

Advanced Multi-Dimensional SIM: Aberration-Free, High-Speed 3D, Multi-Color, and Deep Learning Based Virtual Multi-Channel Imaging



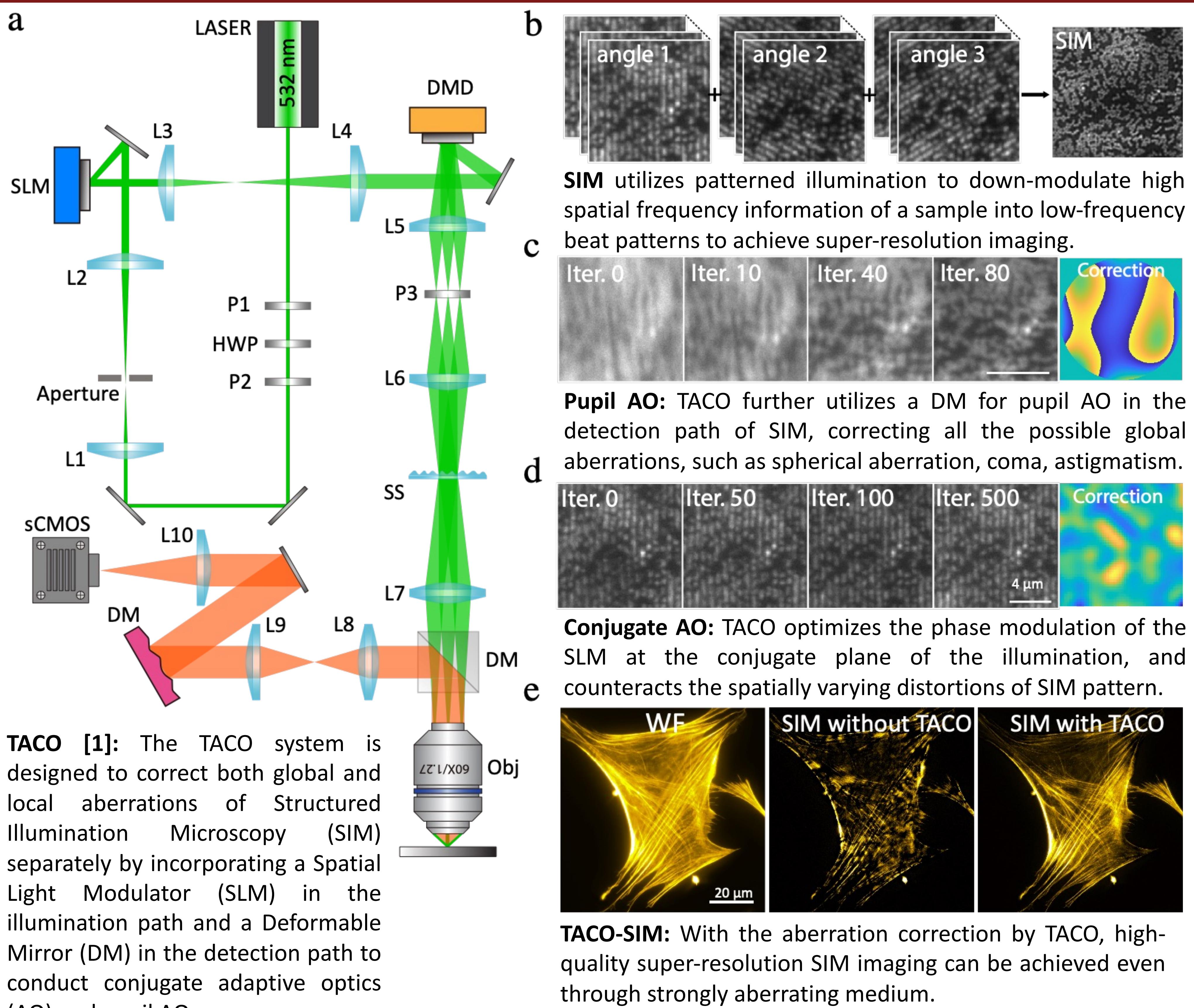
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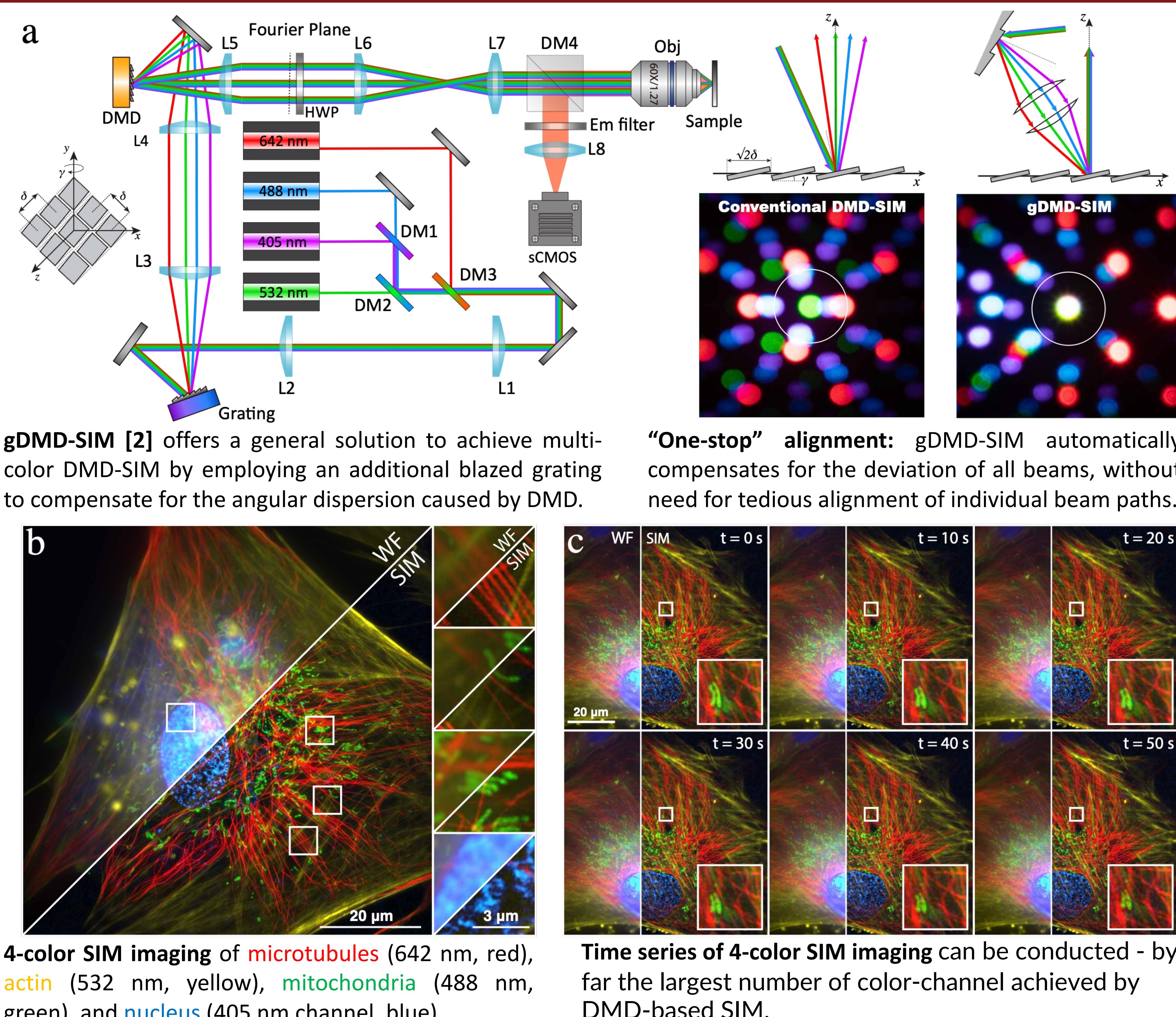
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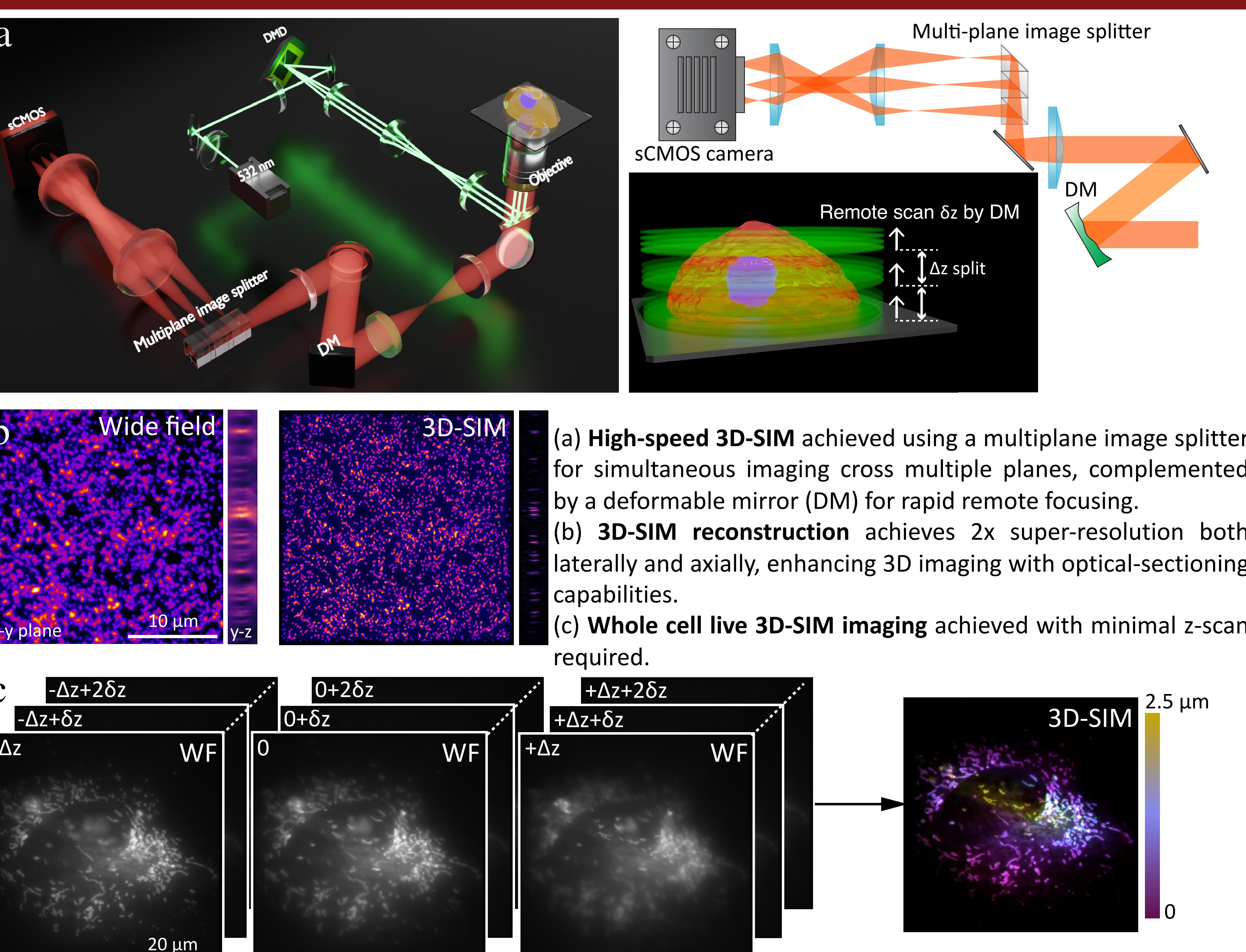
Tandem aberration correction optics (TACO) for SIM aberration correction



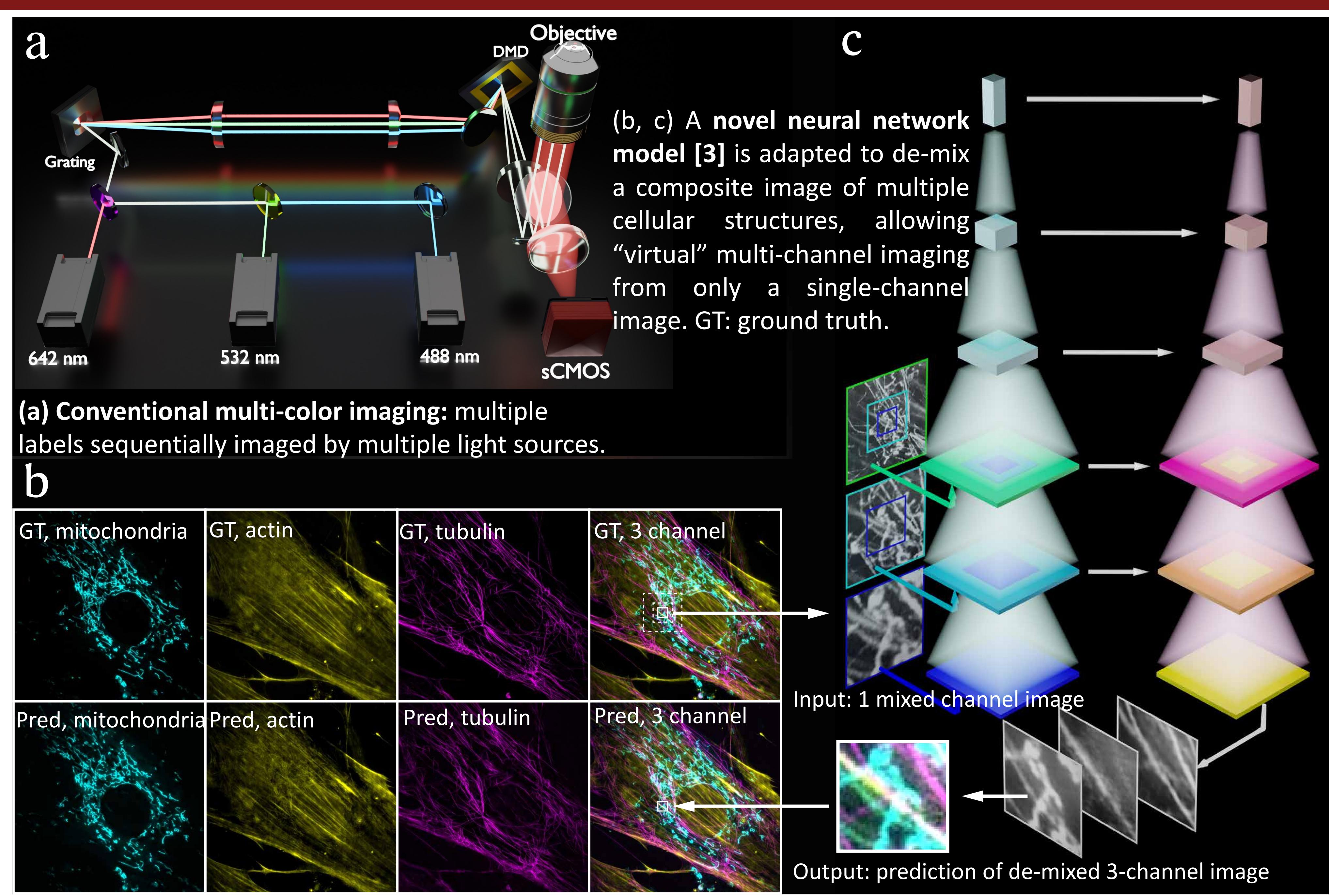
gDMD-SIM: Easily scalable multi-color DMD-based SIM



High-speed 3D-SIM enabled by multi-plane imaging and remote focusing



Leveraging deep learning for virtual multi-channel SIM imaging



References

1. D. Gong and N. F. Scherer, *Biomed. Opt. Express* 14, 6381 (2023).
2. D. Gong, et al., *Opt. Lett.* 49, 77-80 (2024)
3. Ashesh, et al., arxiv, 2211.12872 (2023)