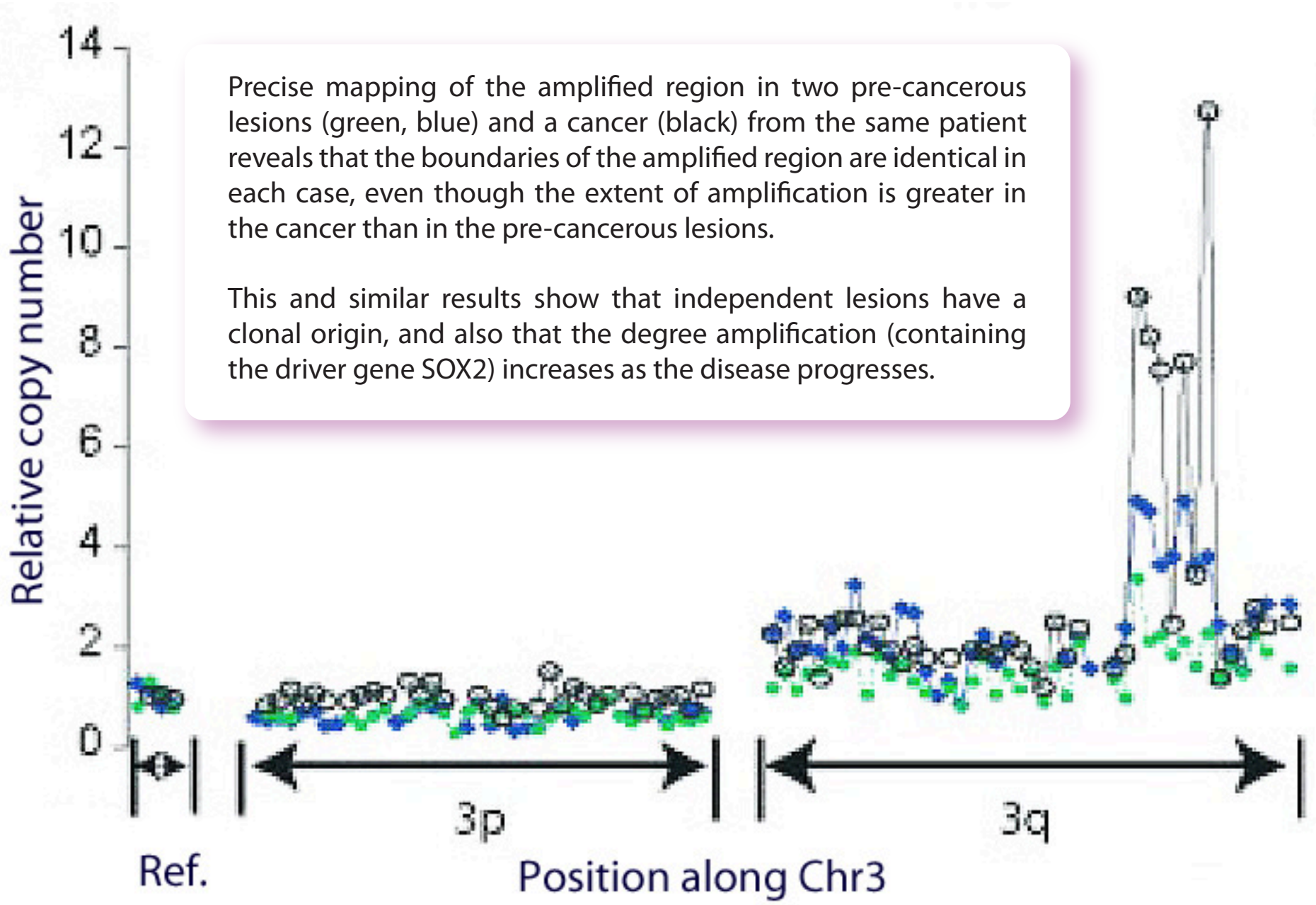


Precise mapping of the amplified region in two pre-cancerous lesions (green, blue) and a cancer (black) from the same patient reveals that the boundaries of the amplified region are identical in each case, even though the extent of amplification is greater in the cancer than in the pre-cancerous lesions.

This and similar results show that independent lesions have a clonal origin, and also that the degree amplification (containing the driver gene SOX2) increases as the disease progresses.