

# Review of: "[Perspective] Is There Any Reason to Stay in Human Genetic Societies as Cytogeneticists?"

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**Potential competing interests:** No potential competing interests to declare.

In his article, Thomas Liehr presents his concerns and thoughts regarding cytogenetics and molecular cytogenetics branch of human genetic field.

Our knowledge and understanding of human genetics and its links to disease, becomes increasingly thorough and detailed with the technological advances. We are able to 'look' at DNA at single nucleotide resolution, we can implement amazing technologies leading to DNA repairs and it is all for the benefit of patients and their families.

However, it becomes more and more clear, that, as the technology progress, the 'old-fashioned' cytogenetics (and even its more 'hi-tech' version - molecular cytogenetics) is in decline.

On one hand it is understandable - cytogenetics/molecular cytogenetics has its obvious limitations, one of which is much lower (in comparison to sequencing techniques) resolution.

However, it should not be a reason to completely forget it, as there is still a role for it to play.

Over the last few years, it has also become obvious that for many training programmes (both at University and professional level) cytogenetics becomes almost neglected (if at all existent). I believe, that one of the reasons is that there are fewer and fewer specialists in cytogenetics field that could actively participate in passing their knowledge to next generations of scientists and researchers. And it creates a vicious circle...

Having cytogenetic background myself, I fully second the author's concerns and support his idea of bringing this issue forward.