**Quantitative assessment of degradation, cytocompatibility and *in vivo* bone regeneration of silicon incorporated magnesium phosphate bioceramic**

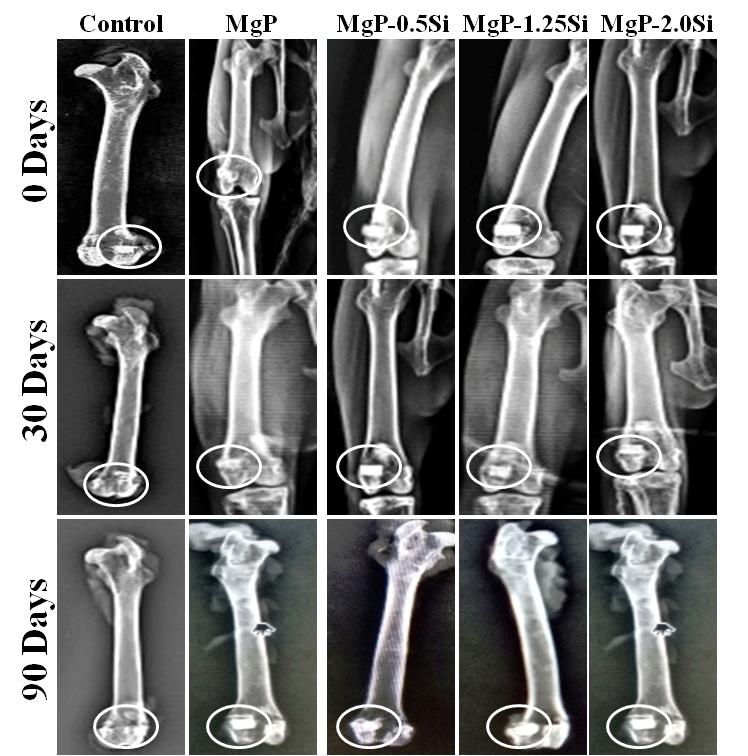
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**FIG.S1.**EDS patterns of magnesium phosphate containing various amount of silicon dopant, (a-d) before immersion and (e-h) after immersion in SBF for 8 weeks.



**FIG.S2.** X-ray radiographs of undoped and Si-doped MgP for various time interval (White circle showing the defect site).



**FIG.S3.**Representative SEM images of bone-implant interface of undoped and Si doped MgP after 30 days and 90 days of implantation. Red arrow-showing the interface between the bone and the implant. (Scale bar =100µm)