

## **Brain tumor research**

List of pubmed (peer reviewed) publications about research which our group conducted or participated in between 2018-2020.

Last updated 22 november 2020

### **2020**

Van der Weide HL, Kramer MCA, Scandurra D, et al. Proton therapy for selected low grade glioma patients in the Netherlands. *Radiother Oncol*. 2020 Nov 13;S0167-8140(20)31158-0

Hovinga KE, Temel Y. Neurofibromatosis. *Cancers (Basel)*. 2020 Oct 2;12(10):2851.

Klein M, Drijver AJ, van den Ben MJ, et al. Memory in low-grade glioma patients treated with radiotherapy or Temozolomide. A correlative analysis of EORTC study 22033-26033. *Neuro Oncol*. 2020 Nov 1;noaa252.

Sol N, In 't Veld SGJG, Vancura A, et al. Tumor-Educated Platelet RNA for the Detection and (Pseudo)progression Monitoring of Glioblastoma. *Cell Rep Med*. 2020 Oct 20;1(7):100101

Compter I, Eekers DBP, Hoeben A, et al. Chloroquine combined with concurrent radiotherapy and temozolomide for newly diagnosed glioblastoma: a phase IB trial. *Autophagy*. 2020 Sep 20;1-9.

Zeng H, Hendriks LEL, van Geffen WH, et al. Risk factors for neurocognitive decline in lung cancer patients treated with prophylactic cranial irradiation: A systematic review. *Cancer Treat Rev*. 2020 Aug;88:102025.

Verduin M, Beckervordersandforth J, Hoeben A, et al. 'Goedaardige' pulmonale metastasen. ('Benign' pulmonary metastasis). *Ned Tijdschr Oncol* 2020 May;17:103-8.

Van der Heyden B, Almeida IP, Vilches-Freixas G, et al. A comparison study between single- and dual-energy CT density extraction methods for neurological proton monte carlo treatment planning. *Acta Oncol* 2020 Feb;59(2):171-179.

Draisma K, Chatzili A, Taphoorn M, et al. Molecular Evolution of IDH Wild-Type Glioblastomas Treated With Standard of Care Affects Survival and Design of Precision Medicine Trials: A Report From the EORTC 1542 Study. *J Clin Oncol.* 2020 Jan 1;38(1):81-99.

## 2019

Jaspers J, Mendez Romero A, Hoogeman MS, et al. Evaluation of the Hippocampal Normal Tissue Complication Model in a Prospective Cohort of Low Grade Glioma Patients-An Analysis Within the EORTC 22033 Clinical Trial. *Front Oncol* 2019 Oct 1;9:991.

De Witt Hamer PC, Ho VKY, Zwinderman AH, et al. Between-hospital variation in mortality and survival after glioblastoma surgery in the Dutch Quality Registry for Neuro Surgery. *J Neurooncol* 2019 Sep;144(2):313-323.

Weis J, Wirtz MA, Tomaszewski KA. Et al. Sensitivity to change of the EORTC quality of life module measuring cancer-related fatigue (EORTC QLQ-Fa12): Results from the international psychometric validation *Psychooncology* 2019 Aug;28(8):1753-1761

van der Velden DL, Hoes LR, van der Wijngaart H. et al. The Drug Rediscovery protocol facilitates the expanded use of existing anticancer drugs. *Nature.* 2019 Oct;574(7776):127-131.

Hovinga KE, McCrea HJ, Brennan C et al. EGFR amplification and classical subtype are associated with a poor response to bevacizumab in recurrent glioblastoma. *J Neurooncol.* 2019 Apr;142(2):337-345

Walsh S1, de Jong EEC1, van Timmeren JE et al. Decision Support Systems in Oncology. *JCO Clin Cancer Inform.* 2019 Feb;3:1-9.

van Abbema DL, van den Akker M, Janssen-Heijnen ML et al. Patient- and tumor-related predictors of chemotherapy intolerance in older patients with cancer: A systematic review. *J Geriatr Oncol.* 2019 Jan;10(1):31-41.

van der Heyden B, Wohlfahrt P, Eekers DBP et al. Dual-energy CT for automatic organs-at-risk segmentation in brain-tumor patients using a multi-atlas and deep-learning approach. *Sci Rep.* 2019 Mar 11;9(1):4126

Schyns LE, Eekers DB, van der Heyden B et al. Murine vs human tissue compositions: implications of using human tissue compositions for photon energy absorption in mice. Br J Radiol. 2019 Mar;92(1095):20180454

van der Heyden B, Podesta M, Eekers DB et al. Automatic multiatlas based organ at risk segmentation in mice. Br J Radiol. 2019 Mar;92(1095):20180364

Zonneveld MI<sup>1</sup>, Keulers TGH<sup>2</sup>, Rouschop KMA<sup>3</sup>. et al. Extracellular Vesicles as Transmitters of Hypoxia Tolerance in Solid Cancers. Cancers (Basel). 2019 Jan 29;11(2).

Eekers DBP, Roelofs E, Cubillos-Mesías M, et al. Intensity-modulated proton therapy decreases dose to organs at risk in low-grade glioma patients: results of a multicentric *in silico* ROCOCO trial. . Acta Oncol. 2019 Jan;58(1):57-65.

## 2018

Broen MPG, Smits M, Wijnenga MMJ, et al. The T2-FLAIR mismatch sign as an imaging marker for non-enhancing IDH-mutant, 1p/19q-intact lower-grade glioma: a validation study. Neuro Oncol. 2018 Sep 3;20(10):1393-1399.

Goldman DA, Hovinga K, Reiner AS, et al. The relationship between repeat resection and overall survival in patients with glioblastoma: a time-dependent analysis. J Neurosurg. 2018 Nov 1;129(5):1231-1239.

Esquenazi Y, Moussazadeh N, Link TW, et al. Thalamic Glioblastoma: Clinical Presentation, Management Strategies, and Outcomes. Neurosurgery. 2018 Jul 1;83(1):76-85.

Schimmel WCM, Gehring K, Eekers DBP et al. Cognitive effects of stereotactic radiosurgery in adult patients with brain metastases: A systematic review. Adv Radiat Oncol. 2018 Jul 11;3(4):568-581.

Verduin M, Compter I, Steijvers D, et al. Noninvasive Glioblastoma Testing: Multimodal Approach to Monitoring and Predicting Treatment Response. Dis Markers. 2018 Jan 17;2018:2908609.

Bouwens van der Vlis TAM, Kros JM, et al. The complement system in glioblastoma multiforme. Acta Neuropathol Commun. 2018 Sep 12;6(1):91.

Brinkman M, Jentjens S, Boone K, et al. Evaluation of the most commonly used (semi-)quantitative parameters of 18F-FDG PET/CT to detect malignant transformation of neurofibromas in neurofibromatosis type 1. *Nucl Med Commun.* 2018 Nov;39(11):961-968.

Witlox WJA, Ramaekers BLT, Zindler JD, et al. The Prevention of Brain Metastases in Non-Small Cell Lung Cancer by Prophylactic Cranial Irradiation. *Front Oncol.* 2018 Jul 26;8:241.

Nigim F, Wakimoto H, Kasper EM, et al. Emerging Medical Treatments for Meningioma in the Molecular Era. *Biomedicines.* 2018 Aug 6;6(3):86.

Van Lierop ZYGJ, Jentjens S, Anten MHME, et al. Thyroid Gland 18 F-FDG Uptake in Neurofibromatosis Type 1. *Eur Thyroid J.* 2018 Jun;7(3):155-161.

Jutten B1, Keulers TG1, Peeters HJM1, et al. EGFRvIII expression triggers a metabolic dependency and therapeutic vulnerability sensitive to autophagy inhibition. *Autophagy.* 2018;14(2):283-295

Gupta L, Gupta RK, Postma AA, et al. Advanced and amplified BOLD fluctuations in high-grade gliomas. *J Magn Reson Imaging.* 2018 Jun;47(6)

Lambrecht M, Eekers DBP, Alapetite C, et al. Radiation dose constraints for organs at risk in neuro-oncology; the European Particle Therapy Network consensus. Work package 1 of the taskforce "European Particle Therapy Network" of ESTRO. *Radiother Oncol.* 2018 Jul;128(1):26-36.

Hartgerink D, van der Heijden B, de Ruysscher D, et al. Stereotactic Radiosurgery in the Management of Patients With Brain Metastases of Non-Small Cell Lung Cancer: Indications, Decision Tools and Future Directions. *Front Oncol.* 2018 May 9;8:154.

Eekers DB, In 't Ven L, Roelofs E, et al. "European Particle Therapy Network" of ESTRO. The EPTN consensus-based atlas for CT- and MR-based contouring in neuro-oncology. *Radiother Oncol.* 2018 Jul;128(1):37-43.