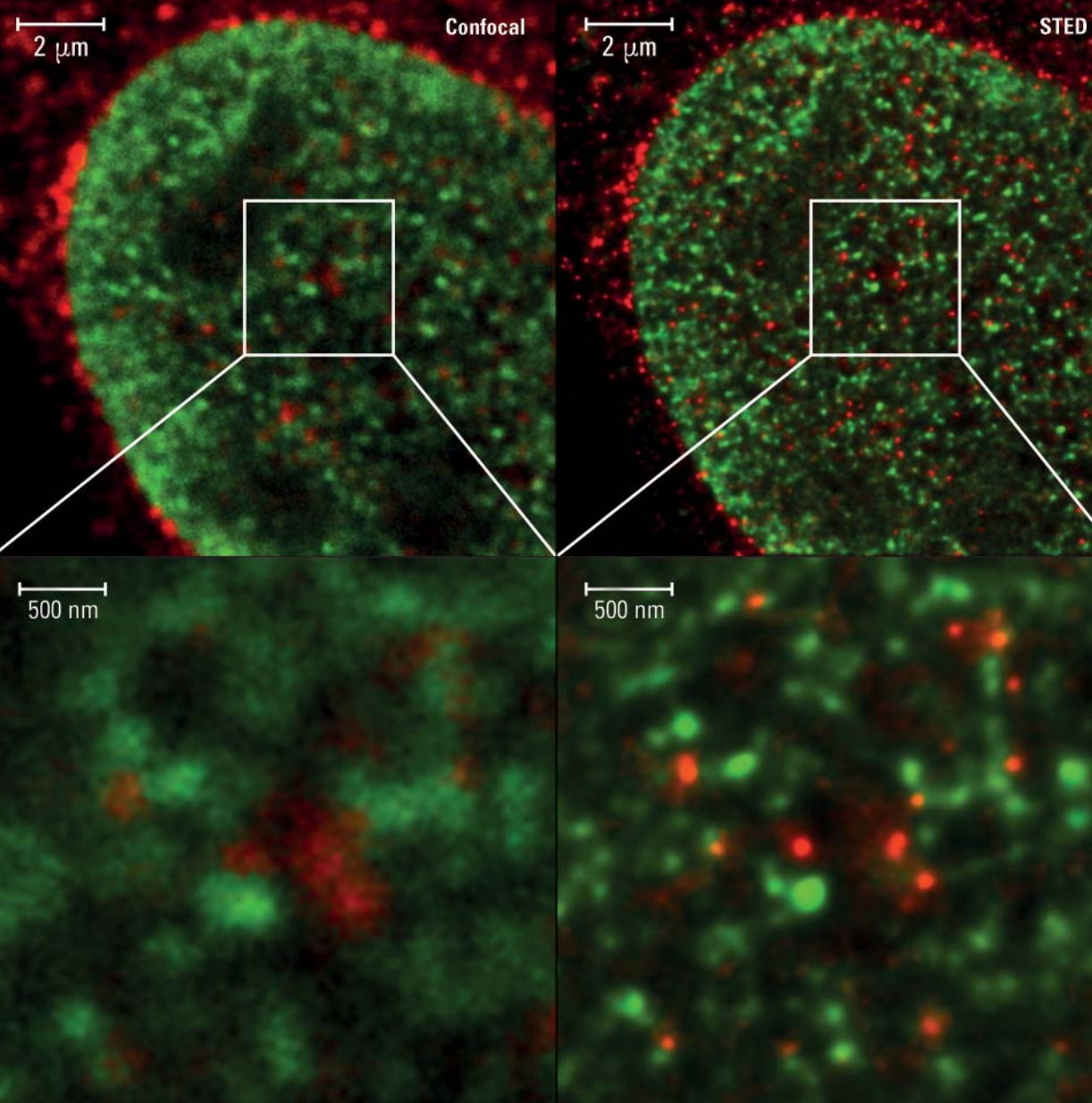




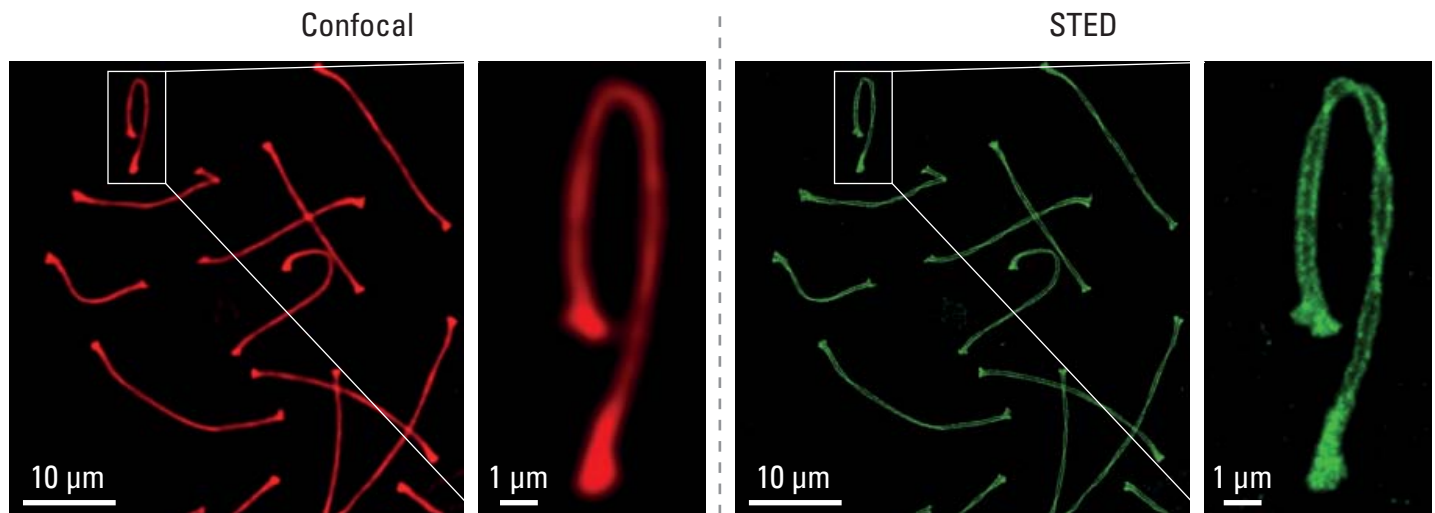
Leica TCS STED – Beyond the Limits!

Confocal Nanoscopy Down to the 50 nm Range

- Study colocalization at the nanoscale – with dualcolor STED
- Intuitive to operate and purely optical
- STED, confocal and multiphoton seamlessly integrated

Living up to Life

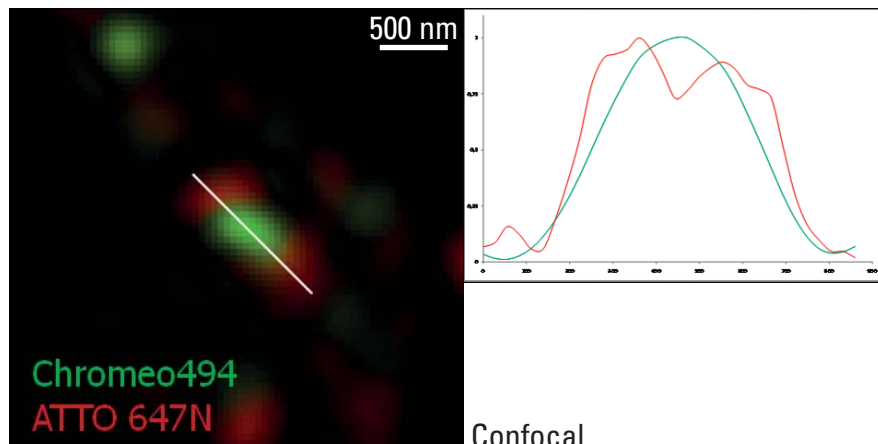
Leica TCS STED – Beyond the Limits!



Immunodetection of the SYCP3 protein on mouse spermatocytes at the diplotene stage of meiotic prophase. Label: ATTO647N. Courtesy: B. de Massy, Institutde Génétique Humaine, CNRS, Montpellier, France

Confocal Nanoscopy

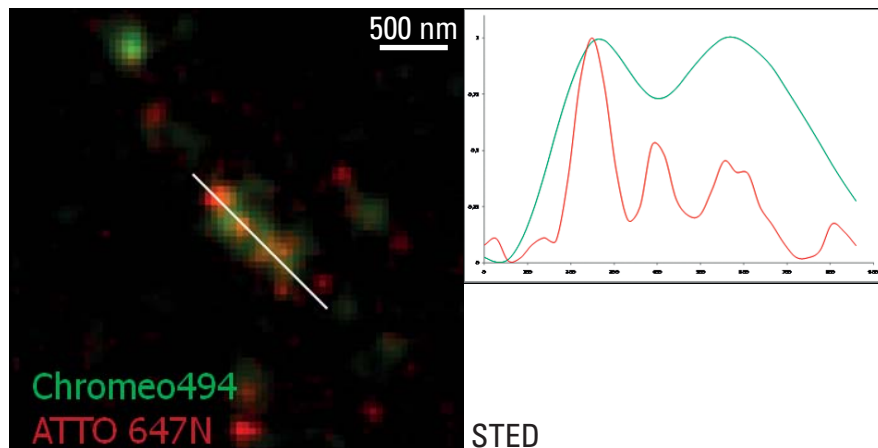
By providing an optical resolution of down to the 50 nm range, a plethora of new structural details become resolvable.



Superresolution Colocalization Analysis

This example illustrates the gain in information by dualcolor STED nanoscopy. Two types of vesicles are marked. The confocal image shows one larger green structure and two red particles which can be separated (see intensity profile, right graph).

The activation of STED clearly shows three red particles and two in green. Red: ATTO 647N, green: Chromeo 494.



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