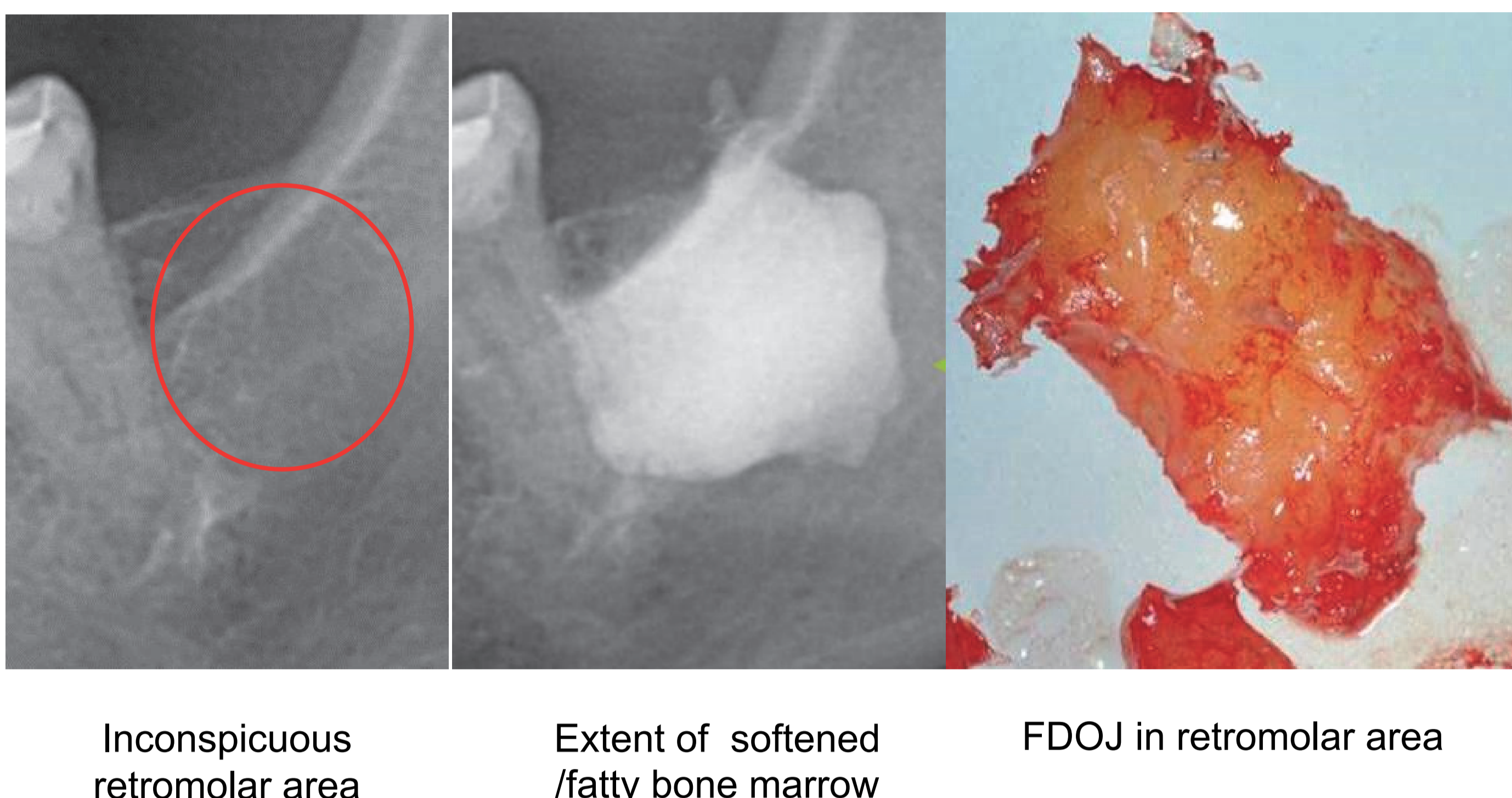


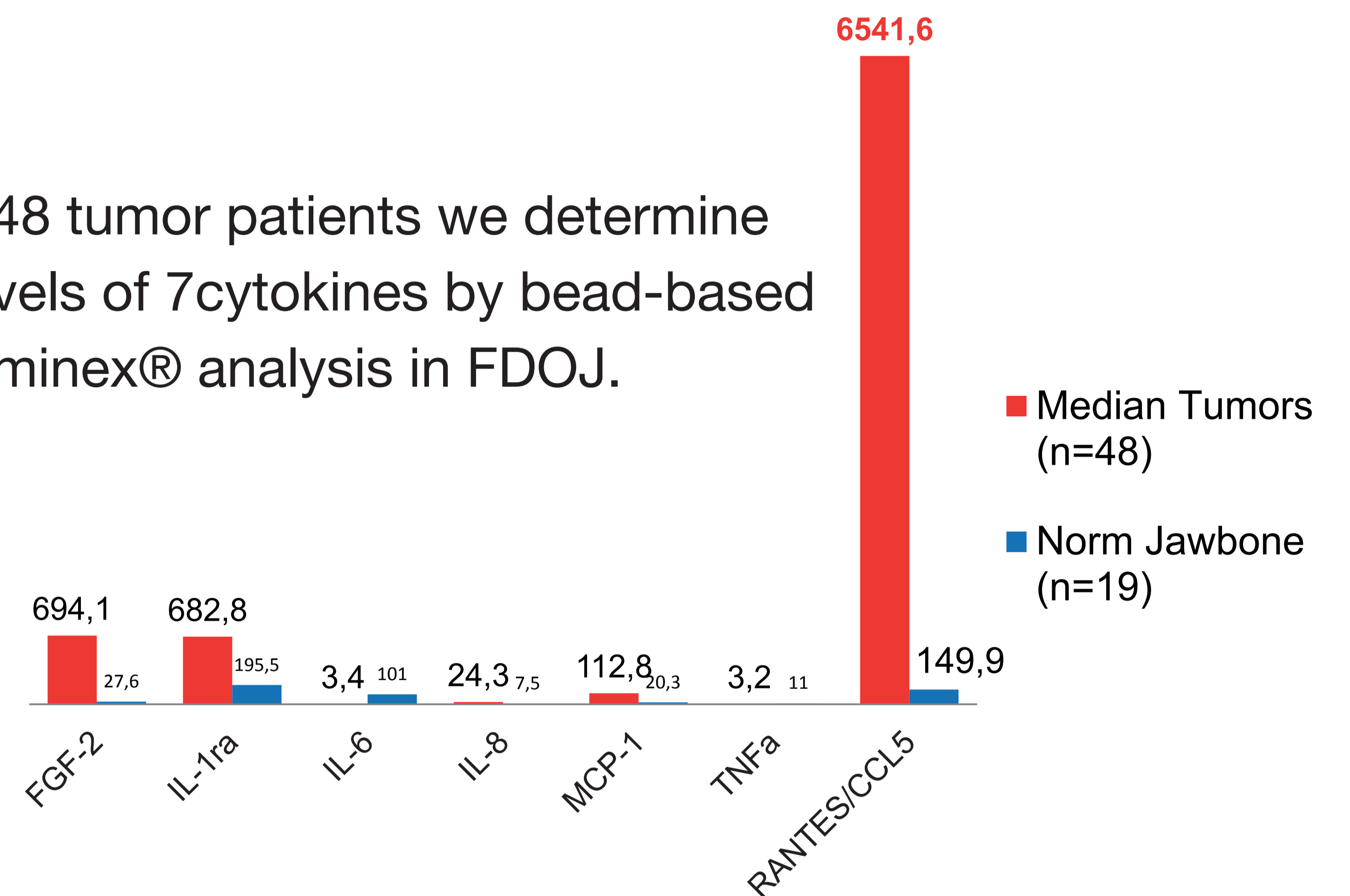
Oncogenetic key signal RANTES/CCL5 - „Cytokine cross talk“ in tumors and silent inflammation of jawbone

Fatty degenerative osteonecrosis of jawbone = FDOJ

Existence of FDOJ is neglected in dentistry because of diagnostic problems in x-rays



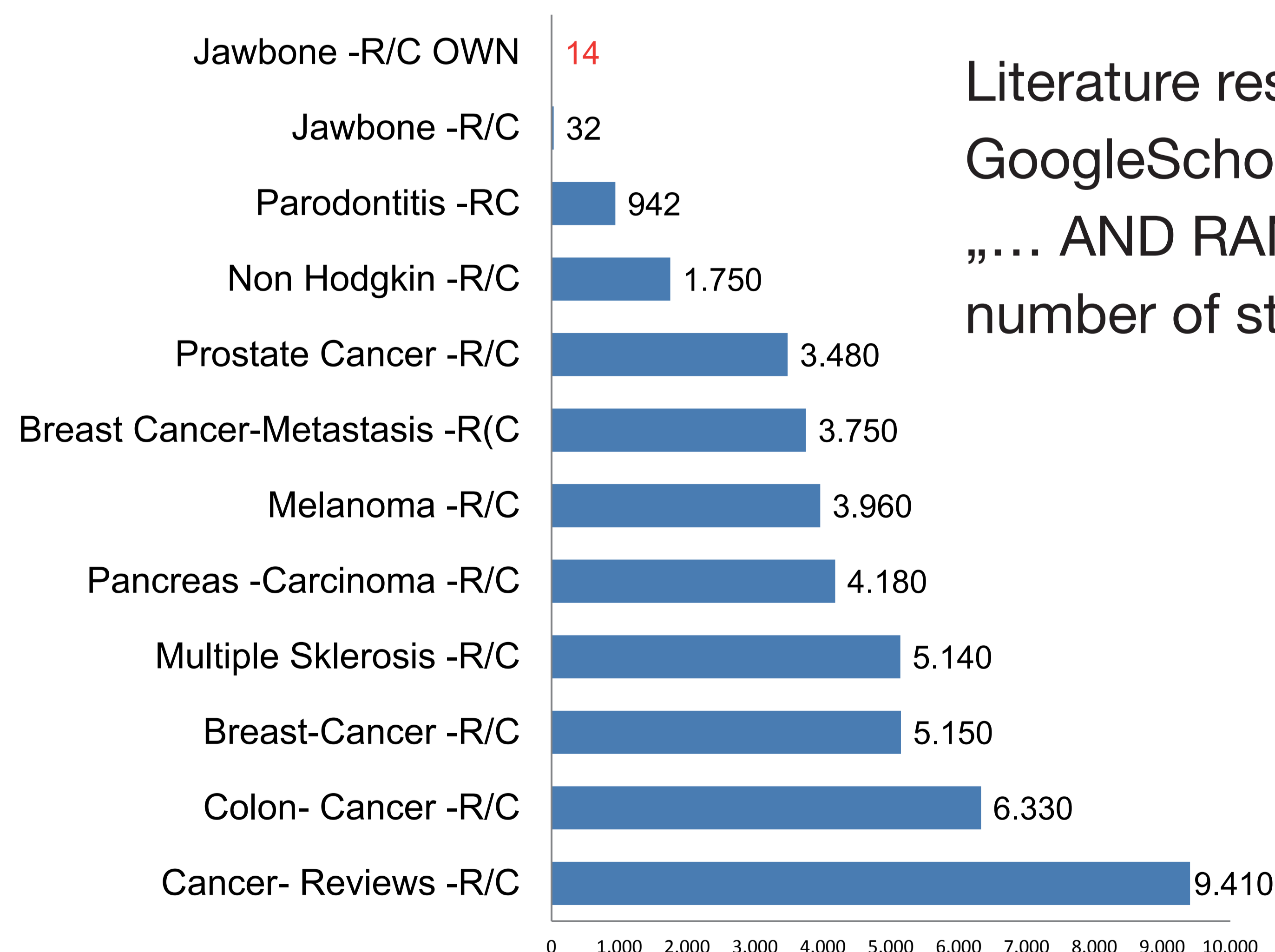
In 48 tumor patients we determine Levels of 7 cytokines by bead-based Luminex® analysis in FDOJ.



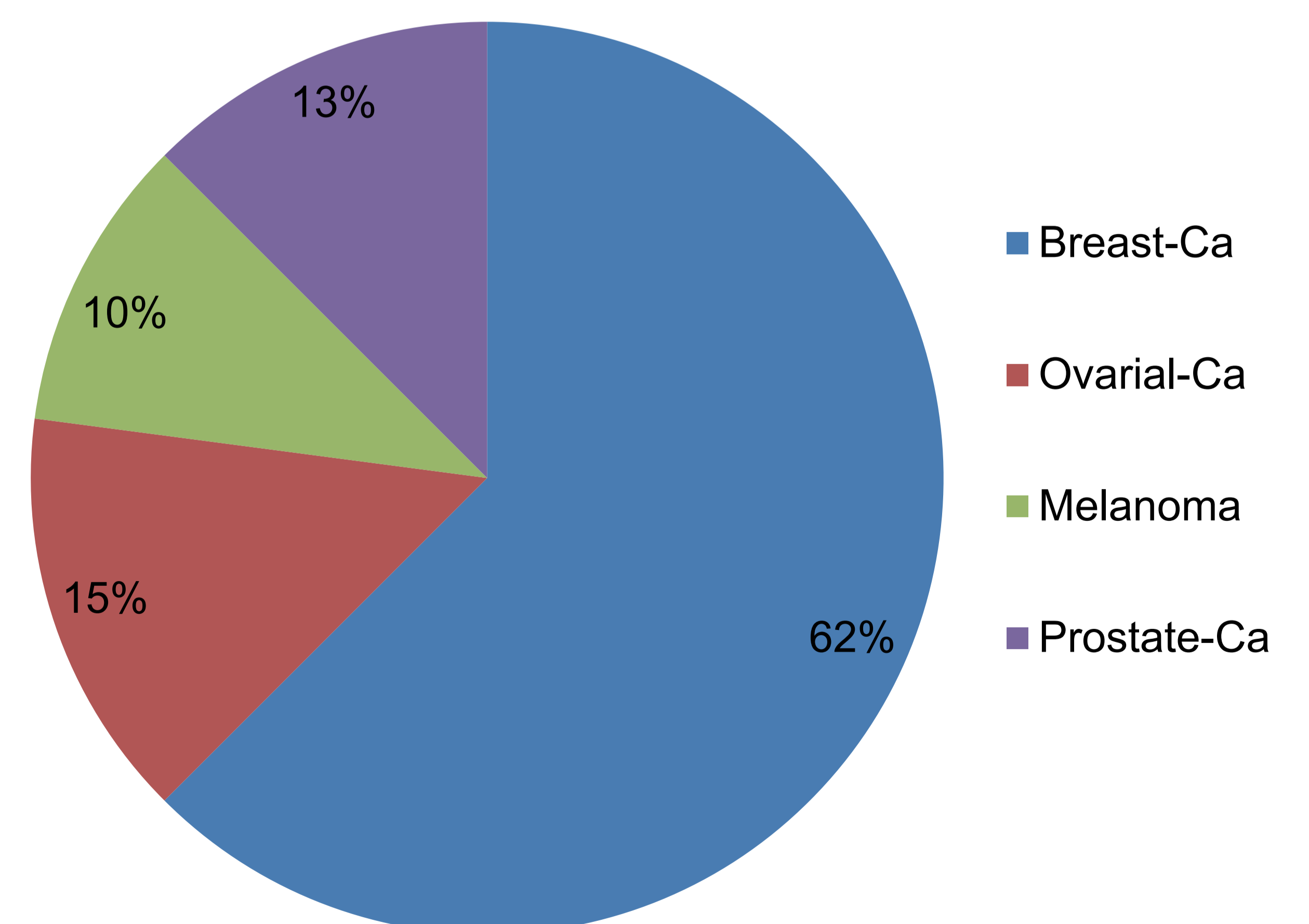
Key research: „The body’s own stem cells stimulate cancer cells to mutate, to spread and to form tumors in other organs ... This enhanced metastatic ability is reversible and is dependent on CCL5/RANTES signaling ...”

Karnoub AE., et al. Mesenchymal stem cells within tumourstroma promote breast cancer metastasis. Nature, Volume 449, Issue 7162, (2007).

Conclusion: Combining the RANTES/CCL5 signal induction of tumors, it may be suggested to involve RANTES/CCL5 source in FDOJ in an integrative therapy concept for tumor therapy.



Literature research
GoogleScholar on
„... AND RANTES CCL5“
number of studies



Scientific publications of data:

www.ncbi.nlm.nih.gov/pubmed/23637551 www.ncbi.nlm.nih.gov/pubmed/24899812