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APPENDICES

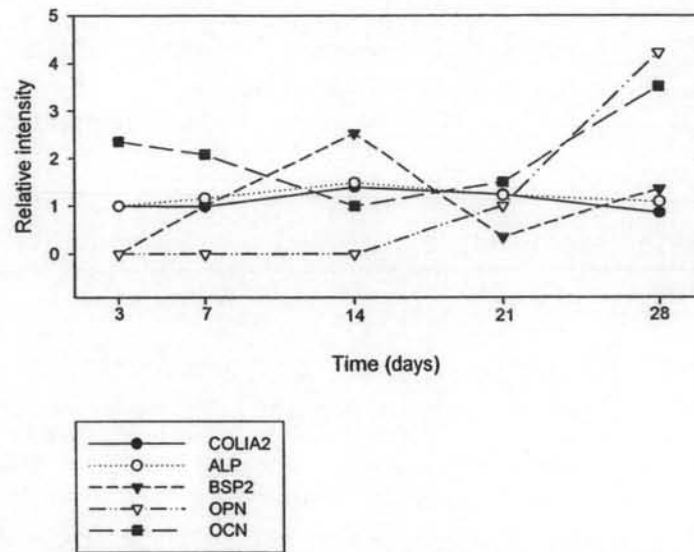


Figure 21. Semi-quantitative RT-PCR of bone markers in HOB2. Cells were plated in 60-mm culture dishes. RNA was extracted at days 3, 7, 14, 21 and 28. The band intensities of the RT-PCR products for BSP were measured and normalized to GAPDH as the internal standard. The relative intensity was calculated as ratio of the intensity of each time point to the lowest detected intensity or the intensity at day 3.

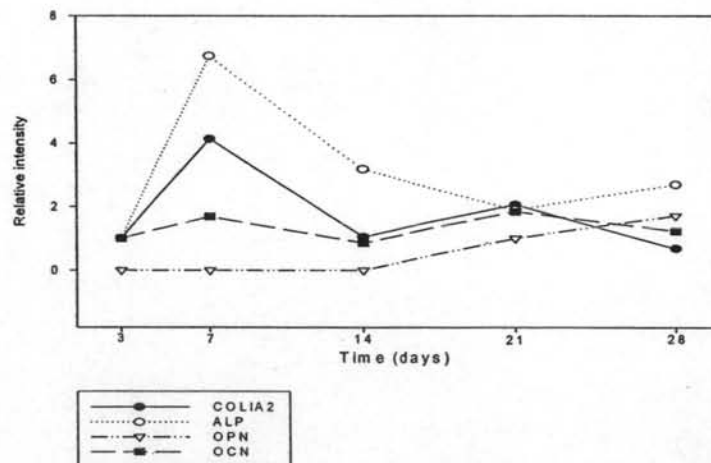


Figure 22. Semi-quantitative RT-PCR of bone markers in HOB3. Cells were plated in 60-mm culture dishes. RNA was extracted at days 3, 7, 14, 21 and 28. The band intensities of the RT-PCR products for BSP were measured and normalized to GAPDH as the

internal standard. The relative intensity was calculated as ratio of the intensity of each time point to the lowest detected intensity or the intensity at day 3.

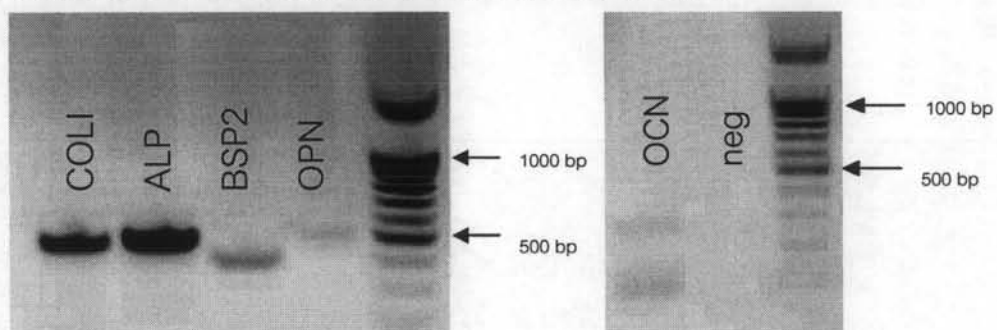


Figure 23. Bone marker gene expressions of SaOS2 (2.5×10^5 cells/well) in day 14, were analyzed by RT-PCR as detailed in Materials and Methods. Ethidium bromide-stained PCR products were photographed, and then the images were digitalized and analyzed.

BIOGRAPHY

Miss Indra Wongyaofa was born on 16th of April 1980 in Bangkok. She graduated with D.D.S. (Doctor of Dental Surgery) from the Faculty of Dentistry, Srinakharinwirot University in 2002, and became a staff member the Faculty of Dentistry, Srinakharinwirot University, Bangkok. She studied in a Master degree program in Endodontology at Graduate School, Chulalongkorn University in 2005.