



Universiteit
Leiden
The Netherlands

Chondroblastoma and chondromyxoid fibroma: disentangling the neoplastic chondrogenesis of two rare cartilaginous tumours

Salvatore, R.

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Stellingen

Behorende bij het proefschrift:

“CHONDROBLASTOMA AND CHONDROMYXOID FIBROMA: DISENTANGLING THE NEOPLASTIC CHONDROGENESIS OF TWO RARE CARTILAGINOUS TUMOURS”

1. Multinucleated giant cells in chondroblastoma are most likely reactive as they do not harbour the same structural changes found in mononuclear cells. (This thesis)
2. Chondroblastoma and chondromyxoid fibroma are sharing a homogeneous expression of cartilage related molecules; “non-cartilage specific” molecules – such as versican, perlecan, col4a2- are crucial for driving the wide inter-tumoural heterogeneity. (This thesis)
3. TGF- β 1 and related downstream molecules are strong candidates for driving partial myofibroblastic differentiation in cartilaginous tumours such as chondromyxoid fibroma. (This thesis)
4. The use of a single FISH probes as an adjunct diagnostic tool for chondromyxoid fibroma is not useful in clinical practice as chromosomal arm 6q is often rearranged in cartilaginous tumours and especially in chondrosarcoma, which is the most important and impactful differential diagnosis. (This thesis)
5. The situation in osteochondroma is not nearly as simple as the growth-plate chondrocytes growing on the wrong direction.(J Bone Joint Surg Am 2009; 91: 63-7)

6. Not all the observed genetic changes in a tumour are necessary for its formation or its malignant progression. Some changes may be randomly determined, so called passenger mutations. (Nature. 2009; 458:719-24)
7. As no neoplastic transformation of normal hyaline cartilage is observed, cartilaginous tumours are supposed to derive from mesenchymal stem cells. (Virchow Arch 2002; 441:219–230)
8. Activation of signalling pathways regulating growth plate formation is necessary for benign cartilaginous tumours formation but not sufficient for malignant transformation. (Lancet Oncol 2005; 6: 599–607 and Cancer Cell 2009; 16: 126–136)
9. "In questions of science the authority of a thousand is not worth the humble reasoning of a single individual". (Attributed to Galileo Galilei by Arago F. *Eulogy of Galileo*, 1874)
10. "Italianen kennen niet van je winnen, maar je ken wel van ze verliezen." Johan Crujff
11. "Succes is een keuze"

Salvatore Romeo, 2010