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## **Cancer vaccine strategies to improve immunotherapy: many roads lead to Rome**

Tondini, E.

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## CURRICULUM VITAE

Elena was born in Trento, Italy, in 1990. She started her Bachelor studies at the University of Trento in 2009, where she obtained her BSc degree in Molecular Science and Biotechnology. In 2013 she moved to Leiden, the Netherlands, to pursue her Master degree in Animal Biology and Disease Models. During her MSc studies she learnt and became passionate about the field of immunology, and she developed particular interest in the subject of tumor immunology. After obtaining her master degree, Elena started her PhD project in 2015 in the Tumor Immunology group under the supervision of Ferry Ossendorp. During her PhD, she investigated various formulations to increase the efficacy of peptide- and DNA-based cancer vaccines in pre-clinical mouse models. In 2021, she started working as an Immunology Scientist at Frame Therapeutics B.V., Amsterdam, where she is conducting pre-clinical research on frameshift mutations for cancer vaccination. In Autumn 2021, she is going to start a post Doc fellowship at the National Institute of Health in Bethesda, Maryland (USA) investigating the mechanisms of antigen presentation.

## LIST OF PUBLICATIONS

### **Multivalent, Stabilized Mannose-6-Phosphates for the Targeted Delivery of Toll-Like Receptor Ligands and Peptide Antigens**

Reintjens NRM\*, **Tondini E\***, Vis C, McGlenn T, Meeuwenoord NJ, Hogervorst TP, Overkleef HS, Filippov DV, van der Marel GA, Ossendorp F, Codée JDC

*Chembiochem* 2021 Jan 15;22(2):434-440

### **Self-adjuvanting cancer vaccines from conjugation-ready lipid A analogues and synthetic long peptides**

Reintjens NRM\*, **Tondini E\***, de Jong AR, Meeuwenoord NJ, Chiodo F, Peterse E, Overkleef HS, Filippov DV, van der Marel GA, Ossendorp F, Codée JDC

*J Med Chem* 2020; 63(20):11691-11706

### **Identification of a neo-epitope dominating endogenous CD8 T cell responses to MC-38 colorectal cancer**

Hos BJ, Camps MGM, Bulk J, **Tondini E**, van den Ende TC, Ruano D, Franken K, Janssen GMC, Ru A, Filippov DV, Arens R, van Veelen PA, Miranda N, Ossendorp F

*Oncoimmunology* 2019;1673125.

### **Cationic synthetic long peptides-loaded nanogels: An efficient therapeutic vaccine formulation for induction of T-cell responses**

Kordalivand N\*, **Tondini E\***, Lau CYJ, Vermonden T, Mastrobattista E, Hennink WE, Ossendorp F, Nostrum CFV

*J Control Release* 2019; 315:114-125

### **A poly-neoantigen DNA vaccine synergizes with PD-1 blockade to induce T cell-mediated tumor control**

**Tondini E**, Arakelian T, Oosterhuis K, Camps M, van Duikeren S, Han W, Arens R, Zondag G, van Bergen J, Ossendorp F

*Oncoimmunology* 2019; 8(11):1652539

### **Peptides conjugated to 2-alkoxy-8-oxo-adenine as potential synthetic vaccines triggering TLR7**

Gential GPP, Hogervorst TP, **Tondini E**, van de Graaff MJ, Overkleef HS, Codée JDC, van der Marel GA, Ossendorp F, Filippov DV

*Bioorg Med Chem Lett* 2019; 29 (11), 1340-1344

### **Dual synthetic peptide conjugate vaccine simultaneously triggers TLR2 and NOD2 and activates human dendritic cells**

Zom GG, Willems MM, Meeuwenoord NJ, Reintjens NRM, **Tondini E**, Khan S, Overkleef HS, van der Marel GA, Codée JDC, Ossendorp F, Filippov DV

*Bioconjugate chem* 2019; 30 (4), 1150-1161

### **Approaches to improve chemically defined synthetic peptide vaccines**

Hos BJ\*, **Tondini E\***, van Kasteren SI, Ossendorp F

*Frontiers in Immunology* 2018; 9(884)

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