Additional file 1

Table S1 Summary of clinical data of HO patients

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| **Sample No.** | **Sex** | **Age****(years)** | **Brief disease history, diagnosis & treatment** | **Target tissues?** | **Zonal pattern?** |
| 2211874/460012 | male | 56 | Car accident caused left femoral head necrosis, and left hip HO. Received total hip arthroplasty and HO resection.  | yes | yes |
| 730205/374863 | female | 46 | Motorcycle accident caused left hip HO. Received HO resection. | yes | yes |
| 2299638/421033 | male | 41 | Car accident caused multiple fractures. Received internal fixation and developed left hip HO subsequently, which was resected.  | yes | yes |
| 2030139/374503 | male | 37 | Running accident caused Left elbow (ulnar coronoid) fracture. Received internal fixation, and developed HO subsequently, which was resected.  | yes | yes |
| 2205342/403474 | female | 35 | Bicycle accident caused left elbow HO. Received HO resection.  | yes | yes |
| 2459198/396954 | male | 39 | Basketball accident caused right ulnar fracture. Received internal fixation, and developed HO subsequently, which was resected. | yes | yes |
| 280954/522530 | female | 29 | 16 months after operation of the left acetabular fracture, internal fixation failed. Developed femoral head necrosis with HO. Received total hip replacement and HO resection.  | No? | No? |
| 2019855/371289 | male | 9 | Bicycle accident caused right ulnar coronoid fracture. Received internal fixation, and developed HO subsequently, which was resected.  | No? | No? |
| Code109 | female | 7 | Wide spread unknown swelling with restricted joint motion of the upper arm. Received biopsy before the final diagnosis of Fibrodysplasia ossificans progressiva | Yes | yes |
| Code21 | male | 4 | Unidentified subcutaneous nodule. Received biopsy before the final diagnosis of Fibrodysplasia ossificans progressiva | no | no |
| Code29 | male | 15 | Unidentified subcutaneous nodule. Received biopsy before the final diagnosis of Fibrodysplasia ossificans progressiva | yes | yes |