

Innovative optical techniques for intraoperative anatomical guidance : surgical navigation beyond the limits of the human eye

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STELLINGEN

behorend bij het proefschrift

Innovative Optical Techniques for Intraoperative Anatomical Guidance

Surgical navigation beyond the limits of the human eye

1. Nabij-infrarode fluorescentie cholangiografie in combinatie met indocyanine groen kan bijdragen aan een eerdere identificatie van de galweganatomie tijdens laparoscopische cholecystectomie. *(dit proefschrift)*
2. Nabij-infrarode fluorescentiebeeldvorming en diffuse reflectie spectroscopie kunnen een nuttig hulpmiddel vormen voor de minimaal-invasief chirurg. *(dit proefschrift)*
3. De preklinische contrastvloeistof CW800-CA beschikt over superieure fluorescente karakteristieken in vergelijking met indocyanine groen én kan bovendien naast galweg- en arterievisualisatie óók voor ureterdetectie toegepast worden. *(dit proefschrift)*
4. Voorbij de infrarode detectie-grens van standaard silicium camera's zijn onderscheidende contrastverschillen in de weefselspectra aanwezig, die selectieve contrastversterking en geautomatiseerde weefeldetectie mogelijk kunnen maken. *(dit proefschrift)*
5. Adequate intraoperatieve detectie van vitale anatomische structuren is van essentieel belang om iatrogeen letsel te voorkomen; additionele visualisatie van voor het blote oog onzichtbare contrasten kan hierbij meerwaarde bieden.
6. Innovatieve optische technieken zullen in snel toenemende mate onderdeel uitmaken van de operatietechniek van de toekomst.
7. Multispectral imaging: fifty shades of blue, green, red and infrared. *(Fokko Wieringa)*
8. Close collaboration with technicians can turn physicians into magicians.
9. The best way to predict the future is to invent it. *(Alan Kay)*
10. If you're not failing every now and again, it's a sign you're not doing anything very innovative. *(Woody Allen)*
11. Life is like a camera... Focus on what's important. *(Unknown)*

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