

University of Groningen

Imaging of tumor vascularization and related hypoxia

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Stellingen behorend bij het proefschrift

“Imaging of tumor vascularization and related hypoxia: preclinical and clinical studies.”

“It remains difficult to discern whether hypoxia and/or HIF-1 activation are a cause or a contributing factor in aerobic glycolysis.”

“The relationship found between CA IX expression and [¹⁸F]FDG-PET imaging suggests that in the future it may be possible to identify NSCLC patients that are most likely to benefit from CA IX targeting therapy on the basis of [¹⁸F]FDG-PET imaging.”

“Possibly, in situations where [¹⁸F]FDG-PET imaging is less successful due to low [¹⁸F]FDG-avidity or a low or decreased tumor-to-background ratio, imaging after pharmacological HIF-1 activation might increase sensitivity.”

“Imaging using ^{99m}Tc-(CO)₃ His-CNA35 allows selective imaging of tumor vasculature through a mechanism in which the characteristic leakiness and immaturity of tumor blood vessels allows binding of subendothelial collagen IV.”

“Given its mechanism of binding, CNA35 might be an ideal candidate to identify the time frame of the ‘normalisation window’ of antiangiogenic therapy and thereby identify the ideal moment to administer chemotherapy.”

"Biological processes rarely have absolute truth; it's only our artificial constructs of those truths that tend to be absolute." - unknown

"Common sense is what tells us the Earth is flat and the Sun goes around it." - Stuart Chase

“In science one tries to tell people, in such a way as to be understood by everyone, something that no one ever knew before. But in poetry, it's the exact opposite.” - Paul Dirac

“Good judgement comes from experience. Experience comes from bad judgement.” - Jim Horning

"Laugh at your problems; everybody else does." - unknown