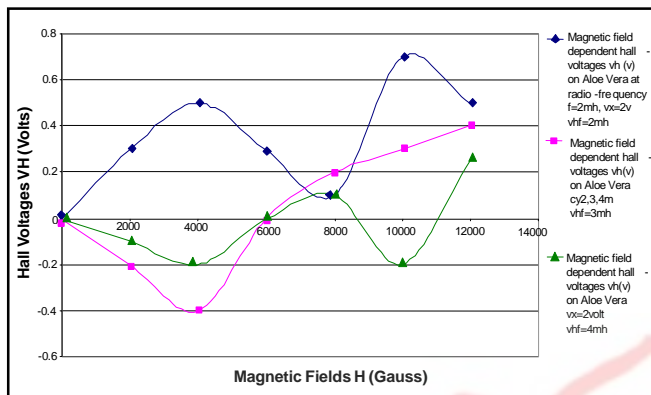


FIGURE NO. 5 : RF-NANO-HALL VOLTAGES ON ALOE VERA :

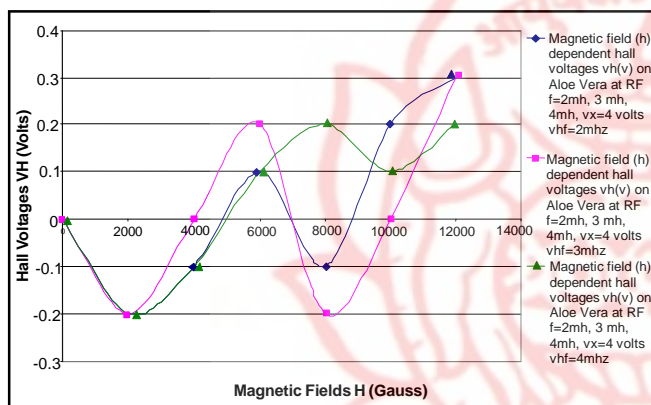
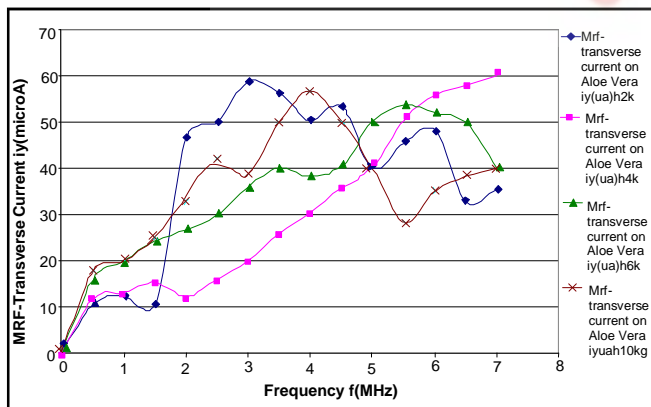


Figure-4 and Figure-5 are representing Hall voltages at magnetic field H=4000 Gauss at longitudinal Voltage v<sub>x</sub>=2 Volts and 4 Volts for radiofrequencies (f) equal to 2MHz, 3MHz and 4MHz respectively both having identical oscillatory trends. The Hall potentials maxima and minima are suppressed with the increase of v<sub>x</sub>.

FIGURE NO. 6 : MRF-ACTIVATED NANO- MEDICINAL SPEED IN ALOE VERA :



DISCUSSION & CONCLUSION

The computation of our experimental observations shows the chemo-ionic density n<sub>H</sub>~10<sup>12</sup> electrical carriers per cc, relaxation times τ~10<sup>-6</sup> sec. and mobility μ ~25000cm<sup>2</sup>/volt-sec. The calculation of half widths at various resonance peaks (Δū)<sub>1/2</sub>=qH/Mc yields the charge (q) and mass (M) ratio q/M for any ion participating in the various electrical as well as the magneto conductivity under above interactions with the medicinal plants. The division of q/M ratio with the specific charge e/m i.e. the charge (e) and mass (m) ratio of electron yields the nature of ion participating in the nano medicinal activity in Aloe Vera. All such ionic movements in medicinal plants could be derived by using periodic table with mono valent, divalent and trivalent characters associated with ions actively participating under these excitations. The gross computation of all the above experimental observation on medicinal plant Aloe Vera shows the effective chemo-ionic participation to it's nano-medicinal activity belong to As, Li, Be, Br, C, B, Na, Mg, Al, Ca, Ar, Se, Hg, Au, Ag, Li, Pb, As, Si, Os, Mo. some of which looks the trace elements associated with inner organs of human body and the other utilized in modern allopathic, homeopathic as well as ancient Ayurvedic medicines.

It is observed the pronounced changes in the magneto-potential as well as the magneto-currents, Hall voltages depicted in above figures (1-6) influencing the nano-medicinal character in medicinal quality improvement all with changing magnetic field, radiofrequency and radioactivity exposures tremendously varying the electrical carrier density i.e. the number of charged particles in the shape of electrons, ions, holes, zwitterions etc. along with their mobility to make safe and quick control of diseases and thus proposing optimized dosage in biological growth and curing of creatures due to nano-excitations in plants employing Radioactivity-MRF-Switching. The chemo-ionic (concentration and mobility) amplification factor namely Medicinal-Index (MI) defined as the ratio of these entities in the medicinal plant samples under radioactivity-MRF with respect to the control sample without radioactivity-MRF comes out to be nearly 11 in Alloy Veera and 8 in Catharanthus Roseus.

Acknowledgement :

The inspirations from Prof. K.C.Singhal, Vice Chancellor, NIIMS University Jaipur, advisor WHO and Ex-Head, Department of Pharmacology, J.N.Medical College, Aligarh Muslim University, Prof. D.R.Khanna, Head Department of Environmental Sciences, Gurukul

