Stanford



Iris van 't Erve, PhD

Postdoctoral Scholar, Stanford Cancer Institute

Bio

HONORS AND AWARDS

- Rubicon Postdoctoral Fellowship Grant, Dutch Research Council (NWO/ZonMW) (June, 2023)
- Falling Walls 2023 Intensive Track for leading female scientists, Falling Walls Foundation (January, 2023)
- Personal grant, Marina van Damme Fund, Issued by University Fund Wageningen (November, 2020)

PROFESSIONAL EDUCATION

- Doctor of Philosophy (PhD), Netherlands Cancer Institute , Circulating tumor DNA as a biomarker in metastatic colorectal cancer (2022)
- Master of Science (MSc), Wageningen University , Molecular Life Sciences (2017)
- Master of Science (MSc), Wageningen University , Molecular Nutrition and Toxicology (2017)
- Bachelor of Science (BSc), Wageningen University , Nutrition and Health (2014)

STANFORD ADVISORS

- Maximilian Diehn, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Maximilian Diehn (6/15/2022)

Publications

PUBLICATIONS

- **An ultrasensitive method for detection of cell-free RNA.** *Nature*
  Nesselbush, M. C., Luca, B. A., Jeon, Y. J., Jabara, I., Meador, C. B., Garofalo, A., Binkley, M. S., Hui, A. B., van 't Erve, I., Xu, N., Shi, W. Y., Liu, K. J., Sugio, et al
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- **High Prevalence of Chromosomal Rearrangements and LINE Retrotranspositions Detected in Formalin-Fixed, Paraffin-Embedded Colorectal Cancer Tissue.** *The Journal of molecular diagnostics : JMD*
  Rubio-Alarcón, C., Stelloo, E., Vessies, D. C., van 't Erve, I., Mekkes, N. J., Swennenhuis, J., Lakbir, S., van Bree, E. J., Tijssen, M., Delis-van Diemen, P., Lanfermeijer, M., Linders, T., van den Broek, et al
  2024; 26 (12): 1065-1080

- **A scenario-drafting study to explore potential future implementation pathways of circulating tumor DNA testing in oncology.** *Molecular oncology*
  Kramer, A., Rubio-Alarcón, C., van den Broek, D., Vessies, D. C., Van't Erve, I., Meijer, G. A., Vink, G. R., Schuuring, E., Fijneman, R. J., Coupé, V. M., Retèl, V. P.

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- **Cancer treatment monitoring using cell-free DNA fragmentomes.** *Nature communications*

  van 't Erve, I., Alipanahi, B., Lumbard, K., Skidmore, Z. L., Rinaldi, L., Millberg, L. K., Carey, J., Chesnick, B., Cristiano, S., Portwood, C., Wu, T., Peters, E., Bolhuis, et al

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- **A phase 2 single-arm trial of high-dose precision targeted radiotherapy added to immunotherapy for patients with metastatic non-small cell lung cancer.** *International journal of radiation oncology, biology, physics*

  Gensheimer, M. F., Kotha, N. V., Vitzthum, L. K., Chin, A. L., Jackson, S., 't Erve, I. v., Pratapneni, A., Le-Budka, M. L., Wong, S., Brown, E., Barnick, K., Wakelee, H. A., Das, et al

  2024

- **Metastatic Colorectal Cancer Treatment Response Evaluation by Ultra-Deep Sequencing of Cell-Free DNA and Matched White Blood Cells** *CLINICAL CANCER RESEARCH*

  van 't Erve, I., Medina, J. E., Leal, A., Papp, E., Phallen, J., Adleff, V., Chiao, E., Arun, A. S., Bolhuis, K., Simmons, J. K., Karandikar, A., Valkenburg, K. C., Sausen, et al

  2023; 29 (5): 899-909

- **KRAS A146 Mutations Are Associated With Distinct Clinical Behavior in Patients With Colorectal Liver Metastases.** *JCO precision oncology*

  van 't Erve, I., Wesdorp, N. J., Medina, J. E., Ferreira, L., Leal, A., Huiskens, J., Bolhuis, K., van Waesberghe, J. T., Swijnenburg, R. J., van den Broek, D., Velculescu, V. E., Kazemier, G., Punt, et al

  2021; 5

- **Postoperative circulating tumour DNA is associated with pathologic response and recurrence-free survival after resection of colorectal cancer liver metastases** *EBIOMEDICINE*

  Bolhuis, K., van 't Erve, I., Mijnals, C., Delis-Van Diemen, P. M., Huiskens, J., Komurcu, A., Lopez-Yurda, M., van den Broek, D., Swijnenburg, R., Meijer, G. A., Punt, C. J. A., Fijneman, R. J. A.

  2021; 70: 103498

- **Perioperative Systemic Therapy vs Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy Alone for Resectable Colorectal Peritoneal Metastases A Phase 2 Randomized Clinical Trial** *JAMA SURGERY*

  Rovers, K. P., Bakkers, C., Nienhuijs, S. W., Burger, J. W. A., Creemers, G. M., Thijs, A. M. J., Brandt-Kerkhof, A. R. M., Madsen, E. V. E., van Meerten, E., Tuynman, J. B., Kusters, M., Versteeg, K. S., Aalbers, et al

  2021; 156 (8): 710-720

- **Detection of tumor-derived cell-free DNA from colorectal cancer peritoneal metastases in plasma and peritoneal fluid** *JOURNAL OF PATHOLOGY CLINICAL RESEARCH*

  Van't Erve, I., Rovers, K. P., Constantinides, A., Bolhuis, K., Wassenaar, E. C. E., Lurvink, R. J., Huysentruyt, C. J., Snaebjornsson, P., Boerma, D., van den Broek, D., Buffart, T. E., Lahaye, M. J., Aalbers, et al

  2021; 7 (3): 203-208

- **First-line palliative systemic therapy alternated with electrostatic pressurised intraperitoneal aerosol chemotherapy (oxaliplatin) for isolated unresectable colorectal peritoneal metastases: protocol of a multicentre, single-arm, phase II study (CRC-PIPAC-II)** *BMJ OPEN*

  Lurvink, R. J., Rauwerdink, P., Rovers, K. P., Wassenaar, E. C. E., Deenen, M. J., Nederend, J., Huysentruyt, C. J. R., van 't Erve, I., Fijneman, R. J. A., van der Hoeven, E. J., Seldenrijk, C. A., Constantinides, A., Kranenburg, et al

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- **Diagnostic Strategies toward Clinical Implementation of Liquid Biopsy RAS/BRAF Circulating Tumor DNA Analyses in Patients with Metastatic Colorectal Cancer** *JOURNAL OF MOLECULAR DIAGNOSTICS*

  van 't Erve, I., Greuter, E. E., Bolhuis, K., Vessies, D. C. L., Leal, A., Vink, G. R., van den Broek, D., Velculescu, V. E., Punt, C. J. A., Meijer, G. A., Coupe, V. M. H., Fijneman, R. J. A.

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- **Repetitive electrostatic pressurised intraperitoneal aerosol chemotherapy (ePIPAC) with oxaliplatin as a palliative monotherapy for isolated unresectable colorectal peritoneal metastases: protocol of a Dutch, multicentre, open-label, single-arm, phase II study (CRC-PIPAC)** *BMJ OPEN*

  Rovers, K. P., Lurvink, R. J., Wassenaar, E. C. E., Kootstra, T. J. M., Scholten, H. J., Tajzai, R., Deenen, M. J., Nederend, J., Lahaye, M. J., Huysentruyt, C. J. R., van't Erve, I., Fijneman, R. J. A., Constantinides, et al

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- **Changes in Circulating Levels of 25-hydroxyvitamin D3 in Breast Cancer Patients Receiving Chemotherapy** *NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL*

Kok, D. E., van den Berg, M. A., Posthuma, L., van't Erve, I., van Duijnhoven, F. J. B., de Roos, W. K., Grosfeld, S., Los, M., Sommeijer, D. W., van Laarhoven, H. W. M., Winkels, R. M., Kampman, E.

2019; 71 (5): 756-766

- **Perioperative systemic therapy and cytoreductive surgery with HIPEC versus upfront cytoreductive surgery with HIPEC alone for isolated resectable colorectal peritoneal metastases: protocol of a multicentre, open-label, parralel-group, phase II-III, randomised, superiority study (CAIRO6)** *BMC CANCER*

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