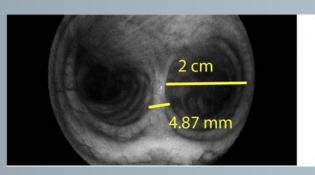
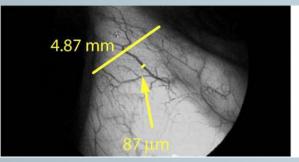
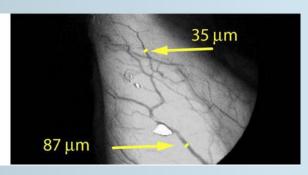
Magnification bronchoscopy (550 ± 25 nm; fixed magnification)







The in vivo resolution is sufficient to visualize small (between 40 and 300 µm) vessels and evaluate vascularization with the help of Shibuya's criteria.

- Mean vessel diameter correlated with the histopathologic status.
- Morphology

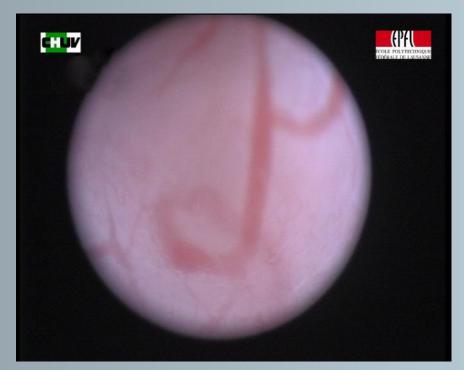
	Squamous dysplasia	ASD	CIS	Micro-invasive	Invasive
Tortuous vessel networks	+	+	-	-	-
Dotted vessels	-	+	+	++	+++
Spiral and screw type vessel	-	-	+	++	+++

Adapted from Shibuya et al., Lung Cancer, 2010.

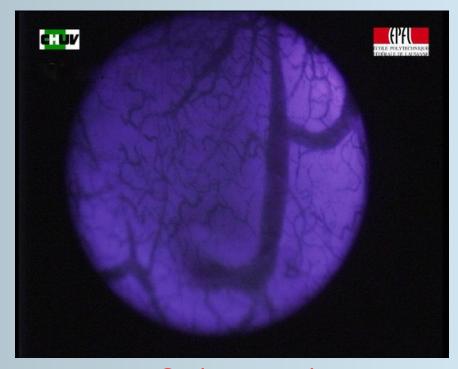


OUTLOOK: Optimization of the spectral design to improve the contrast and the depth selection

Diameter of the field of view: 300 µm

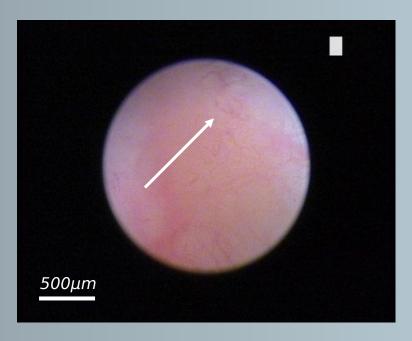


Backscattered white light healthy mucosa



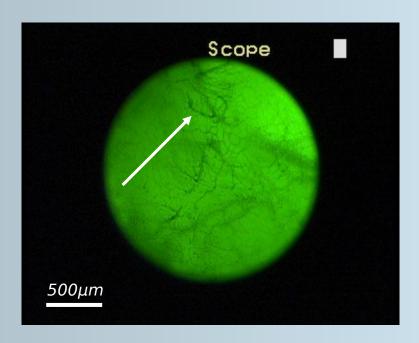
Backscattered Violet (390 nm<λ<430 nm) light healthy mucosa

White light vs. Green $(550 \pm 25nm)$ comparison



White light

Magnification of **90x**



Green backscattered light

Magnification of **90x**

