# FUNDED PROJECTS KWF PROGRAMME RESEARCH & IMPLEMENTATION CALL 2017-I

# RESEARCH PROJECTS

Project Number	Project Title	Project Leader	Institute	Department	Research Phase	Tumor type	Modality	Assigned Funder	Approved budget
10873	Clinical evaluation of the benefit of planning based steering to improve effectiveness of hyperthermia in cervical cancer patients	Dr. Petra Kok	Academic Medical Center	Radiation Oncology (Radiotherapy)	Clinical	Cervical Cancer	Interventive devices		€ 326.486,80
10882	Individualized image-guided adaptive radiotherapy for resectable gastric cancer: now and in the future	Dr. Astrid van der Horst	Academic Medical Center	Radiation Oncology (Radiotherapy)	Clinical	Stomach Cancer	Interventive devices		€ 611.236,60
10961	Adjuvant hyperthermic intraperitoneal chemotherapy in patients with colon cancer at high risk of peritoneal carcinomatosis; the COLOPEC randomized multicentre trial.	Dr. Pieter Tanis	Academic Medical Center	Surgery	Clinical	Colon and Rectal Cancer	Interventive devices		€ 41.528,00
10992	COMBATING THERAPY-INDUCED EPITHELIAL TO MESENCHYMAL TRANSITION IN ESOPHAGEAL CANCER	Dr. Maarten Bijlsma	Academic Medical Center	Center of Experimental and Molecular Medicine	Creation of modality	Oesophageal Cancer	Biomarkers		€ 583.890,26
11000	Toxicity prediction in radiotherapy for pelvic cancers, assessing the added value of biological parameters to RT treatment planning variables	Prof. Coen Rasch	Academic Medical Center	Radiation Oncology (Radiotherapy)	Clinical	Bladder Cancer	Biomarkers		€ 680.516,00
11109	Long-term outcomes of acute left-sided malignant colonic obstruction in the Netherlands; value of 'bridge-to-surgery' strategy.	Dr. Pieter Tanis	Academic Medical Center	Surgery	Clinical	Gastrointestinal Tract	Quality of life / care		€ 135.099,80
10948	Targeting miR-139, a novel tumor suppressor in acute myeloid leukemia	Dr. Stefan Erkeland	Erasmus University Medical Center Rotterdam	Immunology	Basic research	Leukemia	Basic research		€ 598.347,00
10955	The (cost)effectiveness of neoadjuvant FOLFIRINOX versus upfront surgery for (borderline) resectable pancreatic cancer. The PREOPANC-2 study.	Dr. Bas Groot Koerkamp	Erasmus University Medical Center Rotterdam	Surgery	Clinical	Pancreatic Cancer	Agents	Alpe d'HuZes	€ 523.338,71
11008	Dissecting the structural and molecular determinants of DNA replication stress in genome instability and tumorigenesis.	Dr. Arnab Ray Chaudhuri	Erasmus University Medical Center Rotterdam	Molecular Genetics	Basic research	Breast Cancer; Not Site-Specific Cancer	Basic research		€ 697.449,00
11086	Realizing better doctor-patient dialogue about choices in palliative care and early-phase clinical trial participation: Towards an online value clarification tool.	Prof. Carin Van der Rijt	Erasmus University Medical Center Rotterdam	Medical Oncology	Clinical	Not Site-Specific Cancer	Quality of life / care		€ 586.466,50
11089	Development of a radiolabeled necrosis-targeting probe for early detection of anti-cancer therapy efficacy and anti-cancer treatment: a new theranostic platform.	Prof. Clemens Löwik	Erasmus University Medical Center Rotterdam	Radiology / Nuclear Medicine	Creation of modality	Breast Cancer	Imaging		€ 451.048,00
11092	Niche Inflammation and Clonal Evolution in Bone Marrow Failure and Leukemia	Dr. Marc Raaijmakers	Erasmus University Medical Center Rotterdam	Hematology	Credentialing	Leukemia	Basic research		€ 691.449,00
11143	Boosting hyperthermia-based anticancer treatments by HSP90 inhibition	Prof. Roland Kanaar	Erasmus University Medical Center Rotterdam	Molecular Genetics	Credentialing	Bladder Cancer; Breast Cancer; Head and Neck Cancer; Melanoma; Sarcoma (soft tissue); Urinary System	Agents		€ 591.391,00
10936	Treating fear of cancer recurrence in primary care - effectiveness of a mental health worker led program	Dr. Marije van der Lee	Helen Dowling Instituut	Scientific Research	Clinical	Not Site-Specific Cancer	Quality of life / care	Alpe d'HuZes	€ 398.308,85
11080	Function and regulation of the fibrous corona of mitotic kinetochores in the protection of genome stability	Prof. Geert Kops	Hubrecht Institute	Hubrecht Institute (department)	Basic research	Not Site-Specific Cancer	Basic research		€ 636.620,50
11001	Bacterial food poisoning and colon cancer; a cell biological and epidemiological study	Prof. Jacques Neefjes	Leiden University Medical Center	Chemical Immunology	Credentialing	Colon and Rectal Cancer	Basic research		€ 571.699,00
10956	The Orthopedia Homeobox transcription factor (OTP) in lung carcinoids: an indicator for metastatic progression or also a tumor supressor?	Prof. Ernst Speel	Maastricht UMC+ (Maastricht University)		Creation of modality	Lung Cancer	Biomarkers		€ 498.431,66
11044	Energy balance, somatic mutations and metabolic subtypes in colorectal cancer: studying etiology and prognosis using molecular pathological epidemiology	Prof. Piet van den Brandt	Maastricht UMC+ (Maastricht University)	GROW, School for Oncology and Developmental Biology	Credentialing	Colon and Rectal Cancer	Lifestyle and exposure		€ 835.704,20
10894	Achieving synergy between radiotherapy and immunotherapy to increase control of metastatic cancer	Dr. Inge Verbrugge	The Netherlands Cancer Institute	Tumor biology & Immunology	Basic research	Breast Cancer; Lung Cancer	Immune response modifiers	Alpe d'HuZes	€ 679.585,00
10902	New era of radiosensitization by modulating radiosensitizing agents during RT	Dr. Gerben Borst	The Netherlands Cancer Institute	Radiotherapy	Preclinical	Breast Cancer; Not Site-Specific Cancer	Interventive devices		€ 675.831,00
10933	A risk prediction tool for cardiovascular disease in breast cancer patients	Prof. Flora E. van Leeuwen	The Netherlands Cancer Institute	Psychosocial Research and Epidemiology	Credentialing	Breast Cancer	Quality of life / care	Pink Ribbon	€ 437.130,00
10999	Mechanisms of DNA repair pathway control at DNA double-strand breaks and telomeres	Dr. Jacqueline Jacobs	The Netherlands Cancer Institute	Oncogenomics	Basic research	Not Site-Specific Cancer	Basic research		€ 596.318,00
11037	Exploiting proline vulnerability for cancer therapy	Prof. Reuven Agami	The Netherlands Cancer Institute	Oncogenomics	Basic research	Not Site-Specific Cancer	Basic research		€ 807.549,00
11074	Targeting replication rescue pathways	Prof. Hein te Riele	The Netherlands Cancer Institute	Tumor biology & Immunology	Basic research	Head and Neck Cancer	Basic research		€ 755.344,00
11079	Cytotoxic T cell programming at the dendritic cell interface	Prof. Jannie Borst	The Netherlands Cancer Institute	Tumor biology & Immunology	Basic research	Not Site-Specific Cancer	Immune response modifiers		€ 618.318,00
11132	Postpartum breast cancer diagnosed during involution: a distinct entity with unique clinicopathological, molecular and immunological features?	Prof. Frédéric Amant	The Netherlands Cancer Institute	Medical Oncology	Basic research	Breast Cancer	Basic research		€ 639.210,27
11165	Radiosensitization of glioma through induction of mitotic enrichment	Dr. Olaf van Tellingen	The Netherlands Cancer Institute	Diagnostic Oncology	Preclinical	Brain Tumor	Agents		€ 394.321,50
11137	The clonal relationship and mutational landscape of B-cell lymphoma recurrences: a key to tailored treatment	Prof. Han van Krieken	Radboud University Medical Center	Pathology	Credentialing	Hodgkin's Disease; Non- Hodgkin's Lymphoma	Biomarkers		€ 597.116,00

10932	MRI-guided focal salvage high dose rate brachytherapy for radiorecurrent prostate cancer	Dr. Jochem van der Voort van Zyp	UMC Utrecht	Imaging	Clinical	Prostate Cancer	Interventive devices		€	323.925,60
10978	Improved prediction and early detection of recurrent laryngeal carcinoma	Dr. Stefan Willems	UMC Utrecht	Laboratories & Pharmacy	Credentialing	Head and Neck Cancer	Biomarkers		€	497.402,00
11108	Personalized strategy to avert drug resistance in hematologic cancers	Dr. Victor Peperzak	UMC Utrecht	Laboratories & Pharmacy	Creation of modality	Blood Cancer; Leukemia	Agents	Alpe d'HuZes	€	516.464,00
11110	Cognitive Functioning After Brain Irradiation Informed by MRI	Dr. ir. Marielle Philippens	UMC Utrecht	UMC Utrecht Cancer Center	Credentialing	Not Site-Specific Cancer	Imaging		€	635.728,50
11111	EORTC-1308: Radiation versus Observation following surgical resection of Atypical Meningioma: a randomised controlled trial (The ROAM trial)	Dr. Joost Verhoeff	UMC Utrecht	UMC Utrecht Cancer Center	Clinical	Nervous System	Interventive devices		€	56.476,00
10861	Accelerated ageing in cancer survivors: Senescence EArly after Chemotherapy for testicular cAncer treatment: Time to act (SEA-CAT)	Prof. Jourik Gietema	University Medical Center Groningen	Medical Oncology	Clinical	Testicular Cancer	Quality of life / care		€	746.132,00
10989	Characterization of UV-induced senescent cells during melanoma progression	Dr. Marco Demaria	University Medical Center Groningen	Ageing Biology	Basic research	Melanoma	Basic research		€	615.475,00
11010	Modulation of the TSC-mTORC1-mitochondrial pathway for suppression of MYC-driven tumourigenesis	Prof. Cor Calkhoven	University Medical Center Groningen	Ageing Biology	Basic research	Blood Cancer; Leukemia; Lung Cancer	Basic research		€	647.459,00
11013	Using the plasma membrane proteome to dissect clonal heterogeneity and track disease progression in AML	Prof. Jan Jacob Schuringa	University Medical Center Groningen	Hematology	Basic research	Leukemia	Basic research		€	579.402,00
11062	Towards evidence-based and broadly supported protocols for cancer follow-up in primary care	Dr. Annette Berendsen	University Medical Center Groningen	General Practice	Creation of modality	Breast Cancer; Colon and Rectal Cancer	Quality of life / care		€	276.605,57
11072	EORTC-1301-LG: 10-day decitabine versus conventional chemotherapy ("3+7") followed by allografting in AML patients ≥ 60 years (extension approved KWF grant)	Prof. Gerwin Huls	University Medical Center Groningen	Hematology	Clinical	Leukemia	Agents		€	139.150,00
11082	Dissecting the role of aberrant Wnt signaling in breast cancer	Dr. Renee van Amerongen	University of Amsterdam	Swammerdam Institute for Life Sciences	Basic research	Breast Cancer	Basic research		€	517.035,00
10967	Unraveling the role of signaling networks controlled by Grainyhead like transcription factor in breast cancer subtypes	Dr. Erik Danen	University of Leiden	Leiden Academic Centre for Drug Research (LACDR)	Basic research	Breast Cancer	Basic research		€	495.692,80
11038	Drug-atlas based prediction of multi-drug combinations against glioblastoma	Dr. Bart Westerman	VU University Medical Centre	Neurosurgery (VUmc CCA)	Basic research	Nervous System	Agents		€	444.503,90
11065	Exosomes-driven alterations of mesenchymal stem cell immunomodulatory properties as novel therapeutic targets for osteosarcoma	Dr. Serena Rubina Baglio	VU University Medical Centre	Pathology (VUmc CCA)	Credentialing	Bone Cancer	Immune response modifiers		€	523.532,95

Total funding Research Projects (43 projects): € 22.674.717,97

### **YOUNG INVESTIGATOR GRANTS**

Project Number	Project Title	Project Leader	Institute	Department	Research Phase	Tumor type	Mission Goal(s)	Assigned Funder	Approved budget
11053	ER-stress and Grp78 during intestinal carcinogenesis	Dr. Jarom Heijmans	Academic Medical Center	Tytgat Institute for Liver and Intestinal Research	Basic research	Colon and Rectal Cancer	Basic research	Alpe d'HuZes	€ 613.505,75
11031	Dissecting the mechanisms of malignant transformation in del(5q) myelodysplastic syndrome to selectively target the disease-initiating hematopoietic stem cells	Dr. Rebekka Schneider- Kramann	Erasmus University Medical Center Rotterdam	Hematology	Basic research	Blood Cancer	Basic research	Alpe d'HuZes	€ 506.273,00
	The causes and effect of variation in the curative treatment of esophageal and gastric cancer: A mixed methods approach	Dr. Rob Verhoeven	IKNL	Research	Credentialing	Oesophageal; Stomach Cancer	Quality of life / care	Alpe d'HuZes	€ 551.465,90
	Oncolytic viruses, a generic approach to sensitize tumours for cancer immunotherapy	Dr. Nadine Pronk - van Montfoort	Leiden University Medical Center	Clinical Oncology	Credentialing	Melanoma; Ovarian Cancer; Pancreatic Cancer; Valva Cancer	Immune response modifiers	Alpe d'HuZes	€ 518.687,72
10911	ROGUE: Radiosensitization Of high-grade Glioma and diffuse intrinsic pontine glioma by focused Ultrasound-mediated drug Engagement	Dr. Dannis Van Vuurden	Princess Maxima Center for Pediatric Oncology	Research Operations	Creation of modality	Nervous System	Agents	Alpe d'HuZes	€ 499.965,00
10957	The RSPO-LGR signaling pathway as a driver of breast cancer	Dr. Elvira Bakker	UMC Utrecht	Laboratories & Pharmacy	Basic research	Breast Cancer	Basic research	Alpe d'HuZes	€ 665.465,55
10851	Precision Thyroid cAncer surgery with intraoperative molecular fluoRescent Guided imaging to rEduce overtreatmenT and postoperative morbidity (TARGET)	Dr. Schelto Kruijff	University Medical Center Groningen	Surgery	Clinical	Thyroid Cancer	Interventive devices	Alpe d'HuZes	€ 611.684,00
10913	TArgeting Metabolism to Improve response to immune- Checkpoint inhibition in melanoma (TAMIC)	Dr. Mathilde Jalving	University Medical Center Groningen	Medical Oncology	Clinical	Melanoma	Agents	Alpe d'HuZes	€ 477.492,40
	Preventing radiation-induced neurocognitive dysfunction in patients with paediatric brain tumours: biological mechanisms and potential role of proton therapy	Dr. Lara Barazzuol	University Medical Center Groningen	Radiotherapy	Creation of modality	Brain Tumor	Quality of life / care	Alpe d'HuZes	€ 495.958,50
10960	Towards OPtimal TIming and Method for promoting sUstained adherence to lifestyle and body weight recommendations in postMenopausal breast cancer survivors.	Dr. Meeke Hoedjes	VU University Amsterdam	Health Sciences (FALW)	Basic research	Breast Cancer	Lifestyle and exposure	Alpe d'HuZes	€ 505.432,80

#### **CONSORTIA**

Project Number	Project Title	Project Leader	Institute	Department	Research Phase	Tumor type	Mission Goal(s)	Assigned Funder	Approved budget
	leucoging DNA for personalised specific immunotherapy	Prof. Ferry Ossendorp	Leiden University Medical Center	Immunohematology and Blood Transfusion	Creation of modality	1	Immune response modifiers		€ 705.363,00
11105	Improving breast cancer screening among young high risk women by blood-based methods	Dr. Esther Lips	The Netherlands Cancer Institute	Molecular Pathology	Credentialing	Breast Cancer	Biomarkers	Pink Ribbon	€ 605.849,50
11026	Glioma Longitudinal AnalySiS in the Netherlands (GLASS-NL): Molecular and imaging markers for malignant evolution of IDH- mutant astrocytomas.	Prof. Pieter Wesseling	VU University Medical Centre	Pathology (VUmc CCA)	Credentialing	Brain Tumor	Biomarkers		€ 1.218.641,20
Total funding Consortia (3 projects): €								€ 2.529.853,70	

Total funding Consortia (3 projects): €

## **UNIQUE HIGH RISK PROJECTS**

Project Number	Project Title	Project Leader	Institute	Department	Research Phase	Tumor type	Mission Goal(s)	Assigned Funder	Approved budget
10906	TRACE and RECALL clonal population dynamics to model colorectal cancer tumor growth	Dr. Nicolas Leveille	Academic Medical Center	Center of Experimental and Molecular Medicine	Basic research	Colon and Rectal Cancer	Basic research	Alpe d'HuZes	€ 149.695,00
11011	Developing a validated Cancer-on-Chip prototype for personalized medicine	Dr. Dik van Gent	Erasmus University Medical Center Rotterdam	Molecular Genetics	Credentialing	Breast Cancer	Biomarkers	Alpe d'HuZes	€ 170.420,00
11125	Nuclear EGFR in Glioblastomas as a target for therapy	Dr. Pim French	Erasmus University Medical Center Rotterdam	Neurology	Basic research	Brain Tumor	Basic research	Alpe d'HuZes	€ 165.042,00
11163	Trojan horses against cancer: the use of harmless clostridia bacteria to continuously produce immunomodulatory anti-cancer agents specifically within the tumor	Prof. Philippe Lambin	Maastricht UMC+ (Academic Hospital Maastricht)	Academic Hospital Maastricht (azM)	Creation of modality	Not Site-Specific Cancer	Immune response modifiers	Alpe d'HuZes	€ 152.042,00
11117	Challenging the dogmatic use of ABL1-directed tyrosine kinase inhibitors in BCR-ABL1-positive acute lymphoblastic leukemia	Prof. Monique den Boer	Princess Maxima Center for Pediatric Oncology	Research Operations	Credentialing	Leukemia	Biomarkers	Alpe d'HuZes	€ 149.028,00
	Tailored lymphadenectomy using Sentinel node Navigation surgery in submucosal esophageal Adenocarcinoma Patients: SNAP-II study	Prof. Bas Weusten	UMC Utrecht	Internal Medicine & Dermatology	Clinical	Oesophageal	Interventive devices	Alpe d'HuZes	€ 201.484,50
11077	Towards understanding molecular and pre-clinical aspects of loss of protein homeostasis in cancer.	Dr. Tobias Dansen	UMC Utrecht	Biomedical Genetics	Basic research	Colon and Rectal Cancer; Not Site-Specific Cancer	Basic research	Alpe d'HuZes	€ 267.388,50
11040	Exploring the immunomodulatory activity of galectin-cytokine interactions	Dr. Victor Thijssen	VU University Medical Centre	Radiation Oncology (VUmc CCA)	Basic research	Not Site-Specific Cancer	Basic research	Alpe d'HuZes	€ 173.819,50

Total funding Unique High Risk Projects (8 projects): € 1.428.919,50

### **INFRASTRUCTURAL INITIATIVES**

Project Number	Project Title	Project Leader	Institute	Approved budget
8223	Facilitating power: collecting and managing international data on (rare) colorectal cancer predisposition syndromes.	Dr. M. Nielsen	Leiden University Medical Center	€ 45.560,48
8242	Dutch Hepatocellular Carcinoma Group biobank and prospective database	Dr. M.J. Coenraad	Leiden University Medical Center	€ 440.251,00
	CustoMICE: a facility for production and distribution of engineered mouse models for cancer research	Prof. ir. J. Jonkers	The Netherlands Cancer Institute	€ 866.548,00
8237	Biobank of 5-year lymphoma survivors as a resource to examine susceptibility genes and biomarkers for late effects of cancer treatment.	Prof. ir. F.E. van Leeuwen	The Netherlands Cancer Institute	€ 938.388,60
8244	Netherlands facility for Cancer-Immune Analysis (N-CIA)	Prof. T.N.M. Schumacher	The Netherlands Cancer Institute	€ 3.648.008,40
8254	Proton therapy research infrastructure - ProTRAIT	Prof. J.A. Langendijk	University Medical Center Groningen	€ 1.545.098,60
1X225 I	GENomics portal for precision medicine research in ONCOlogy: GENONCO	Prof. ir. E. Cuppen	UMC Utrecht	€ 1.600.778,00

Total funding Infrastructural initiatives (7 projects): € 9.084.633,08

## **IMPLEMENTATION PROJECTS**

Number		Project Leader	Institute	Approved budget
8281	Nationwide implementation of standardized structured reporting to support optimal treatment decisions	Dr. R.P.M.G. Hermens	Radboud University Medical Center	€ 264.352,43
8272	Postoperative Standardization of Care; the implementation of best practice after pancreatic resection (PORSCH trial)	Dr. H.C. van Santvoort	UMC Utrecht	€ 555.422,00

Total Funding Implementation projects (2 projects): €

819.774,43

Total funding CALL 2017-I: €

41.983.829,30

## **OVERVIEW**

OVERVIEW			
Research tracks & research phases	Number of projects	Funding	
Exploration track	38	€	20.970.175,54
Basic research	23	€	12.374.930,57
Credentialing	15	€	8.595.244,97
Development track	26	€	11.109.246,25
Creation of modality	9	€	4.179.767,99
Preclinical	2	€	1.070.152,50
Clinical	15	€	5.859.325,76
Infrastrucural initiatives	7	€	9.084.633,08
Implementation projects	2	€	819.774,43
Total	73	€	41.983.829,30

Funding types & research phases	Number of projects	Fur	Funding		
Consortia	3	€	2.529.853,70		
Creation of modality	1	€	705.363,00		
Credentialing	2	€	1.824.490,70		
Research Project	43	€	22.674.717,97		
Basic research	15	€	9.328.308,47		
Credentialing	9	€	5.381.152,65		
Creation of modality	5	€	2.326.439,49		
Preclinical	2	€	1.070.152,50		
Clinical	12	€	4.568.664,86		
Unique High Risk Project	8	€	1.428.919,50		
Basic research	4	€	755.945,00		
Credentialing	2	€	319.448,00		
Creation of modality	1	€	152.042,00		
Clinical	1	€	201.484,50		
Young Investigator Grant	10	€	5.445.930,62		
Basic research	4	€	2.290.677,10		
Creation of modality	2	€	995.923,50		
Clinical	2	€	1.089.176,40		
Credentialing	2	€	1.070.153,62		
Infrastructure	7	€	9.084.633,08		
Implementation	2	€	819.774,43		
Total funding CALL 2017-1	73	€	41.983.829,30		