



# Ministero della Salute

Direzione Generale Ricerca Sanitaria e Biomedica e della Vigilanza sugli Enti

## BANDO 2011-2012 GIOVANI RICERCATORI e RICERCA FINALIZZATA Ordinari - Giovani Ricercatori - Ricercatore Italiano all'Estero - Cofinanziati Industriali PROGETTI FINANZIATI

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### Progetti Cofinanziamento Industriale

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|------------------|---|---------------------------|--|---|---|------|
| CO-2011-02351787 | Development of a new endovascular device for the treatment of occlusive disease of large veins  | Sicilia                   |  | Metabolism disorders and cardiovascular disease | Bioengineering Sciences and Technologies            | 11   |
| CO-2011-02348468 | PREVENTION OF HAEMODIALYSIS TUNNELLED CENTRAL VENOUS CATHETER (CVC)-RELATED INFECTION: COMPARISON BETWEEN A NOVEL DOUBLE-CUFFED CVC AND THE TRADITIONAL SINGLE-CUFF CVC. A ITALIAN MULTICENTER RANDOMIZED CONTROLLED TRIAL. | Provincia autonoma Trento |  | Infection and immunity                          | Healthcare Delivery and Methodologies               | 13   |
| CO-2011-02351627 | Realization of an integrated environment for the training and the recovery of body balance  | OSPEDALE BAMBINO GESU'    |  | The new biotechnologies                         | Integrative, Functional, and Cognitive Neuroscience | 14,5 |
| CO-2011-02348049 | New Possible Approach for the Classification of Melanoma and Prediction of Response to Immunotherapy: Immunoscore and Immune Profiling  | PASCALE                   |  | Oncology  | Oncology 2 - Translational Clinical                 | 15,5 |

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## Progetti Giovani Ricercatori

|                  |   |                     |            |   |   |     |
|------------------|---|---------------------|------------|---|---|-----|
| GR-2011-02351172 | Targeting the MYC chromatin interaction network in Cancer Stem Cells  | MAGGIORE            | Biomedical | Oncology  | Genes, Genomes and Genetics                         | 6   |
| GR-2011-02347261 | HSC GENE THERAPY FOR LSDs: UNDERSTANDING THE MODALITIES OF CELL REPLACEMENT IN THE LSD BRAIN FOR IMPROVING THERAPEUTIC EFFICACY                           | SAN RAFFAELE Milano | Biomedical | Neurological diseases                           | Genes, Genomes and Genetics                         | 6   |
| GR-2011-02348313 | Role of Polycomb Repressive Complexes in Intestine Development and Colorectal Cancer Formation.   | I.E.O.              | Biomedical | Oncology  | Genes, Genomes and Genetics                         | 6   |
| GR-2011-02348836 | Dopaminergic neuronal in vivo direct reprogramming as a new regenerative approach for treating Parkinson's disease  | SAN RAFFAELE Milano | Biomedical | Neurological diseases                           | Molecular, Cellular, and Developmental Neuroscience | 6,5 |
| GR-2011-02349383 | Dissecting the epigenetic landscape of rhabdomyosarcoma: role of p38alpha kinase in the control of Polycomb Repressive Complex 2                          | SANTA LUCIA         | Biomedical | Oncology  | Genes, Genomes and Genetics                         | 7   |
| GR-2011-02347743 | Combining exome sequencing and induced pluripotent stem cells for identification of novel pathogenetic mechanisms and therapies in human cardiomyopathies | HUMANITAS           | Biomedical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics                         | 7   |

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|------------------|---|-------------------------------|------------|---|--|--------|
| GR-2011-02346946 | Use of flavonoids contained in Flavocoxid to reduce vascular damage in an experimental model of atherosclerosis   | Sicilia                       | Biomedical | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | 7      |
| GR-2011-02349787 | A non-invasive, multimodal approach to restore functional networks and cognition in Alzheimer's disease and frontotemporal dementia                             | FATEBENEFRATELLI              | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | 7,25   |
| GR-2011-02349630 | Obesity, hypertension and subclinical vascular damage in children: the role of dietary factors and lipid mediators. An epidemiological and translational study. | Veneto                        | Biomedical | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | 7,5    |
| GR-2011-02346985 | Neurological and behavioral abnormalities in Adenosine Deaminase-deficiency and their correction by therapeutical approaches.                                   | SAN RAFFAELE Milano           | Biomedical | Neurological diseases                           | Genes, Genomes and Genetics                                    | 7,5    |
| GR-2011-02346791 | Investigating the adaptive/maladaptive balance in ER-stress response: insights from a CMT1B neuropathy mouse model  | SAN RAFFAELE Milano           | Biomedical | Neurological diseases                           | Molecular, Cellular, and Developmental Neuroscience            | 7,5    |
| GR-2011-02352160 | Extraskeletal implications in Paget's disease of bone: role of p62/sequestosome   | SAN RAFFAELE Milano           | Biomedical | Metabolism disorders and cardiovascular disease | Musculoskeletal, Oral and Skin Sciences                        | 7,5    |
| GR-2011-02347991 | TNFaR-KO T cells protect from intestinal inflammation in Mice with Muc2 Mutations, a model of human ulcerative colits   | DE BELLIS                     | Biomedical | Infection and immunity                          | Immunology   | 8      |

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|------------------|--|-------------------------------|------------|--|--|------------|
| GR-2011-02351534 | Wnt5a as a key regulator of invasion in human GBM: a study on autocrine, glioma-initiating, stem-like cells                          | CASA SOLLIEVO<br>SOFFERENZA   | Biomedical | Oncology   | Cell Biology   | <b>8</b>   |
| GR-2011-02351749 | Metabolic regulation and adaptive responses sustaining metastases in breast cancer   | REGINA ELENA                  | Biomedical | Oncology   | Oncology 1 - Basic Translational                               | <b>8</b>   |
| GR-2011-02349759 | Role of gut environment in the immune reconstitution after hematopoietic stem cell transplantation (HSCT)                            | HUMANITAS                     | Biomedical | Infection and immunity   | Immunology   | <b>8</b>   |
| GR-2011-02348942 | Modularity for sensory motor control: implications of muscles synergies in motor recovery after stroke.                              | S.CAMILLO                     | Clinical   | Neurological diseases  | Biobehavioral and Behavioral Processes                         | <b>8</b>   |
| GR-2011-02351433 | Recovery of Parkinson's disease neuronal functionality by modulation of Ambra1, a novel primer of mitophagy                          | SANTA LUCIA                   | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience                      | <b>8</b>   |
| GR-2011-02348998 | Fry the brain: impact of X-ray exposure on cognitive impairment  | STELLA MARIS                  | Biomedical | Diseases of environmental origin, with reference also to the workplace | Risk, Prevention and Health Behavior                           | <b>8,5</b> |
| GR-2011-02351968 | FoxO3A meets the mitochondrial genome: may the ultimate newcomer smooth the way towards mitochondrial medicine in colorectal cancer? | DE BELLIS                     | Biomedical | Metabolism disorders and cardiovascular disease                        | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>8,5</b> |
| GR-2011-02349604 | Genetic of Panic Disorders   | BURLO GAROFALO                | Biomedical | Neurological diseases  | Genes, Genomes and Genetics                                    | <b>8,5</b> |

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|------------------|--|----------------------------|------------|---|---|------------|
| GR-2011-02348266 | Exome sequencing of osteoimmunological diseases: from diagnosis to cure of osteopetrosis and other genetic skeletal diseases   | HUMANITAS                  | Biomedical | The new biotechnologies                         | Genes, Genomes and Genetics             | <b>8,5</b> |
| GR-2011-02350264 | STUDY OF THE ROLE OF EXTRACELLULAR VESICLES IN PROMOTING MYOGENIC DIFFERENTIATION  | Marche                     | Biomedical | The new biotechnologies                         | Cell Biology                            | <b>8,5</b> |
| GR-2011-02350151 | GENOTYPE AND ENVIRONMENT INFLUENCES ON THE TUMOR PROLIFERATION DYNAMICS INFERRED WITH NEXT GENERATION SEQUENCING   | I.E.O.                     | Biomedical | Oncology  | Oncology 1 - Basic Translational        | <b>8,5</b> |
| GR-2011-02346878 | Blocking reciprocal down-regulation of sphingosine-1-phosphate receptor-1 and $\beta$ 1-adrenergic receptor as a new therapeutic strategy for improving post-ischemic left ventricular remodeling and dysfunction. | MAUGERI                    | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences | <b>8,5</b> |
| GR-2011-02348868 | EXERCISE TOLERANCE IN PATIENTS WITH LATE-ONSET POMPE DISEASE ON ENZYME REPLACEMENT THERAPY: EFFECTS OF EXERCISE TRAINING AND HYPERPROTEIC DIET.  | Friuli-Venezia Giulia      | Clinical   | Neurological diseases                           | Musculoskeletal, Oral and Skin Sciences | <b>9</b>   |
| GR-2011-02350596 | COPD and emphysema in HIV/AIDS: an example of chronic inflammation, with major genetic, environmental, clinical and public health implications leading to premature aging  | Emilia-Romagna             | Clinical   | Infection and immunity                          | AIDS and Related Research               | <b>9</b>   |

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| GR-2011-02351686 | Disrupting the WNT non-canonical axis in multiple myeloma  | SAN RAFFAELE Milano           | Biomedical | Oncology               | Oncology 1 - Basic Translational          | 9      |
| GR-2011-02350132 | ROLE OF THE GLYCOPROTEIN DICKKOPF-3 IN THE STROKE SUSCEPTIBILITY   | NEUROMED                      | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience | 9      |
| GR-2011-02351457 | Unraveling the mystery of Alzheimer's Disease-related synaptic degeneration  | SANTA LUCIA                   | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience | 9      |
| GR-2011-02348069 | New cellular and molecular mechanisms in Colitis-Associated Colorectal Cancer: implications for innovativetherapeutic approaches.  | HUMANITAS                     | Biomedical | Infection and immunity | Digestive, Kidney and Urological Systems  | 9      |
| GR-2011-02352816 | EVALUATION OF A NEW SCORE INCORPORATING ENDOTHELIAL DYSFUNCTION FOR THE ASSESSMENT OF CORONARY HEART DISEASE RISK IN PATIENTS WITH RHEUMATOID ARTHRITIS: A 3-YEAR PROSPECTIVE STUDY. | Sardegna                      | Clinical   | Infection and immunity | Musculoskeletal, Oral and Skin Sciences   | 9      |
| GR-2011-02351815 | Unraveling the molecular mechanisms of RAI pro-invasive function in glioblastoma derived cancer stem cells   | I.E.O.                        | Biomedical | Oncology               | Oncology 1 - Basic Translational          | 9      |
| GR-2011-02348411 | The 18kDa Protein TSPO is a VDAC Dependent Pathway for Metabolic Re-adaptation and Mitophagy Evasion in Glioblastoma   | REGINA ELENA                  | Biomedical | Oncology               | Cell Biology                              | 9      |

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| GR-2011-02350438 | Development of the first biomarker for diagnosis of IgA Nephropathy  | Puglia                        | Biomedical | The new biotechnologies                         | Digestive, Kidney and Urological Systems | <b>9</b>    |
| GR-2011-02352807 | Promoting effective homecare and telemonitoring for patients with implanted deep brain stimulation systems through integrated solutions for family caregivers. | MAGGIORE                      | Biomedical | Neurological diseases                           | Bioengineering Sciences and Technologies | <b>9</b>    |
| GR-2011-02349917 | Farm animal welfare and food safety: effect of on-farm and pre-slaughtering stress factors on microbiological contamination of poultry meat.                   | IZS Abruzzo e del Molise      | Biomedical | Food safety and animal welfare                  | Veterinary                               | <b>9,25</b> |
| GR-2011-02351029 | Cyclophilin A as a new therapeutic target for limb ischemia  | MONZINO                       | Biomedical | Metabolism disorders and cardiovascular disease | Vascular and Hematology                  | <b>9,5</b>  |
| GR-2011-02350544 | Role of DRP1 and mitochondrial dynamics in neuronal and muscular disorders: molecular mechanisms and therapeutics implications                                 | Lombardia                     | Biomedical | Neurological diseases                           | Musculoskeletal, Oral and Skin Sciences  | <b>9,5</b>  |
| GR-2011-02351370 | NEW GENETIC LESIONS CHARACTERIZING MARGINAL ZONE LYMPHOMAS: CLINICAL AND FUNCTIONAL IMPLICATIONS   | Piemonte                      | Biomedical | Oncology  | Oncology 1 - Basic Translational         | <b>9,5</b>  |
| GR-2011-02351220 | Targeted delivery of the ribosome-inactivating protein saporin for the treatment of bladder cancer   | SAN RAFFAELE Milano           | Biomedical | Oncology  | Oncology 2 - Translational Clinical      | <b>9,5</b>  |

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|------------------|---|-----------------------------|------------|--|---|-------------|
| GR-2011-02349732 | Human papillomavirus infection and cytological evaluation of the oral and oropharyngeal mucosa of cancer-free males at risk for sexually transmitted infections | SAN GALLICANO               | Biomedical | Infection and immunity   | Infectious Diseases and Microbiology                      | <b>9,5</b>  |
| GR-2011-02351492 | MRI examinations in patients with pacemaker or ICD: a personalized tool for the riskassessment  | ISS                         | Biomedical | Diseases of environmental origin, with reference also to the workplace | Surgical Sciences, Biomedical Imaging, and Bioengineering | <b>9,5</b>  |
| GR-2011-02349197 | Identification and Killing of Putative Cancer Stem Cells in Solid Tumors by Immunotherapy with Cytokine-Induced Killer Cells                                    | Piemonte                    | Biomedical | Oncology   | Oncology 2 - Translational Clinical                       | <b>9,5</b>  |
| GR-2011-02347600 | Stem cell dysfunction and its reversal in diabetes associated multiorgan pathology  | Emilia-Romagna              | Biomedical | Metabolism disorders and cardiovascular disease                        | Cell Biology  | <b>9,5</b>  |
| GR-2011-02348099 | Preclinical optimization of treatment with inhaled argon to improve neurological outcome and survival after cardiac arrest                                      | IZS Lombardia e dell'Emilia | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience                 | <b>9,75</b> |
| GR-2011-02346974 | Targeting inflammation in atherosclerosis: role and therapeutic potential of sphingosine 1-phosphate (S1P) and its receptors                                    | Emilia-Romagna              | Biomedical | Metabolism disorders and cardiovascular disease                        | Vascular and Hematology                                   | <b>9,75</b> |



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| GR-2011-02350662 | Establishment of Valid Pediatric Echocardiographic Nomograms: An Essential and Surprisingly Lacking Tool for the Quantification in The Performance of a Pediatric Echocardiography.                    | Toscana                       | Clinical   | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>10</b> |
| GR-2011-02351231 | Early detection of drug related falls, syncope or delirium in elderly patients admitted to the emergency department of Pisa University Hospital: possible impact on cost/benefits and clinical outcome | Toscana                       | Clinical   | Neurological diseases                           | Healthcare Delivery and Methodologies     | <b>10</b> |
| GR-2011-02346877 | Direct immunofluorescence of the skin as a tool for the diagnosis of celiac disease  | Toscana                       | Clinical   | Infection and immunity                          | Digestive, Kidney and Urological Systems  | <b>10</b> |
| GR-2011-02346845 | Towards the prediction of dyslipidemia from next generation sequencing data  | Veneto                        | Biomedical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics               | <b>10</b> |
| GR-2011-02346749 | IDENTIFICATION OF NEW GENES FOR RARE NEURODEVELOPMENTAL DISORDERS BY HOMOZIGOSITY MAPPING/NEXT GENERATION SEQUENCING AND FUNCTIONAL STUDIES IN ZEBRAFISH   | GASLINI                       | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>10</b> |
| GR-2011-02352681 | Central Core Disease: understand the mechanisms leading to mitochondrial deficiency/damage in cores to develop effective pharmacological treatments  | Abruzzo                       | Biomedical | Metabolism disorders and cardiovascular disease | Musculoskeletal, Oral and Skin Sciences   | <b>10</b> |

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| GR-2011-02350912 | Malignant Hyperthermia, from anesthesia to heat- and exertion-induced episodes: understand the molecular mechanisms to develop innovative therapeutic interventions.                 | Abruzzo                       | Biomedical | Metabolism disorders and cardiovascular disease | Musculoskeletal, Oral and Skin Sciences   | <b>10</b> |
| GR-2011-02350886 | Molecular dissection of the selective autophagic response to Mycobacterium Tuberculosis infection  | SPALLANZANI                   | Biomedical | Infection and immunity                          | Infectious Diseases and Microbiology      | <b>10</b> |
| GR-2011-02347880 | ChroP, a combined ChIP-Mass Spectrometry proteomics approach, to dissect composition and plasticity of the modificone and intractome of cis-regulatory regions of inflammatory genes | I.E.O.                        | Biomedical | The new biotechnologies                         | Genes, Genomes and Genetics               | <b>10</b> |
| GR-2011-02350585 | Identification of molecular targets of anti-tumor effect of caloric restriction.   | I.E.O.                        | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>10</b> |
| GR-2011-02348173 | Growth and regression of corneal neovessels: proteomic and cellular fingerprint.   | SAN RAFFAELE Milano           | Clinical   | Infection and immunity                          | Brain Disorders and Clinical Neuroscience | <b>10</b> |
| GR-2011-02348160 | Age-induced reduction of neurogenesis induces functional alterations of the blood brain barrier contributing to the detrimental outcome of stroke in the elderly.                    | SAN RAFFAELE Milano           | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>10</b> |
| GR-2011-02347381 | Interactions of genotype, phenotype, local immune system and microbiologic environment in the pathogenesis of Hirschsprung's disease associated enterocolitis                        | GASLINI                       | Biomedical | Infection and immunity                          | Digestive, Kidney and Urological Systems  | <b>10</b> |

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| GR-2011-02348048 | GRADE-Dispute. Improving appropriateness and transparency of processes to develop guidelines on controversial clinical areas: evidence, values and context preferences to help mitigate disputes and enhance the applicability of recommendations to practice. | GALEAZZI                      | Clinical   | Neurological diseases  | Healthcare Delivery and Methodologies     | <b>10</b>    |
| GR-2011-02349282 | ANALYSIS OF THE IN VITRO AND IN VIVO ROLE OF ET-1/ETAR AND CD38/CD31 AXES IN CHRONIC LYMPHOCYTIC LEUKEMIA: PROGNOSTIC, FUNCTIONAL AND THERAPEUTIC IMPLICATIONS   | Emilia-Romagna                | Biomedical | Oncology               | Oncology 1 - Basic Translational          | <b>10</b>    |
| GR-2011-02348250 | Electrophysiological, behavioural and functional connectivity markers of fluctuating cognition and attention disorders in Dementia with Lewy Bodies and Parkinson's Disease with Dementia  | S.CAMILLO                     | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience | <b>10,25</b> |
| GR-2011-02347383 | Development and validation of novel methods for the in vivo assessment of distinct patterns of connectivity in the disorders of consciousness  | Toscana                       | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience | <b>10,25</b> |
| GR-2011-02351711 | Effects of early pulmonary rehabilitation and long-term exercise on functioning, quality of life and postoperative outcome in lung cancer patients.  | ARCISPEDALE-Reggio Emilia     | Clinical   | Oncology               | Risk, Prevention and Health Behavior      | <b>10,25</b> |
| GR-2011-02352546 | Phosphomimic-peptide technology targeting LTCCs: a new tool for modulating conditions of primary and post-inflammatory cardiomyopathy  | HUMANITAS                     | Biomedical | Infection and immunity | Cardiovascular and Respiratory Sciences   | <b>10,5</b>  |

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| GR-2011-02352256 | Unravelling the glycosphingolipid metabolic circuits in cancer  | SDN                           | Biomedical | Oncology  | Cell Biology                              | <b>10,5</b> |
| GR-2011-02351977 | Genetic mutations in the encoding gene and plasmatic activity of the hemostatic metalloprotease ADAMTS <sub>13</sub> in deep vein thrombosis. | MAGGIORE                      | Biomedical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics               | <b>10,5</b> |
| GR-2011-02348622 | Risk score of developing post operative atrial fibrillation   | ISS                           | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>10,5</b> |
| GR-2011-02348633 | MECHANISMS OF SEIZURE TERMINATION IN FOCAL EPILEPSY   | CARLO BESTA                   | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>10,5</b> |
| GR-2011-02350583 | Atrial Dilatation as a substrate for Atrial Fibrillation in Hypertrophic cardiomyopathy: cellular mechanisms and novel therapeutic approaches | Toscana                       | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>10,5</b> |
| GR-2011-02347943 | Genetic and Lifestyle Factors in gastric cancer epidemiology: enhancing research through the establishment of an international consortium     | SAN RAFFAELE Pisana-Roma      | Biomedical | Oncology  | Population Sciences and Epidemiology      | <b>10,5</b> |
| GR-2011-02349694 | Dissecting the TRIM8 role in the pathogenesis of glioma and therapy   | CASA SOLLIEVO SOFFERENZA      | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>10,5</b> |
| GR-2011-02346947 | HLA-G as Prognostic Marker for Cytomegalovirus Infection and Clinically Relevant Heart Allograft Outcomes                                     | Emilia-Romagna                | Clinical   | Infection and immunity                          | Infectious Diseases and Microbiology      | <b>10,5</b> |

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| GR-2011-02349870 | Methylation status in selected cell genes and in Papillomavirus genome as a marker of aggressiveness in cervical lesions.   | Piemonte                      | Biomedical | Oncology  | Population Sciences and Epidemiology    | <b>10,5</b> |
| GR-2011-02347202 | Role of erythrocyte membrane microdomains in Plasmodium falciparum infection  | ISS                           | Biomedical | Infection and immunity                          | Infectious Diseases and Microbiology    | <b>10,5</b> |
| GR-2011-02350249 | Obesity-associated Flt3 mutations in Acute Promyelocytic Leukemia: investigating a novel paradigm for the cancer-promoting effect of obesity                                  | I.E.O.                        | Biomedical | Oncology  | Oncology 1 - Basic Translational        | <b>10,5</b> |
| GR-2011-02351128 | Targeted smart nanomedicines for the treatment of colorectal cancer metastasis  | I. O. V.                      | Biomedical | Oncology  | Oncology 2 - Translational Clinical     | <b>10,5</b> |
| GR-2011-02347170 | The role of immune responses against host microbiota in the modulation of host inflammatory, metabolomic and lipidic profiles and in the progression atherosclerotic disease. | SAN RAFFAELE Milano           | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences | <b>10,5</b> |
| GR-2011-02350937 | ANALYSIS OF GENOMIC ALTERATIONS DRIVING METASTASIS AND PROGRESSION IN PAPILLARY THYROID CARCINOMA   | ARCISPEDALE-Reggio Emilia     | Biomedical | Oncology  | Oncology 1 - Basic Translational        | <b>10,5</b> |
| GR-2011-02350922 | Whole exome sequencing to discover lung tumor predisposition in women with previous breast cancer.  | AOU San Martino-IST - Genova  | Biomedical | Oncology  | Oncology 2 - Translational Clinical     | <b>10,5</b> |

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|------------------|--|-----------------------------|------------|---|--|-------------|
| GR-2011-02348232 | Brain-Heart Pathways to Essential Hypertension: Is There a Neural Phenotype of Cardiovascular Risk?  | SANTA LUCIA                 | Biomedical | Metabolism disorders and cardiovascular disease | Biobehavioral and Behavioral Processes | <b>10,5</b> |
| GR-2011-02351643 | Connecting mitochondrial dynamics with T cell development and transformation.  | SANTA LUCIA                 | Biomedical | Oncology  | Cell Biology                           | <b>10,5</b> |
| GR-2011-02351661 | UTX-driven genomic instability in the pathogenesis of multiple myeloma   | SAN RAFFAELE Milano         | Biomedical | Oncology  | Oncology 1 - Basic Translational       | <b>11</b>   |
| GR-2011-02352001 | Molecular and functional characterization of Th17 cell populations in the gut.   | MAGGIORE                    | Biomedical | Infection and immunity                          | Immunology                             | <b>11</b>   |
| GR-2011-02348730 | Determining Resolvin D1-Regulated Mechanisms to Harness Resolution of Inflammation   | Abruzzo                     | Biomedical | Infection and immunity                          | Immunology                             | <b>11</b>   |
| GR-2011-02350591 | An epizootiological survey of bats as reservoirs of emerging zoonotic viruses in Italy: implications for public health and biological conservation | IZS Lombardia e dell'Emilia | Biomedical | Food safety and animal welfare                  | Veterinary                             | <b>11</b>   |
| GR-2011-02350559 | Adherence to chronic polytherapy after myocardial infarction: a multilevel analysis of Patient, General Practitioner and Hospital of discharge     | Lazio                       | Clinical   | Metabolism disorders and cardiovascular disease | Population Sciences and Epidemiology   | <b>11</b>   |
| GR-2011-02348917 | Application of a Chemogenomics Strategy to Modulate EVI-1 in Acute Myeloid Leukemia  | Umbria                      | Biomedical | Oncology  | Oncology 2 - Translational Clinical    | <b>11</b>   |

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|------------------|--|----------------------------|------------|---|---|-----------|
| GR-2011-02348722 | Genome-wide analyses to improve prognostic and therapeutic strategies in neuroblastoma   | SDN                        | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>11</b> |
| GR-2011-02351483 | Modulation of hypoxia-inducible factor (HIF) by synthetic PHD2 inhibitors: a new approach for an effective treatment of ischemic heart failure | SAN DONATO                 | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>11</b> |
| GR-2011-02351489 | FAMILIA: Family-based MuLti-Integrated Approach for the identification of a non-redundant set of parathyroid cancer biomarkers                 | CASA SOLLIEVO SOFFERENZA   | Biomedical | Oncology  | Healthcare Delivery and Methodologies     | <b>11</b> |
| GR-2011-02351626 | Identification of common pathways that drive the metastatic disease through miRNA profiling of transgenic mouse models and human cancers       | MAGGIORE                   | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>11</b> |
| GR-2011-02348455 | Development of cytochrome c assay marker of ischemia/reperfusion damage to the heart   | I.E.O.                     | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>11</b> |
| GR-2011-02347754 | Development of Next Generation Sequencing tools for the diagnosis of neurodevelopmental disorders  | Veneto                     | Biomedical | Neurological diseases                           | Genes, Genomes and Genetics               | <b>11</b> |
| GR-2011-02348985 | NEUROMODULATION STRATEGIES TO ENHANCE THE EFFECTS OF GAIT REHABILITATION IN MULTIPLE SCLEROSIS PATIENTS WITH CEREBELLAR ATAXIA                 | MONDINO                    | Clinical   | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>11</b> |

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|------------------|--|----------------------------|------------|--|---|-----------|
| GR-2011-02348356 | NOVEL BIOMARKERS IN MALIGNANT PLEURAL MESOTHELIOMA: FROM MOLECULAR PREDICTORS OF RESPONSE-TO-THERAPY TO NOVEL MULTIMODAL THERAPEUTIC STRATEGIES  | Piemonte                   | Biomedical | Diseases of environmental origin, with reference also to the workplace | Oncology 1 - Basic Translational                    | <b>11</b> |
| GR-2011-02346941 | Non-coding RNA-mediated control of human regulatory T cell development, function, and stability in health and disease.   | SAN RAFFAELE Milano        | Biomedical | Infection and immunity   | Immunology  | <b>11</b> |
| GR-2011-02346912 | Cell autophagy modulation via energy balance regulation: age-dependent outcomes on inflammation, axon regeneration and neuropathic pain in murine models of peripheral nerve lesion.             | SANTA LUCIA                | Biomedical | Neurological diseases  | Molecular, Cellular, and Developmental Neuroscience | <b>11</b> |
| GR-2011-02348234 | A CAPSULE ENDOSCOPY AND DOUBLE BALLOON ENTEROSCOPY SEQUENTIAL APPROACH FOR EARLY DETECTION OF GASTROINTESTINAL TUMORS IN CELIAC DISEASE: A PROSPECTIVE TRIAL                                     | MAGGIORE                   | Clinical   | Oncology   | Digestive, Kidney and Urological Systems            | <b>11</b> |
| GR-2011-02349628 | Persistent organic pollutants and heavy metals levels: the role of diet, lifestyle and environment in a series of 456 residents of Tuscany in relation to breast cancer and non-Hodgkin lymphoma | Toscana                    | Biomedical | Oncology   | Population Sciences and Epidemiology                | <b>11</b> |
| GR-2011-02351798 | Combined behavioural and non invasive brain stimulation interventions for treating body image distortions in Anorexia Nervosa  | SANTA LUCIA                | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience           | <b>11</b> |



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|------------------|---|-------------------------------|------------|---|---|--------------|
| GR-2011-02351638 | Spinocerebellar ataxia type 28: from molecular pathogenesis to preclinical treatment  | SAN RAFFAELE Milano           | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience           | <b>11</b>    |
| GR-2011-02351027 | Extracorporeal treatments for modulation of innate immunity and prevention of sepsis-induced acute kidney injury  | Puglia                        | Biomedical | Infection and immunity                          | Digestive, Kidney and Urological Systems            | <b>11</b>    |
| GR-2011-02352225 | Multiple sclerosis rebound upon fingolimod discontinuation: evidence and mechanisms involved  | Toscana                       | Biomedical | Neurological diseases                           | Immunology  | <b>11</b>    |
| GR-2011-02347190 | Clinical, genetic and neuroimaging profiles in Italian patients with Fronto-Temporal Dementia   | Toscana                       | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience           | <b>11,25</b> |
| GR-2011-02352031 | Measures and mechanisms of recovery of consciousness in severely brain-injured patients: a longitudinal, multimodal study                                     | Lombardia                     | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience           | <b>11,25</b> |
| GR-2011-02348561 | Developing innovative technological platforms to improve efficacy and safety of artificial nucleases-mediated gene editing in human hematopoietic stem cells. | SAN RAFFAELE Milano           | Biomedical | The new biotechnologies                         | Genes, Genomes and Genetics                         | <b>11,5</b>  |
| GR-2011-02348150 | Adenosine A2A receptors as a possible therapeutic target in Niemann-Pick type C disease.  | ISS                           | Biomedical | Neurological diseases                           | Molecular, Cellular, and Developmental Neuroscience | <b>11,5</b>  |
| GR-2011-02352282 | Expanding the potentials of non-invasive diagnosis of cardiac amyloidosis and tailoring appropriate medical and surgical strategies in the clinical practice. | Emilia-Romagna                | Clinical   | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences             | <b>11,5</b>  |

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|------------------|--|-------------------------------|------------|---|---|-------------|
| GR-2011-02351151 | Regulation of mitochondria-endoplasmic reticulum tethering by Parkin: implication for Parkinson's disease  | S.CAMILLO                     | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>11,5</b> |
| GR-2011-02348227 | Development of a rapid, fast and low-cost analytical kit to evaluate quality and safety of milk and dairy products   | IZS Lazio e della Toscana     | Biomedical | Food safety and animal welfare                  | Veterinary                                | <b>11,5</b> |
| GR-2011-02351217 | MULTIMODAL MAGNETIC RESONANCE IMAGING DIAGNOSIS OF FRONTOTEMPORAL LOBAR DEGENERATION (FTLD): USING SUPERVISED MACHINE LEARNING TECHNIQUES TO CLASSIFY INDIVIDUAL FTLD AND ALZHEIMER'S DISEASE PATIENTS | SAN RAFFAELE Milano           | Clinical   | Neurological diseases                           | Biobehavioral and Behavioral Processes    | <b>11,5</b> |
| GR-2011-02348567 | Disclosing ID4-dependent cross-talk between basal-like breast cancer cells and tumor associated macrophages  | REGINA ELENA                  | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>11,5</b> |
| GR-2011-02352026 | Detecting copy number variants from whole-exome sequencing data applied to acute myeloid leukemias   | Toscana                       | Biomedical | The new biotechnologies                         | Genes, Genomes and Genetics               | <b>11,5</b> |
| GR-2011-02347781 | Role of microRNAs in modulating platelet function in patients with acute coronary syndromes.   | Campania                      | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>11,5</b> |
| GR-2011-02351803 | Multi-Scale Modeling for Predictive Characterization of Ligaments and Grafts Behavior in ACL Reconstruction  | RIZZOLI                       | Biomedical | The new biotechnologies                         | Musculoskeletal, Oral and Skin Sciences   | <b>11,5</b> |

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|------------------|--|-------------------------------|------------|---|---|-------------|
| GR-2011-02348423 | Role of alternative polyadenylation in cancer cells  | SANTA LUCIA                   | Biomedical | Oncology  | Genes, Genomes and Genetics                               | <b>11,5</b> |
| GR-2011-02349580 | THE ROLE OF MACROPHAGES IN PRIMARY BILIARY CIRRHOSIS: NOVEL TARGETS FOR IMMUNE INTERVENTION  | HUMANITAS                     | Biomedical | Infection and immunity                          | Immunology  | <b>11,5</b> |
| GR-2011-02347198 | Protective role of HSPB8 in motor neuron diseases (MNDs)   | MONDINO                       | Biomedical | Neurological diseases                           | Molecular, Cellular, and Developmental Neuroscience       | <b>11,5</b> |
| GR-2011-02349075 | Cdk5 in tumor progression  | HUMANITAS                     | Biomedical | Oncology  | Oncology 1 - Basic Translational                          | <b>11,5</b> |
| GR-2011-02351049 | Profiling of hepatocellular miRNA carried by circulating hepatitis B virus surface antigen particles: a non invasive tool to identify clinically relevant miRNA signatures | Toscana                       | Biomedical | Infection and immunity                          | Infectious Diseases and Microbiology                      | <b>11,5</b> |
| GR-2011-02347124 | SThARS: Surgical Training in identification and isolation of tubular structures with hybrid Augmented Reality Simulation   | Toscana                       | Biomedical | Metabolism disorders and cardiovascular disease | Surgical Sciences, Biomedical Imaging, and Bioengineering | <b>11,5</b> |
| GR-2011-02349436 | Evaluation of the epigenetic signature in coronary atherosclerotic lesion progression by CT angiography  | SDN                           | Clinical   | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences                   | <b>11,5</b> |

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|------------------|--|-------------------------------|------------|---|--|-------------|
| GR-2011-02347192 | Proof of concept studies of SIRT6 inhibitors for treating type II diabetes   | AOU San Martino-IST - Genova  | Biomedical | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>11,5</b> |
| GR-2011-02349632 | Risk assessment of arsenic exposure from rice-based food in children with celiac disease: study of urinary metabolic profiles and genetic polymorphisms.                                 | OSPEDALE BAMBINO GESU'        | Biomedical | Food safety and animal welfare                  | Veterinary   | <b>11,5</b> |
| GR-2011-02346742 | Noncoding RNAs and Doxorubicin: role of microRNAs as early circulating biomarkers of cardiotoxicity and involvement of small and long non coding RNAs in drug-induced heart dysfunction. | MONZINO                       | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences                        | <b>11,5</b> |
| GR-2011-02350639 | Optogenetic dissection of Striatum-Globus pallidus connection in a model of DYT1 dystonia.   | SANTA LUCIA                   | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>11,5</b> |
| GR-2011-02348732 | Role and therapeutic targeting of follicular helper T cells in autoimmune diabetes and rheumatoid arthritis  | SAN RAFFAELE Milano           | Biomedical | Infection and immunity                          | Immunology   | <b>11,5</b> |
| GR-2011-02348813 | Genomic instability in Head&Neck cancers: Role of Gain of Function activity (GOF) of p53 mutants   | REGINA ELENA                  | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | <b>11,5</b> |
| GR-2011-02350494 | Efficacy of Multiple Nonpharmacological interventions in individuals with subjective memory complaints   | FATEBENEFRATELLI              | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>11,5</b> |

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|------------------|--|----------------------------|------------|------------------------|---|--------------|
| GR-2011-02350817 | Cross Sectional study to evaluate the interactions between gut microflora and immune system at the cross-road of the pathogenesis of Inflammatory Bowel Diseases and Irritable Bowel Syndrome. | ISS                        | Biomedical | Infection and immunity | Infectious Diseases and Microbiology                | <b>11,5</b>  |
| GR-2011-02349539 | The long pentraxin PTX <sub>3</sub> as a functional ancestor of antibodies in the immune response to <i>Aspergillus fumigatus</i>  | HUMANITAS                  | Biomedical | Infection and immunity | Immunology  | <b>11,5</b>  |
| GR-2011-02347324 | Generating stem cell-like T cells to improve immune reconstitution and anti-tumor immunity   | HUMANITAS                  | Biomedical | Infection and immunity | Immunology  | <b>11,5</b>  |
| GR-2011-02346826 | Pleiotropic transcriptional control mechanisms of CD49d expression in trisomy 12 chronic lymphocytic leukemia: implications for novel therapeutic approaches                                   | C.R.O. AVIANO              | Biomedical | Oncology               | Oncology 1 - Basic Translational                    | <b>11,75</b> |
| GR-2011-02352674 | Daily at-home follow-up of Parkinson's Disease patients motor performance through robotic and portable devices   | SAN RAFFAELE Pisana-Roma   | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience           | <b>11,75</b> |
| GR-2011-02352187 | OVERNUTRITION AND BRAIN HEALTH IMPAIRMENT: EPIGENETIC MECHANISMS POTENTIALLY CORRELATING METABOLIC AND NEURODEGENERATIVE DISEASES  | SAN RAFFAELE Pisana-Roma   | Biomedical | Neurological diseases  | Emerging Technologies and Training in Neurosciences | <b>12</b>    |
| GR-2011-02349998 | Neurophysiological markers of neuroplasticity in normal and pathological aging   | FATEBENEFRATELLI           | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience           | <b>12</b>    |

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|------------------|---|-------------------------------|------------|---|---|-----------|
| GR-2011-02352752 | Biomarkers of cardiovascular risk and disease activity in patients with psoriatic arthritis: modifications induced by treatment with TNF- $\gamma$ blockers                                 | MONZINO                       | Biomedical | Infection and immunity                          | Immunology                                | <b>12</b> |
| GR-2011-02350450 | Determinants of the interindividual variability in responsiveness to low-dose aspirin in patients with and without diabetes: insights into platelet proteome and microRNA profile           | Abruzzo                       | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>12</b> |
| GR-2011-02349775 | CCR5 based vectored-immunoprophylaxis in the protection against HIV Infection   | SAN RAFFAELE Milano           | Biomedical | Infection and immunity                          | AIDS and Related Research                 | <b>12</b> |
| GR-2011-02349822 | N-terminal truncated A $\beta$ pE3-42 Oligomers and Glutaminyl Cyclase Activity in the Early Diagnosis and Clinical Progression of Typical and Atypical Alzheimer's Disease. A cohort study | SANTA LUCIA                   | Clinical   | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>12</b> |
| GR-2011-02349273 | Effect of proteasome and VEGF receptor inhibitors on NKG2D ligand expression on hepatocellular carcinoma cells: implications for immunotherapy of liver cancer.                             | SAN MATTEO                    | Biomedical | Oncology  | Oncology 2 - Translational Clinical       | <b>12</b> |
| GR-2011-02352109 | CLONAL HETEROGENEITY AND CLONAL PROGRESSION IN THE LEUKEMIC TRANSFORMATION OF CHRONIC MYELOPROLIFERATIVE NEOPLASMS  | Toscana                       | Biomedical | Oncology  | Oncology 2 - Translational Clinical       | <b>12</b> |

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|------------------|---|----------------------------|------------|---|--|-----------|
| GR-2011-02350060 | A new system for integrating monitoring of neuromuscular and cardiovascular activity during free living: setup and clinical validation in patients affected by cardiac arrhythmias and neurological disorders | Toscana                    | Clinical   | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences                        | <b>12</b> |
| GR-2011-02348280 | Gut to brain interaction in autism. Role of probiotics on clinical, biochemical and neurophysiologic parameters.  | STELLA MARIS               | Clinical   | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>12</b> |
| GR-2011-02350094 | Exploiting the Protein Corona effect for biomarker discovery and targeting of nanomedicines in pancreatic cancer  | REGINA ELENA               | Biomedical | The new biotechnologies                         | Biological Chemistry and Macromolecular Biophysics             | <b>12</b> |
| GR-2011-02350447 | Do autoantibodies predict the onset of autoimmune diseases? A 13-year population-based study to determine the risk of developing autoimmunity in a Northern Italian population                                | HUMANITAS                  | Clinical   | Infection and immunity                          | Immunology   | <b>12</b> |
| GR-2011-02352151 | Natural Killer cell-based immunotherapy for high-risk Neuroblastoma: pharmacological treatment to efficiently improve the expression of activating ligands.   | OSPEDALE BAMBINO GESU'     | Biomedical | Oncology  | Oncology 2 - Translational Clinical                            | <b>12</b> |
| GR-2011-02351636 | Molecular and genetic investigations of the role of BMP15 oocyte-derived growth factor in female fertility  | AUXOLOGICO                 | Biomedical | The new biotechnologies                         | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>12</b> |

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|------------------|---|-------------------------------|------------|-------------------------|--|-----------|
| GR-2011-02348535 | DISSECTING THE MOLECULAR BASES OF ACQUIRED RESISTANCE TO BRAF INHIBITORS IN METASTATIC MELANOMA: TOWARDS A MULTIDRUG APPROACH   | Toscana                       | Biomedical | Oncology                | Oncology 1 - Basic Translational                               | <b>12</b> |
| GR-2011-02350476 | Role of microRNAs in immunogenic tumor cell death   | C.R.O. AVIANO                 | Biomedical | Oncology                | Oncology 2 - Translational Clinical                            | <b>12</b> |
| GR-2011-02351422 | The role of inflammatory cytokines in the pathophysiology of mood disturbances in multiple sclerosis  | SANTA LUCIA                   | Biomedical | Neurological diseases   | Integrative, Functional, and Cognitive Neuroscience            | <b>12</b> |
| GR-2011-02351396 | OMICS biomarkers of xenobiotic- and radiation-induced ovarian failure in farm animals - Impact on animal production and translational research for human reproductive medicine. | IZS Puglia e della Basilicata | Biomedical | The new biotechnologies | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>12</b> |
| GR-2011-02351355 | Identification of new approaches targeting aneuploidy and chromosomal instability in breast and colon cancer  | REGINA ELENA                  | Biomedical | Oncology                | Oncology 1 - Basic Translational                               | <b>12</b> |
| GR-2011-02351347 | NEUROIMAGING AND CLINICAL MARKERS OF CHANGE IN BORDERLINE PERSONALITY DISORDER AFTER METACOGNITIVE INTERPERSONAL THERAPY  | FATEBENEFRATELLI              | Biomedical | Neurological diseases   | Brain Disorders and Clinical Neuroscience                      | <b>12</b> |



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|------------------|--|-------------------------------|------------|---|---|-----------|
| GR-2011-02348899 | INNOVATIVE DEVELOPMENT OF A DECELLULARIZED EQUINE-DERIVED TENDON MATRIX AS IMPLANTABLE BIOMIMETIC SUPPORT FOR TENDON AND LIGAMENT REPAIR | GALEAZZI                      | Biomedical | The new biotechnologies                         | Musculoskeletal, Oral and Skin Sciences                   | <b>12</b> |
| GR-2011-02348929 | Neurological Perspectives On Motor Deficit In Autism Spectrum Disorders  | MEDEA                         | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                 | <b>12</b> |
| GR-2011-02347041 | Dissecting phenotypic and genetic heterogeneity in Italian ischemic stroke patients.   | CARLO BESTA                   | Clinical   | Neurological diseases                           | Genes, Genomes and Genetics                               | <b>12</b> |
| GR-2011-02346829 | lh loss of function as a mechanism underlying the selective vulnerability of nigral dopamine neurons in Parkinson's disease              | Toscana                       | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                 | <b>12</b> |
| GR-2011-02348129 | Hemodynamic and Biomarkers for Clinical Risk Stratification of Ascending Thoracic Aneurysm with Bicuspid Aortic Valve                    | Sicilia                       | Biomedical | Metabolism disorders and cardiovascular disease | Surgical Sciences, Biomedical Imaging, and Bioengineering | <b>12</b> |
| GR-2011-02347925 | Dissecting HBV immunopathogenesis through the use of intravital microscopy   | SAN RAFFAELE Milano           | Biomedical | Infection and immunity                          | Immunology  | <b>12</b> |
| GR-2011-02347441 | MYC/miR-17~92 axis a new potential target therapy in lymphoproliferative disorders   | C.R.O. AVIANO                 | Biomedical | Oncology  | Oncology 1 - Basic Translational                          | <b>12</b> |

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|------------------|---|-------------------------------|------------|---|---|--------------|
| GR-2011-02347879 | Selective cerebrospinal fluid hypothermia: bioengineering development and in vivo study of an intraventricular cooling device (V-Cool) for acute stroke therapy   | CARLO BESTA                   | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>12</b>    |
| GR-2011-02347906 | The kinetochore NDC80 complex as a novel anticancer drug target   | I.E.O.                        | Biomedical | Oncology  | Oncology 2 - Translational Clinical       | <b>12</b>    |
| GR-2011-02349761 | Action observation therapy: a chance for Parkinson Disease patients of improving mobility through a home-based training.  | SAN RAFFAELE Pisana-Roma      | Clinical   | Neurological diseases                           | Biobehavioral and Behavioral Processes    | <b>12,25</b> |
| GR-2011-02351736 | Neuromedin U pathway in the control of obesity and other hypothalamus-regulated phenotypes  | Molise                        | Biomedical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics               | <b>12,25</b> |
| GR-2011-02350296 | A novel test to detect high risk human papillomavirus DNA in women with high-grade cervical intraepithelial neoplasia with self-collected urine samples. Acceptability, reliability and diagnostic accuracy of self-collected urine for HPV DNA testing with HC | Toscana                       | Clinical   | Oncology  | Oncology 2 - Translational Clinical       | <b>12,25</b> |
| GR-2011-02351079 | L-SELECTIN DOWN-MODULATION BY HIV-1: A NOVEL HALLMARK OF INFECTION WITH POTENTIAL IMPLICATIONS FOR PATHOGENESIS   | OSPEDALE BAMBINO GESU'        | Biomedical | Infection and immunity                          | AIDS and Related Research                 | <b>12,5</b>  |

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**PROGETTI FINANZIATI**

| CODICE           | PROGETTO  | DESTINATARIO<br>ISTITUZIONALE | Tipo       | Area  | Classificazione<br>1 Liv.                           | SCORE.      |
|------------------|---|-------------------------------|------------|---|---|-------------|
| GR-2011-02351086 | Looking for new insight on Omega-3 fatty acids role on cognitive decline and brain dysfunctions in age-related disorders  | SANTA LUCIA                   | Biomedical | Neurological diseases                           | Biobehavioral and Behavioral Processes              | <b>12,5</b> |
| GR-2011-02347854 | Meningioma and venous thromboembolism   | MAGGIORE                      | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences             | <b>12,5</b> |
| GR-2011-02351814 | Role of HMGB1 redox forms in satellite cells bioactivities and skeletal muscle regeneration.  | SAN RAFFAELE Milano           | Biomedical | Neurological diseases                           | Musculoskeletal, Oral and Skin Sciences             | <b>12,5</b> |
| GR-2011-02351557 | New tools for individual risk assessment and treatment assignment in prostate cancer patients   | ISS                           | Biomedical | Oncology  | Oncology 2 - Translational Clinical                 | <b>12,5</b> |
| GR-2011-02351400 | Exploitation of human NK cell-derived exosomes as cell-free support in tumor immunotherapy  | ISS                           | Biomedical | Oncology  | Oncology 2 - Translational Clinical                 | <b>12,5</b> |
| GR-2011-02347606 | Application of molecular methodologies including multilocus sequence typing (MLST) and microsatellite-based genotyping to determine the frequency and distribution of clinically important Candida species in hospital care units and use of the whole genome m | NEUROLESI                     | Biomedical | Infection and immunity                          | Infectious Diseases and Microbiology                | <b>12,5</b> |
| GR-2011-02348047 | Dissecting the role of peroxisome proliferator-activated receptor gamma coactivator-1alpha (PGC-1a) and adiposetriglyceride lipase (ATGL) in Parkinson's disease  | SAN RAFFAELE Pisana-Roma      | Biomedical | Neurological diseases                           | Molecular, Cellular, and Developmental Neuroscience | <b>12,5</b> |

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| CODICE           | PROGETTO   | DESTINATARIO<br>ISTITUZIONALE | Tipo       | Area                  | Classificazione<br>1 Liv.                                 | SCORE.      |
|------------------|--|-------------------------------|------------|-----------------------|---|-------------|
| GR-2011-02348526 | The role of the Rho-GTPase proteins in the aetiology of Alzheimer's Disease  | FATEBENEFRATELLI              | Biomedical | Neurological diseases | Brain Disorders and Clinical Neuroscience                 | <b>12,5</b> |
| GR-2011-02351397 | System for the Automatic Artifact Detection and Removal from Electroencephalographic Signals   | NEUROLESI                     | Biomedical | Neurological diseases | Bioengineering Sciences and Technologies                  | <b>12,5</b> |
| GR-2011-02350519 | How does the cerebellum contribute to the pathophysiology of dystonia? A multidisciplinary approach with ad-hoc behavioral tasks and cerebellar stimulation with transcranial Direct Current Stimulation (tDCS)                    | Veneto                        | Biomedical | Neurological diseases | Integrative, Functional, and Cognitive Neuroscience       | <b>12,5</b> |
| GR-2011-02349626 | Automated digital scanning and diagnosis of tissues using multimodal non-linear optical microscopy   | Toscana                       | Biomedical | Oncology              | Surgical Sciences, Biomedical Imaging, and Bioengineering | <b>12,5</b> |
| GR-2011-02346964 | A combination of miR501-5p and mTOR as molecular markers for the prognosis of renal carcinomas   | Emilia-Romagna                | Biomedical | Oncology              | Oncology 1 - Basic Translational                          | <b>12,5</b> |
| GR-2011-02350175 | Role of the BMP4 signaling pathway in the pathogenesis of Juvenile Myelomonocytic Leukemia and childhood Myelodysplastic Syndromes by utilizing a new human patient-specific disease model to develop novel therapeutic approaches | OSPEDALE BAMBINO GESU'        | Biomedical | Oncology              | Oncology 2 - Translational Clinical                       | <b>12,5</b> |
| GR-2011-02347036 | microRNAs dysregulation associated with inflammatory synaptopathy in a mouse model of MS.  | SANTA LUCIA                   | Biomedical | Neurological diseases | Brain Disorders and Clinical Neuroscience                 | <b>12,5</b> |

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| CODICE           | PROGETTO   | DESTINATARIO<br>ISTITUZIONALE    | Tipo       | Area  | Classificazione<br>1 Liv.                                      | SCORE.      |
|------------------|--|----------------------------------|------------|---|--|-------------|
| GR-2011-02347820 | Identification of risk variants associated with susceptibility to sporadic amyotrophic lateral sclerosis using an exome sequencing approach. | AUXOLOGICO                       | Biomedical | Neurological diseases                           | Genes, Genomes and Genetics                                    | <b>12,5</b> |
| GR-2011-02347129 | Next-generation sequencing to study the penetrance of dominantly inherited porphyrias  | MAGGIORE                         | Clinical   | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics                                    | <b>12,5</b> |
| GR-2011-02347678 | Genetic basis of steroid resistant nephrotic syndrome and implications for therapy   | Lombardia                        | Biomedical | The new biotechnologies                         | Genes, Genomes and Genetics                                    | <b>12,5</b> |
| GR-2011-02352269 | Induction of a suspended animation state by inhibition of neurons of the central nervous pathway for thermoregulatory cold defense in pig    | Ist.Sci. Neurologiche<br>Bologna | Biomedical | The new biotechnologies                         | Biobehavioral and Behavioral Processes                         | <b>12,5</b> |
| GR-2011-02347377 | Microfluidic integration of a model of the blood-brain barrier to investigate immune trafficking in multiple sclerosis                       | HUMANITAS                        | Biomedical | The new biotechnologies                         | Bioengineering Sciences and Technologies                       | <b>12,5</b> |
| GR-2011-02347419 | Gastro-intestinal bacteria, obesity and insulin resistance   | Emilia-Romagna                   | Biomedical | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>12,5</b> |
| GR-2011-02350699 | The miR-483-3p in the therapy of colorectal cancer   | Abruzzo                          | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | <b>12,5</b> |
| GR-2011-02347874 | IFNgamma as a potential therapeutic target in secondary HLH  | OSPEDALE BAMBINO<br>GESU'        | Biomedical | Infection and immunity                          | Musculoskeletal, Oral and Skin Sciences                        | <b>12,5</b> |

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| CODICE           | PROGETTO   | DESTINATARIO<br>ISTITUZIONALE | Tipo       | Area  | Classificazione<br>1 Liv.                | SCORE.       |
|------------------|--|-------------------------------|------------|---|--|--------------|
| GR-2011-02350301 | Extracellular Signaling in Neuroblastoma through Exosomes for novel drug Targets discovery (ESNET)   | SANTA LUCIA                   | Biomedical | The new biotechnologies                         | Oncology 1 - Basic Translational         | <b>12,5</b>  |
| GR-2011-02348707 | Implication of mechanosensing toward pro-pathologic differentiation of resident progenitors in aortic valve calcification and stenosis   | MONZINO                       | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences  | <b>12,75</b> |
| GR-2011-02351167 | Definition of the role of Ikb-alpha in the pathogenesis and progression of Chronic MyeloidLeukemia   | Piemonte                      | Biomedical | Oncology  | Oncology 1 - Basic Translational         | <b>12,75</b> |
| GR-2011-02351464 | Prediction of the risk of spinal deformities after surgical decompression and development of preventive strategies   | GALEAZZI                      | Biomedical | Neurological diseases                           | Bioengineering Sciences and Technologies | <b>12,75</b> |
| GR-2011-02346890 | Indoleamine 2,3-Dioxygenase and Peripheral Tolerance to Exogenous Factor VIII: a Multi-Centre Study  | Umbria                        | Biomedical | Metabolism disorders and cardiovascular disease | Vascular and Hematology                  | <b>12,75</b> |
| GR-2011-02352485 | Impact of insulin resistance and hyperglycemia on myocardial sympathetic innervation and on development of diabetic cardiomyopathy in patients with pre-diabetes and diabetes mellitus with normal left ventricular systolic function. | SDN                           | Clinical   | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences  | <b>13</b>    |
| GR-2011-02349066 | Arterial function and structure in inflammatory bowel disease  | Sicilia                       | Clinical   | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences  | <b>13</b>    |

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| CODICE           | PROGETTO   | DESTINATARIO<br>ISTITUZIONALE | Tipo     | Area  | Classificazione<br>1 Liv.                 | SCORE.    |
|------------------|--|-------------------------------|----------|---|---|-----------|
| GR-2011-02352201 | Role of brain connectivity in the different stages of multiple sclerosis   | NEUROLESI                     | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>13</b> |
| GR-2011-02350053 | Action-Observation Therapy (AOT) and Information and Communications Technologies (ICT) for Home Rehabilitation of Children with Hemiplegia | STELLA MARIS                  | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>13</b> |
| GR-2011-02351960 | Metabolic, endocrine, and central effects of genistein aglycone in glucocorticoid-induced osteoporosis                                     | Sicilia                       | Clinical | Metabolism disorders and cardiovascular disease | Musculoskeletal, Oral and Skin Sciences   | <b>13</b> |

## Progetti Ricercatore Italiano all'Estero

|                  |   |                        |            |   |  |          |
|------------------|---|------------------------|------------|---|--|----------|
| PE-2011-02347026 | Delivery and imaging of miRNAs by multifunctional carbon nanotubes and circulating miRNAs as innovative therapeutic and diagnostic tools for pediatric pulmonary hypertension | OSPEDALE BAMBINO GESU' | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences                        | <b>5</b> |
| PE-2011-02350413 | Establishing and linking cognitive and disease and functional outcomes in the InCHIANTI study through physicians interview and consultation of medical record.                | I.N.R.C.A.             | Biomedical | Neurological diseases                           | Biology of Development and Aging                               | <b>6</b> |
| PE-2011-02350284 | Search for new genes and new therapies for Neonatal Diabetes Mellitus (NDM) and Hyperinsulinism and Hypoglycemia (HH)   | OSPEDALE BAMBINO GESU' | Clinical   | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>6</b> |

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| CODICE           | PROGETTO   | DESTINATARIO<br>ISTITUZIONALE | Tipo       | Area  | Classificazione<br>1 Liv.                 | SCORE.     |
|------------------|--|-------------------------------|------------|---|---|------------|
| PE-2011-02347329 | Induced pluripotent stem cell (iPSC) technology in osteoimmunology: correcting the bone and immune defects of osteopetrosis                            | HUMANITAS                     | Biomedical | Infection and immunity                          | Genes, Genomes and Genetics               | <b>6,5</b> |
| PE-2011-02348624 | In vitro and in vivo investigation of the origin and function of malignant V617FJAK2 mutated endothelium of the spleen of patients with myelofibrosis. | SAN MATTEO                    | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>7,5</b> |
| PE-2011-02348727 | Perinatal depression :chronobiology,sleep related risk factor and light therapy  | Emilia-Romagna                | Clinical   | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>7,5</b> |
| PE-2011-02348507 | Exome sequencing of thymic epithelial tumors   | Toscana                       | Clinical   | Oncology  | Oncology 2 - Translational Clinical       | <b>7,5</b> |
| PE-2011-02347716 | Epsins in epidermal Notch signaling and cancer   | SAN RAFFAELE Milano           | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>7,5</b> |
| PE-2011-02347872 | Role of HIF factors in leukemogenesis and evaluation of the effectiveness of their targeting as anti-tumor therapy                                     | SAN RAFFAELE Milano           | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>8</b>   |
| PE-2011-02346988 | Hypertension in high school students:Genetic and Environmental Factors   | Toscana                       | Clinical   | Metabolism disorders and cardiovascular disease | Population Sciences and Epidemiology      | <b>8</b>   |
| PE-2011-02351681 | Emerging respiratory viruses: monitoring of coronavirus infections at the human-animal interface   | ISS                           | Biomedical | Infection and immunity                          | Infectious Diseases and Microbiology      | <b>8</b>   |



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| CODICE           | PROGETTO   | DESTINATARIO ISTITUZIONALE | Tipo       | Area  | Classificazione 1 Liv.   | SCORE.     |
|------------------|--|----------------------------|------------|---|--|------------|
| PE-2011-02347035 | Long-term persistence of Integrase Defective Lentiviral Vector (IDLV) vectored HIV-1-Env for induction of protective antiviral antibodies                | ISS                        | Biomedical | Infection and immunity                          | AIDS and Related Research                                      | <b>8</b>   |
| PE-2011-02350135 | The gastric submucosal space (GSMS) and the lymph nodes (LN) as novel sites for islet allo-transplantation using clinically-applicable immunosuppression | Sicilia                    | Biomedical | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>8</b>   |
| PE-2011-02350147 | Role of the immunological impairment in progression from MGUS to Multiple Myeloma  | Sicilia                    | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | <b>8</b>   |
| PE-2011-02346849 | Nanotechnology for the multiplex diagnosis of infectious diseases  | ISS                        | Biomedical | The new biotechnologies                         | Infectious Diseases and Microbiology                           | <b>8,5</b> |
| PE-2011-02347951 | Interaction between environmentally sensitive DNA methylation and dopamine D2 related genetic variation on schizophrenia phenotypes                      | Puglia                     | Clinical   | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>9</b>   |
| PE-2011-02346905 | Metagenomic search for microbiological determinants of human tumors  | ISS                        | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | <b>9</b>   |
| PE-2011-02352286 | Tipping the balance between adaptive/maladaptive endoplasmic reticulum stress responses  | SAN RAFFAELE Milano        | Biomedical | The new biotechnologies                         | Cell Biology   | <b>9</b>   |
| PE-2011-02350177 | CLINICAL AND GENETIC CHARACTERIZATION OF EARLY COMPLICATIONS IN JUVENILE OBESITY   | OSPEDALE BAMBINO GESU'     | Clinical   | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>9</b>   |

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| CODICE           | PROGETTO  | DESTINATARIO ISTITUZIONALE | Tipo       | Area  | Classificazione 1 Liv.   | SCORE. |
|------------------|---|----------------------------|------------|---|--|--------|
| PE-2011-02347028 | Dual ErbB-3 and PI3K/AKT pathway inhibition as a novel approach to targeting cancer   | Abruzzo                    | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | 9      |
| PE-2011-02347070 | The Role of Mineralocorticoid Receptor (MR) hyperactivation in Obesity:Effects of MR blockade in human and animal models of overfeeding.  | SAN RAFFAELE Pisana-Roma   | Biomedical | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | 9      |
| PE-2011-02348395 | NOVEL APPROACH FOR BONE REGENERATION AND REPAIR USING SULFUR DONOR-BASED THERAPY  | RIZZOLI                    | Biomedical | The new biotechnologies                         | Musculoskeletal, Oral and Skin Sciences                        | 9,5    |
| PE-2011-02347510 | Toxins produced by intestinal bacteria and predisposing genetic variations: a dangerous link for colorectal cancer development?           | ISS                        | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | 9,5    |
| PE-2011-02346818 | Assessing the immunomodulatory effect of probiotics in the Experimental Model of Myasthenia Gravis  | CARLO BESTA                | Biomedical | Infection and immunity                          | Brain Disorders and Clinical Neuroscience                      | 9,5    |
| PE-2011-02348919 | Hereditary schwannomatosis: identification of new genes and generation of animal models to dissect the interplay of the pathways involved | Toscana                    | Biomedical | Oncology  | Genes, Genomes and Genetics                                    | 9,5    |
| PE-2011-02351898 | Modulation of the startle response in REM Sleep Behavior Disorder   | Sardegna                   | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | 9,5    |

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| CODICE           | PROGETTO  | DESTINATARIO ISTITUZIONALE | Tipo       | Area  | Classificazione 1 Liv.                  | SCORE. |
|------------------|---|----------------------------|------------|---|---|--------|
| PE-2011-02351866 | Exploiting endoplasmic reticulum aminopeptidases modulation for innovative strategies of anticancer immunotherapy   | OSPEDALE BAMBINO GESU'     | Biomedical | Oncology  | Immunology                              | 9,5    |
| PE-2011-02348537 | Epigenome wide profiling of dysfunctional endothelial progenitor cells in diabetic patients   | MONZINO                    | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences | 9,5    |
| PE-2011-02348447 | Microbiota as potential target for innovative preventive and therapeutic strategies for food allergy.   | Campania                   | Biomedical | Infection and immunity                          | Immunology                              | 9,75   |
| PE-2011-02347500 | Towards a personalized medicine: identification of genetic risk factors (including rare variants) for cardiovascular diseases in Italian Isolated populations by Genome Wide Association Studies and Next Generation Sequencing | BURLO GAROFALO             | Clinical   | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics             | 9,75   |

## Progetti Ordinari

|                  |  |                     |            |   |  |   |
|------------------|--|---------------------|------------|---|--|---|
| RF-2011-02351840 | Defective Glucose Metabolism in Polycystic Kidney Disease Defines a Novel Therapeutic Strategy: a Pre-Clinical Proof-of-Concept Study      | SAN RAFFAELE Milano | Biomedical | Metabolism disorders and cardiovascular disease | Digestive, Kidney and Urological Systems | 5 |
| RF-2011-02348435 | Investigation of the role of extracellular ATP and the P2X7 receptor in the modulation of immunosuppression within tumour microenvironment | Emilia-Romagna      | Biomedical | Oncology  | Immunology                               | 5 |

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| CODICE           | PROGETTO   | DESTINATARIO<br>ISTITUZIONALE    | Tipo       | Area  | Classificazione<br>1 Liv.                                      | SCORE.     |
|------------------|--|----------------------------------|------------|---|--|------------|
| RF-2011-02350693 | To unravel the molecular basis of neurodevelopmental disorders   | CASA SOLLIEVO<br>SOFFERENZA      | Biomedical | Neurological diseases                           | Genes, Genomes and Genetics                                    | <b>5,5</b> |
| RF-2011-02348315 | Defining the cis-regulatory bases for variability in inflammatory gene expression in humans: a 3-D analysis in the nuclear space   | I.E.O.                           | Biomedical | Infection and immunity                          | Genes, Genomes and Genetics                                    | <b>5,5</b> |
| RF-2011-02352006 | Gender and geographical specific circulating microRNA signatures as biomarkers of atherosclerosis, atherosclerosis progression and vascular events   | MONZINO                          | Clinical   | Metabolism disorders and cardiovascular disease | Vascular and Hematology  | <b>5,5</b> |
| RF-2011-02348358 | Immune, procoagulant and inflammatory responses in severe sepsis and septic shock  | MAGGIORE                         | Biomedical | Infection and immunity                          | Immunology   | <b>6</b>   |
| RF-2011-02351092 | "Detection of pathological prion protein in cerebrospinal fluid by real-time quaking induced conversion (QuIC): Evaluation and standardization of a novel disease-specific laboratory test for the diagnosis of sporadic Creutzfeldt-Jakob disease." | Ist.Sci. Neurologiche<br>Bologna | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>6</b>   |
| RF-2011-02347228 | Altered host-virus interaction as cause of multiple sclerosis: focus on Epstein-Barr virus and antiviral immune response   | ISS                              | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>6</b>   |
| RF-2011-02350857 | Role of anoctamin-1 in iodide transport and implications for the efficacy of radioiodine-based cancer therapy.   | Emilia-Romagna                   | Biomedical | Oncology  | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>6,5</b> |

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| CODICE           | PROGETTO  | DESTINATARIO<br>ISTITUZIONALE | Tipo       | Area  | Classificazione<br>1 Liv.                                      | SCORE.      |
|------------------|---|-------------------------------|------------|---|--|-------------|
| RF-2011-02350617 | Determinants of Type 1 Diabetes (T1DM) clinical onset and progression in paediatric immigrant population            | Piemonte                      | Clinical   | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>6,5</b>  |
| RF-2011-02352291 | Assessment of the macrophage role in the natural history of myeloproliferative neoplasms                            | SAN RAFFAELE Milano           | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | <b>6,5</b>  |
| RF-2011-02352852 | Dynamics and ultrastructure of stress sensing   | SAN RAFFAELE Milano           | Biomedical | The new biotechnologies                         | Cell Biology   | <b>6,5</b>  |
| RF-2011-02346976 | Identification of critical p53 co-regulators and effectors during tumor suppression                                 | I.E.O.                        | Biomedical | Oncology  | Genes, Genomes and Genetics                                    | <b>6,5</b>  |
| RF-2011-02350836 | New nano-systems for targeted delivery of cytokines to tumors   | SAN RAFFAELE Milano           | Biomedical | Oncology  | Oncology 2 - Translational Clinical                            | <b>6,5</b>  |
| RF-2011-02348466 | GENome-wide association study to Evaluate genetic risk factors for cerebral sinus-venous thrombosis (GENESIS Study) | MAGGIORE                      | Biomedical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics                                    | <b>6,75</b> |
| RF-2011-02350347 | An integrated genomic, transcriptomic and epigenomic approach in multiplex multiple sclerosis families.             | SAN RAFFAELE Milano           | Biomedical | Neurological diseases                           | Genes, Genomes and Genetics                                    | <b>7</b>    |
| RF-2011-02351474 | Dysregulated RNA metabolism in multiple myeloma   | SAN RAFFAELE Milano           | Biomedical | Oncology  | Oncology 1 - Basic Translational                               | <b>7</b>    |

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| CODICE           | PROGETTO  | DESTINATARIO ISTITUZIONALE | Tipo       | Area                   | Classificazione 1 Liv.                              | SCORE. |
|------------------|---|----------------------------|------------|------------------------|---|--------|
| RF-2011-02349985 | Production of novel diagnostic and therapeutic antibodies directed against stem cells in colorectal and lung cancer   | REGINA ELENA               | Biomedical | Oncology               | Oncology 2 - Translational Clinical                 | 7      |
| RF-2011-02349806 | Mitochondrial targeting in LRRK2-associated parkinsonism (PARK8)  | SANTA LUCIA                | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience           | 7      |
| RF-2011-02351165 | Translational genetics of hereditary spinocerebellar degenerations: high-throughput exome sequencing and model organisms for the identification and characterization of novel disease genes | CARLO BESTA                | Biomedical | Neurological diseases  | Genes, Genomes and Genetics                         | 7      |
| RF-2011-02352582 | N-acetylcysteine in the treatment of neuropathic pain   | NEUROMED                   | Biomedical | Neurological diseases  | Brain Disorders and Clinical Neuroscience           | 7      |
| RF-2011-02352331 | Systemic Sclerosis and Chronic Graft versus Host Disease: application of novel predictive assays and generation of transgenic animal models   | Marche                     | Biomedical | Infection and immunity | Immunology  | 7      |
| RF-2011-02347691 | Generation and functional characterization of artificial lymphoid organs with multipotent stromal progenitors   | SAN RAFFAELE Milano        | Biomedical | Oncology               | Biology of Development and Aging                    | 7,25   |
| RF-2011-02347869 | CHANGES IN STRUCTURE AND RECRUITMENT OF MUSCLE SYNERGIES AFTER CORTICAL AND CEREBELLAR LESIONS  | SANTA LUCIA                | Biomedical | Neurological diseases  | Integrative, Functional, and Cognitive Neuroscience | 7,25   |

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| CODICE           | PROGETTO  | DESTINATARIO<br>ISTITUZIONALE | Tipo       | Area  | Classificazione<br>1 Liv.                 | SCORE. |
|------------------|---|-------------------------------|------------|---|---|--------|
| RF-2011-02350689 | Role of regulatory cells and cytokines in the extent of colonic involvement in patients with ulcerative colitis: implications for patient-oriented therapy  | ISS                           | Biomedical | Infection and immunity                          | Digestive, Kidney and Urological Systems  | 7,5    |
| RF-2011-02352638 | ADIPOSE-DERIVED MESENCHYMAL STEM CELLS AS NEW MINIMALLY INVASIVE REGENERATIVE TREATMENT TO TARGET EARLY OSTEOARTHRITIS: FROM PRE-CLINICAL PROCEDURE SELECTION TO CLINICAL APPLICATION IN A RANDOMIZED DOUBLE-BLINDED CONTROLLED TRIAL | RIZZOLI                       | Clinical   | The new biotechnologies                         | Musculoskeletal, Oral and Skin Sciences   | 7,5    |
| RF-2011-02348444 | Inherited arrhythmias: clinical characterization, genetic geography and experimental studies in the Calabria Region isolate.  | MAUGERI                       | Biomedical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics               | 7,5    |
| RF-2011-02347907 | Enhanced cell therapy: novel strategies to improve transplanted cell survival and engraftment by protection from oxidative stress   | REGINA ELENA                  | Biomedical | Metabolism disorders and cardiovascular disease | Vascular and Hematology                   | 7,5    |
| RF-2011-02347470 | Regulation of mitotic transitions   | I.E.O.                        | Biomedical | Oncology  | Cell Biology                              | 7,5    |
| RF-2011-02350228 | Steroid myopathy: pathogenesis and prevention   | MAUGERI                       | Biomedical | Infection and immunity                          | Musculoskeletal, Oral and Skin Sciences   | 7,5    |
| RF-2011-02350097 | Skeletal muscle in Spinal and Bulbar Muscular Atrophy (SBMA): therapeutic target and delivery route for potential treatments  | Veneto                        | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | 7,5    |

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|------------------|---|----------------------------|------------|---|---|--------|
| RF-2011-02347253 | Identification and validation of new therapeutic targets in Acute Myeloid Leukaemia   | I.E.O.                     | Biomedical | Oncology  | Oncology 1 - Basic Translational          | 7,5    |
| RF-2011-02350023 | Evaluation of the potential application of bivalve shellfish as bioindicators of pollution for viral pathogens in coastal waters of southern Italy              | IZS Mezzogiorno            | Biomedical | Food safety and animal welfare                  | Veterinary                                | 7,5    |
| RF-2011-02348796 | ETHYL-EICOSAPENTAENOIC ACID ADDED TO INTERFERON $\beta$ THERAPY IN RELAPSING-REMITTING MULTIPLE SCLEROSIS: A RANDOMIZED PHASE II CLINICAL TRIAL.                | ISS                        | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | 7,5    |
| RF-2011-02346987 | Development of a second generation PCR-Based Replicon Typing system to trace and control the antimicrobial resistance spread in Enterobacteriaceae              | ISS                        | Biomedical | Infection and immunity                          | Infectious Diseases and Microbiology      | 7,5    |
| RF-2011-02351229 | Stress-Activated Protein Kinases MLK3 and p38 as novel therapeutic targets in chemokine-driven leukocyte extravasation and non-resolving inflammatory processes | SAN RAFFAELE Milano        | Biomedical | Infection and immunity                          | Immunology                                | 7,5    |
| RF-2011-02346867 | The role of mechanobiology in establishment and progression of intima hyperplasia associated to vein coronary bypass grafts disease                             | MONZINO                    | Biomedical | Metabolism disorders and cardiovascular disease | Vascular and Hematology                   | 7,5    |



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|------------------|---|-------------------------------|------------|------------------------|---|-------------|
| RF-2011-02347946 | An image-analysis platform for automated in-situ high-content and resolution analysis of tumor heterogeneity: targeting genomic, epigenetic, and functional diversity in tissues by fluorescence microscopy | I.E.O.                        | Biomedical | Oncology               | Bioengineering Sciences and Technologies            | <b>7,75</b> |
| RF-2011-02350993 | Investigation of a novel engineered probiotic to treat Clostridium difficile infection  | SAN RAFFAELE Milano           | Biomedical | Infection and immunity | Infectious Diseases and Microbiology                | <b>8</b>    |
| RF-2011-02351998 | New Molecular Mechanisms of Leukemia Immune Evasion after Allogeneic Hematopoietic Stem Cell Transplantation  | SAN RAFFAELE Milano           | Biomedical | Oncology               | Oncology 2 - Translational Clinical                 | <b>8</b>    |
| RF-2011-02348970 | Structure and biology of the Tat/Env complex and role of anti-Tat/Env antibodies in HIV infection: implication for HIV/AIDS preventative vaccine development  | ISS                           | Biomedical | Infection and immunity | AIDS and Related Research                           | <b>8</b>    |
| RF-2011-02348476 | ROLE OF THE NOVEL PRESYNAPTIC PROTEIN PRRT <sub>2</sub> IN NEURONAL PHYSIOLOGY AND IN THE PATHOGENESIS OF PAROXYSMAL NEUROLOGICAL DISORDERS   | SAN RAFFAELE Milano           | Biomedical | Neurological diseases  | Molecular, Cellular, and Developmental Neuroscience | <b>8</b>    |
| RF-2011-02349126 | Hypoxia, Inflammation and redox status as determinants of malignant progression of cancer stem cells  | SAN RAFFAELE Pisana-Roma      | Biomedical | Oncology               | Oncology 1 - Basic Translational                    | <b>8</b>    |
| RF-2011-02347337 | Dendritic cell-based vaccine therapy in indolent non-Hodgkin lymphoma patients: a phase I clinical study  | ISS                           | Biomedical | Oncology               | Oncology 2 - Translational Clinical                 | <b>8</b>    |

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|------------------|--|---------------------------------------|------------|---|---|------------|
| RF-2011-02349938 | From Bench to Bedside: an Integrated Approach to RASopathies   | ISS                                   | Biomedical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics               | <b>8</b>   |
| RF-2011-02350464 | New self-powered devices for cochlear stimulation based on piezoelectric nanomaterials   | Toscana                               | Biomedical | The new biotechnologies                         | Bioengineering Sciences and Technologies  | <b>8</b>   |
| RF-2011-02350485 | NEUROSTEROIDS AS DETERMINANTS OF ANTIPILEPTIC DRUG REFRACTORINESS IN TEMPORAL LOBE EPILEPSY  | Emilia-Romagna                        | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>8</b>   |
| RF-2011-02347596 | LEKTI, a multifunctional protein involved in skin desquamation and immunity: towards novel therapeutic approaches for rare and common skin diseases  | IDI                                   | Biomedical | Infection and immunity                          | Musculoskeletal, Oral and Skin Sciences   | <b>8</b>   |
| RF-2011-02347120 | Cell-on-chip technology as a novel tool to investigate the crosstalk between cancer and immune cells: role of the transcription factors Interferon Regulatory Factor 1 and 8 (IRF1, IRF8) in melanoma as a model system. | ISS                                   | Biomedical | The new biotechnologies                         | Oncology 1 - Basic Translational          | <b>8</b>   |
| RF-2011-02347197 | Epidrugs and cardiac differentiation: relevance for the 22q11.2 deletion syndrome  | NEUROMED                              | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>8</b>   |
| RF-2011-02348684 | Taking a step forwards the preparedness for preventing crises: Improving the molecular detection of emerging pathogens in food.  | IZS Piemonte, Liguria e Valle d'Aosta | Biomedical | Food safety and animal welfare                  | Veterinary                                | <b>8,5</b> |

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|------------------|---|----------------------------|------------|---|---|------------|
| RF-2011-02347224 | CCL2/CCR2 blocking:molecular insights into a potential therapeutic strategy against HIV replication   | ISS                        | Biomedical | Infection and immunity                          | AIDS and Related Research                 | <b>8,5</b> |
| RF-2011-02349693 | Vibrio and viruses in shellfish: old and emerging pathogens. Evaluation of exposure levels for the implementation of prevention strategies.                     | ISS                        | Biomedical | Food safety and animal welfare                  | Veterinary                                | <b>8,5</b> |
| RF-2011-02349269 | From protein-protein interaction studies new potential therapeutic targets to treat the MLL-related acute lymphoblastic leukemias                               | SDN                        | Biomedical | Oncology  | Oncology 1 - Basic Translational          | <b>8,5</b> |
| RF-2011-02352308 | ¿WHY ME?¿ PROJECT (WM?P). INVESTIGATING WHITE MATTER CONNECTIVITY IN SCHIZOPHRENIA AT IMAGING, CELLULAR, AND TRANSPOSONE LEVELS IN MONOZYGOTIC DISCORDANT TWINS | MEDEA                      | Biomedical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>8,5</b> |
| RF-2011-02348164 | CARDIOriGEN - MicroRNAs inducing cardiac regeneration - From discovery towards clinical application   | Friuli-Venezia Giulia      | Biomedical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>8,5</b> |
| RF-2011-02346754 | Tie2 monocyte-mediated delivery of IFN-alpha into the liver as a novel treatment for colorectal carcinoma (CRC) liver metastases.                               | SAN RAFFAELE Milano        | Biomedical | Oncology  | Oncology 2 - Translational Clinical       | <b>8,5</b> |
| RF-2011-02346771 | Does gut flora influence autoimmune responses in Multiple Sclerosis? The MAIT cell story.   | SANTA LUCIA                | Biomedical | Infection and immunity                          | Immunology                                | <b>8,5</b> |

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|------------------|--|-------------------------------|------------|---|---|------------|
| RF-2011-02352379 | Sensorimotor Integration. Physiology and Pathophysiology   | MAUGERI                       | Biomedical | Neurological diseases                           | Integrative, Functional, and Cognitive Neuroscience       | <b>8,5</b> |
| RF-2011-02347300 | Specialized-functionally connected membranes as caveolae and exosomes include molecular signature to decode melanoma progression mechanisms exploitable in clinical therapy  | ISS                           | Biomedical | Oncology  | Cell Biology  | <b>8,5</b> |
| RF-2011-02348346 | A long ncRNA point-of-view to FSHD muscular dystrophy pathophysiology and therapeutics.  | SAN RAFFAELE Milano           | Biomedical | Neurological diseases                           | Genes, Genomes and Genetics                               | <b>8,5</b> |
| RF-2011-02351876 | Vitamin D deficiency and obesity after kidney transplantation: multicenter study on gene-environment interactions leading to "complex-phenotypes" in a human system associated with cardiovascular events and graft rejection. | Piemonte                      | Biomedical | Metabolism disorders and cardiovascular disease | Digestive, Kidney and Urological Systems                  | <b>8,5</b> |
| RF-2011-02350455 | Electromagnetic guided in-situ laser fenestration of endovascular endoprosthesis   | Toscana                       | Biomedical | Metabolism disorders and cardiovascular disease | Surgical Sciences, Biomedical Imaging, and Bioengineering | <b>8,5</b> |
| RF-2011-02349712 | Genomic complexity of chronic lymphocytic leukemia (CLL): clinicobiologic implications and pharmaco-economic evaluation at the beginning of the kinase-targeted treatment era  | Emilia-Romagna                | Clinical   | Oncology  | Oncology 2 - Translational Clinical                       | <b>8,5</b> |
| RF-2011-02352088 | Meeting senior members in the search for new associates of the exclusive hamartomatous gene club   | Puglia                        | Biomedical | Oncology  | Digestive, Kidney and Urological Systems                  | <b>8,5</b> |

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|------------------|--|-------------------------------|------------|---|--|------------|
| RF-2011-02352318 | Immunological Mechanisms Involved in The Pathogenesis of Primary Aldosteronism   | Veneto                        | Clinical   | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>8,5</b> |
| RF-2011-02351158 | Beta-adrenoceptor antagonism and biased agonism in the control of pathological neovascularization  | ISS                           | Biomedical | Metabolism disorders and cardiovascular disease | Biological Chemistry and Macromolecular Biophysics             | <b>8,5</b> |
| RF-2011-02349921 | THE ROLE OF THE BRAIN-ADIPOCYTE AXIS ACTIVITY IN POTENTIATING ANTIDEPRESSANT EFFICACY  | ISS                           | Biomedical | Neurological diseases                           | Biobehavioral and Behavioral Processes                         | <b>8,5</b> |
| RF-2011-02347608 | Clostridium difficile infection in Italy: do we know the true magnitude of the problem?  | SPALLANZANI                   | Clinical   | Infection and immunity                          | Infectious Diseases and Microbiology                           | <b>9</b>   |
| RF-2011-02352131 | GLP-1 agonists treatment vs endoscopic procedures in obesity and type II diabetes mellitus management: a randomized clinical trial.  | Piemonte                      | Clinical   | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>9</b>   |
| RF-2011-02350971 | The role of early systematic best palliative care versus on request palliative care consultation during standard oncologic treatment for patients with advanced gastric or pancreatic cancers: a randomized, controlled, multicenter trial | IRST Meldola                  | Clinical   | Oncology  | Healthcare Delivery and Methodologies                          | <b>9</b>   |
| RF-2011-02349698 | Individual risk in clinically isolated syndromes of conversion to multiple sclerosis and disease progression: an integrated public health clinical genomics approach   | SAN RAFFAELE Milano           | Clinical   | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>9</b>   |

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|------------------|---|----------------------------|----------|---|--|-------------|
| RF-2011-02348236 | CARPEDIEM - Comorbidity And Risk Profiles Evaluation in Diabetes and hEart Morbidities  | Toscana                    | Clinical | Metabolism disorders and cardiovascular disease | Healthcare Delivery and Methodologies                          | <b>9,25</b> |
| RF-2011-02348446 | Long term mechanisms of diabetes prevention and remission after bariatric surgery: study of glucose metabolism, insulin secretion and cardiovascular risk 7 years after Roux-en Y Gastric bypass. | Toscana                    | Clinical | Metabolism disorders and cardiovascular disease | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>9,5</b>  |
| RF-2011-02348212 | Developmental and genetic bases of Opitz G/BBB Syndrome towards better diagnosis and management of syndromic forms of intellectual disability   | BURLO GAROFALO             | Clinical | Neurological diseases                           | Genes, Genomes and Genetics                                    | <b>9,5</b>  |
| RF-2011-02351139 | Phase IV clinical trial of anti-viral treatment for Hepatitis C infection in compensated cirrhosis  | Sicilia                    | Clinical | Infection and immunity                          | Digestive, Kidney and Urological Systems                       | <b>9,5</b>  |
| RF-2011-02348034 | A Nationwide Clinical Study on the Role of Functional HLA-DPB1 Matching in Unrelated Hematopoietic Stem Cell Transplantation  | SAN RAFFAELE Milano        | Clinical | Oncology  | Oncology 2 - Translational Clinical                            | <b>9,5</b>  |
| RF-2011-02352711 | Search for new genetic biomarkers for early diagnosis and prevention of Familial Thoracic Aortic Aneurysms and Dissections  | Emilia-Romagna             | Clinical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics                                    | <b>9,75</b> |
| RF-2011-02347283 | Breast cancer with low risk of local recurrence: 3D Conformal Accelerated and Hypofractionated Partial Breast Irradiation vs. standard whole breast radiotherapy after conservative surgery       | Emilia-Romagna             | Clinical | Oncology  | Oncology 2 - Translational Clinical                            | <b>10</b>   |

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|------------------|---|----------------------------|----------|---|---|-----------|
| RF-2011-02350889 | Prospective Characterization of Circulating Tumor Cells in Patients with Hormone Receptor Positive Metastatic Breast Cancer   | I.E.O.                     | Clinical | Oncology  | Oncology 2 - Translational Clinical       | <b>10</b> |
| RF-2011-02350980 | Disruption of white matter integrity in bipolar disorder: changes of diffusion tensor imaging measures as markers of the biological underpinnings of the progressive deterioration of cognition and of the cognitive control of emotions. | SAN RAFFAELE Milano        | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>10</b> |
| RF-2011-02348959 | From the measure of guidelines adherence in oncology to the assessment of health system performance   | Lombardia                  | Clinical | Oncology  | Healthcare Delivery and Methodologies     | <b>10</b> |
| RF-2011-02348364 | New biomarkers for early SIRS/sepsis diagnosis in pediatric and adult patients.   | Friuli-Venezia Giulia      | Clinical | Infection and immunity                          | Infectious Diseases and Microbiology      | <b>10</b> |
| RF-2011-02347603 | Nationwide study on trends in hospital admissions for major cardiovascular events and procedures among people with and without diabetes in Italy, 2001-2010   | Piemonte                   | Clinical | Metabolism disorders and cardiovascular disease | Healthcare Delivery and Methodologies     | <b>10</b> |
| RF-2011-02347402 | Non-invasive assessment of liver steatosis and fibrosis in pediatric patients   | SAN MATTEO                 | Clinical | Metabolism disorders and cardiovascular disease | Digestive, Kidney and Urological Systems  | <b>10</b> |
| RF-2011-02350578 | IDENTIFICATION OF EPILEPTOGENIC NETWORKS IN SURGICAL EPILEPSIES BY A NON-INVASIVE MULTIMODAL APPROACH   | CARLO BESTA                | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>10</b> |

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|------------------|---|----------------------------|----------|---|---|--------------|
| RF-2011-02347262 | RESPONSE ORIENTED MAINTENANCE IMMUNOTHERAPY IN PATIENTS WITH FOLLICULAR LYMPHOMA.   | Emilia-Romagna             | Clinical | Oncology  | Oncology 2 - Translational Clinical       | <b>10</b>    |
| RF-2011-02348194 | Innovative diagnostic approach for hereditary cardiomyopathies  | MULTIMEDICA                | Clinical | Metabolism disorders and cardiovascular disease | Genes, Genomes and Genetics               | <b>10</b>    |
| RF-2011-02351116 | NEW ALLOCATION CRITERIA FOR LIVER TRANSPLANTATION IN PATIENTS WITH AND WITHOUT HEPATOCELLULAR CARCINOMA BASED ON TRANSPLANT BENEFIT PRINCIPLES: A MULTICENTER, PROSPECTIVE STUDY. | Emilia-Romagna             | Clinical | Oncology  | Healthcare Delivery and Methodologies     | <b>10</b>    |
| RF-2011-02351315 | HPV positive oropharyngeal cancer: characterization of immunological and viral profiles, and their role in the response to treatment  | SAN MATTEO                 | Clinical | Oncology  | Oncology 2 - Translational Clinical       | <b>10</b>    |
| RF-2011-02348953 | A Twist code of p53 inactivation in sarcomas: clinicopathological and therapeutic implications  | C.R.O. AVIANO              | Clinical | Oncology  | Oncology 1 - Basic Translational          | <b>10</b>    |
| RF-2011-02350801 | Implementation of Chronic Care Model, using Tele-care and Home care, in patients with multiple comorbidities: evaluation of the cost-effectiveness and quality of life            | Toscana                    | Clinical | Metabolism disorders and cardiovascular disease | Healthcare Delivery and Methodologies     | <b>10,25</b> |
| RF-2011-02347127 | Genomic approach for motor neuron diseases  | SAN RAFFAELE Milano        | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>10,5</b>  |



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|------------------|--|----------------------------|----------|---|---|-------------|
| RF-2011-02346990 | Development of a service interface method (WebService) between family care physicians operating in a primary care setting and nephrologists, for the prevention, diagnosis and treatment of kidney damage in patients with type II diabetes mellitus . | Toscana                    | Clinical | Metabolism disorders and cardiovascular disease | Digestive, Kidney and Urological Systems  | <b>10,5</b> |
| RF-2011-02347356 | PHARMACOGENOMICS OF HYPERTENSION: A NEW APPROACH FOR A PERSONALIZED MEDICINE   | SAN RAFFAELE Milano        | Clinical | Metabolism disorders and cardiovascular disease | Digestive, Kidney and Urological Systems  | <b>10,5</b> |
| RF-2011-02347532 | A multi-site international RCT comparing regional and general anesthesia in infants for effects on neurodevelopmental outcome at five year of age: The GAS Trial.  | GASLINI                    | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>10,5</b> |
| RF-2011-02351728 | Containment of a region-wide outbreak of Carbapenem-resistant Klebsiella pneumoniae in seven lombardian hospital: molecular characterization, epidemiology and outcome.  | Lombardia                  | Clinical | Infection and immunity                          | Infectious Diseases and Microbiology      | <b>10,5</b> |
| RF-2011-02348713 | Genetic variability of Mycobacterium tuberculosis and its implications for transmission dynamics, pathogenesis and immune response   | SPALLANZANI                | Clinical | Infection and immunity                          | Infectious Diseases and Microbiology      | <b>10,5</b> |
| RF-2011-02352056 | A randomized intervention study to assess the effect of the Mediterranean Diet on the plasma fatty acid profile.   | MONZINO                    | Clinical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>11</b>   |

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|------------------|---|----------------------------|----------|--|---|-----------|
| RF-2011-02352442 | Long-term exposure to ambient air pollution and pregnancy outcomes in women of three large Italian longitudinal studies   | Lazio                      | Clinical | Diseases of environmental origin, with reference also to the workplace | Population Sciences and Epidemiology      | <b>11</b> |
| RF-2011-02346763 | Positive selection, expansion and transplantation of regulatory T cells (Tregs) to prevent cellular rejection and to induce tolerance in solid organ transplantation. | Emilia-Romagna             | Clinical | The new biotechnologies  | Immunology                                | <b>11</b> |
| RF-2011-02349443 | Integrated diagnostic evaluation of PET/RM and molecular markers in the diagnosis of bone lesions   | SDN                        | Clinical | Oncology   | Oncology 2 - Translational Clinical       | <b>11</b> |
| RF-2011-02349645 | Early diagnosis, tumor response to neoadjuvant treatments and diagnosis of tumor recurrence using new and non-invasive biomarkers in colon and rectal cancer          | I. O. V.                   | Clinical | Oncology   | Oncology 2 - Translational Clinical       | <b>11</b> |
| RF-2011-02351193 | NETWORK DEGENERATION IN MOTOR NEURON DISEASES (MND): A STUDY OF THE STRUCTURAL AND FUNCTIONAL CONNECTOMES IN AMYOTROPHIC LATERAL SCLEROSIS AND OTHER MND              | SAN RAFFAELE Milano        | Clinical | Neurological diseases  | Brain Disorders and Clinical Neuroscience | <b>11</b> |
| RF-2011-02348826 | Fertility preservation in gonadotoxic treatments  | Emilia-Romagna             | Clinical | Oncology   | Oncology 2 - Translational Clinical       | <b>11</b> |
| RF-2011-02350341 | Early treatment of exercise-induced pulmonary hypertension in systemic sclerosis  | Toscana                    | Clinical | Infection and immunity   | Immunology                                | <b>11</b> |

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| RF-2011-02346770 | Clinical and healthcare strategies for improving quality of life in persons affected by spinal cord injuries: Tuscany regional network and use of innovative technological devices | Toscana                    | Clinical | Neurological diseases  | Healthcare Delivery and Methodologies                          | <b>11</b>    |
| RF-2011-02351863 | Identification of Determinants of Healthy Aging in Italy (IDAGIT)  | CARLO BESTA                | Clinical | Diseases of environmental origin, with reference also to the workplace | Population Sciences and Epidemiology                           | <b>11</b>    |
| RF-2011-02346959 | Evaluation of the efficacy of Rapamycin and a DPP-4 inhibitor (Vildagliptin) in improving beta cell function in type 1 diabetes of long duration, a perspective randomized study   | SAN RAFFAELE Milano        | Clinical | Metabolism disorders and cardiovascular disease                        | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>11</b>    |
| RF-2011-02346986 | TRAIL receptor embedding in membrane rafts could predict cancer cell susceptibility to TRAIL-based molecularly targeted therapy  | ISS                        | Clinical | Oncology   | Oncology 2 - Translational Clinical                            | <b>11</b>    |
| RF-2011-02350673 | Screening for Autoimmune Polyglandular Syndrome Type 2 in patients with autoimmune thyroiditis: definition of methodology and cost-benefit analysis.                               | Toscana                    | Clinical | Infection and immunity   | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>11</b>    |
| RF-2011-02349303 | Impact of deep Transcranial Magnetic Stimulation (TMS) on satiety and weight control   | SAN DONATO                 | Clinical | Metabolism disorders and cardiovascular disease                        | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>11,25</b> |

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| RF-2011-02350082 | The "TRIPL-A Study". A TRIal to promote Physical Activity among patients in the young-old age affected by Type 2 diabetes   | I.N.R.C.A.                    | Clinical | Metabolism disorders and cardiovascular disease | Risk, Prevention and Health Behavior      | <b>11,25</b> |
| RF-2011-02352636 | The availability of "old" and "new" drug eluting stents in routine clinical practice: influence on the treatment choice among medical therapy vs. percutaneous coronary interventions vs. coronary by-pass surgery and on 4-year clinical outcome in patients w | Veneto                        | Clinical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>11,5</b>  |
| RF-2011-02347955 | A multicenter prospective study on inflammatory/infectious CNS diseases in different immunological settings: a multidisciplinary approach using an online data base   | MONDINO                       | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>11,5</b>  |
| RF-2011-02349953 | PROMOTING MOTOR RE-LEARNING IN PATIENTS WITH STROKE BY ENHANCING NON INVASIVELY ASSOCIATED CEREBELLAR-CORTICAL PLASTICITY.  | SANTA LUCIA                   | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience | <b>11,5</b>  |
| RF-2011-02350984 | Intraventricular injection of Peripheral Blood Stem Cells during coronary artery bypass grafting in patients with heart failure induced by previous myocardial infarction.  | Campania                      | Clinical | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences   | <b>11,5</b>  |

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**Ordinari - Giovani Ricercatori - Ricercatore Italiano all'Estero - Cofinanziati Industriali**  
**PROGETTI FINANZIATI**

| CODICE           | PROGETTO  | DESTINATARIO<br>ISTITUZIONALE | Tipo     | Area  | Classificazione<br>1 Liv.                                      | SCORE.       |
|------------------|---|-------------------------------|----------|---|--|--------------|
| RF-2011-02351933 | SMART FOOD AND LIFESTYLE INTERVENTIONS FOR HEALTHY BRAIN AGING. Developing a comprehensive protocol to assess the preventive effects of lifestyle interventions on food habits, physical and cognitive activity and social and cultural participation on cognit | CARLO BESTA                   | Clinical | Neurological diseases                           | Brain Disorders and Clinical Neuroscience                      | <b>11,5</b>  |
| RF-2011-02347280 | Morphofunctional visual pathways evaluation in multiple sclerosis: possible identification of neurodegenerative bio-markers   | BIETTI                        | Clinical | Neurological diseases                           | Integrative, Functional, and Cognitive Neuroscience            | <b>11,5</b>  |
| RF-2011-02351812 | APPLICATIONS OF ULTRASTRUCTURAL CELL ANALYSIS IN THE FIELD OF REPRODUCTIVE TECHNOLOGIES   | BURLO GAROFALO                | Clinical | The new biotechnologies                         | Endocrinology, Metabolism, Nutrition and Reproductive Sciences | <b>11,5</b>  |
| RF-2011-02347709 | Identification of Biomarkers for Non Melanoma Skin Cancers in a Multicenter Cohort of Kidney Transplant Recipients: Evaluation of Ethiopatogenetic Role and Clinical Implications.  | Piemonte                      | Clinical | Oncology  | Oncology 2 - Translational Clinical                            | <b>11,75</b> |
| RF-2011-02348920 | Analysis of the role of different isoforms of thymic stromal lymphopoietin and the microbiota in T cell activation in inflammatory conditions of the gut  | I.E.O.                        | Clinical | Infection and immunity                          | Immunology   | <b>11,75</b> |
| RF-2011-02350193 | Assessment of strategies for identifying undiagnosed type 2 diabetes mellitus   | Veneto                        | Clinical | Metabolism disorders and cardiovascular disease | Population Sciences and Epidemiology                           | <b>12</b>    |

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**PROGETTI FINANZIATI**

| CODICE           | PROGETTO   | DESTINATARIO ISTITUZIONALE | Tipo     | Area                    | Classificazione 1 Liv.                    | SCORE.    |
|------------------|--|----------------------------|----------|-------------------------|---|-----------|
| RF-2011-02347106 | Development of high throughput, integrated and cost-effective molecular diagnostic tests for the detection of genetic and epigenetic defects involved in human disease                               | MAGGIORE                   | Clinical | The new biotechnologies | Genes, Genomes and Genetics               | <b>12</b> |
| RF-2011-02350666 | Can mental training based on motor imagery speed up the rehabilitation of walking? Efficacy of a controlled procedure and neurofunctional bases of recovery in patients with total knee arthroplasty | GALEAZZI                   | Clinical | Neurological diseases   | Biobehavioral and Behavioral Processes    | <b>12</b> |
| RF-2011-02350542 | Targeting late recurrence after adjuvant treatment for early breast cancer   | I.E.O.                     | Clinical | Oncology                | Oncology 2 - Translational Clinical       | <b>12</b> |
| RF-2011-02348240 | Reperfusion injury after cerebral ischemia: an "in vivo" study using neuro-imaging markers   | Toscana                    | Clinical | Neurological diseases   | Brain Disorders and Clinical Neuroscience | <b>12</b> |
| RF-2011-02350374 | Effects of action observation therapy on rehabilitation of motor deficits of the dominant right upper limb in patients with MS: a study with structural and functional MRI.                          | SAN RAFFAELE Milano        | Clinical | Neurological diseases   | Brain Disorders and Clinical Neuroscience | <b>12</b> |
| RF-2011-02352236 | Identifying low-value health care interventions for patients with neurodegenerative diseases of the Central Nervous System and Stroke to support disinvestment decisions                             | Emilia-Romagna             | Clinical | Neurological diseases   | Healthcare Delivery and Methodologies     | <b>12</b> |
| RF-2011-02348213 | Neurophysiological approach to evaluate cerebro-cerebellar interactions. Characterization of a cerebellar connectivity EEG index.  | SANTA LUCIA                | Clinical | Neurological diseases   | Brain Disorders and Clinical Neuroscience | <b>12</b> |

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**PROGETTI FINANZIATI**

| CODICE           | PROGETTO   | DESTINATARIO<br>ISTITUZIONALE | Tipo     | Area   | Classificazione<br>1 Liv.                 | SCORE.       |
|------------------|--|-------------------------------|----------|--|---|--------------|
| RF-2011-02352294 | CIRCULATING CELL-FREE BIOMARKERS IN THE DIAGNOSIS AND FOLLOW UP OF DIFFERENTIATED THYROID CANCER   | Toscana                       | Clinical | Oncology   | Oncology 2 - Translational Clinical       | <b>12</b>    |
| RF-2011-02351475 | Targeting streptococcal infections in the management of patients with psoriasis  | Toscana                       | Clinical | Infection and immunity   | Musculoskeletal, Oral and Skin Sciences   | <b>12</b>    |
| RF-2011-02347694 | Therapeutic correction of mis-spliced RNA transcripts and of protein conformational defects in Lysosomal Storage Disorders   | Toscana                       | Clinical | Metabolism disorders and cardiovascular disease                        | Genes, Genomes and Genetics               | <b>12</b>    |
| RF-2011-02349395 | Role of IP-10 and its truncated form in the pathogenesis of tuberculosis   | SPALLANZANI                   | Clinical | Infection and immunity   | Infectious Diseases and Microbiology      | <b>12</b>    |
| RF-2011-02346914 | Phase 1/2 study of valproic acid and short-course radiotherapy plus capecitabine as preoperative treatment in low-moderate risk rectal cancer  | PASCALE                       | Clinical | Oncology   | Oncology 2 - Translational Clinical       | <b>12</b>    |
| RF-2011-02347420 | Monitoring disease progression and phenotypic heterogeneity in hereditary ataxias: clinical, cognitive, neuroimaging, and neurophysiological study to identify early markers of cerebellar dysfunction in patients and presymptomatic carriers | CARLO BESTA                   | Clinical | Neurological diseases  | Brain Disorders and Clinical Neuroscience | <b>12</b>    |
| RF-2011-02352096 | Alcohol intake and abuse in workplaces: development of an integrated protocol based on screening questionnaire and new methods for biological sampling and analysis. Application in healthcare workers according to Italian legislation        | Emilia-Romagna                | Clinical | Diseases of environmental origin, with reference also to the workplace | Risk, Prevention and Health Behavior      | <b>12,25</b> |

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**PROGETTI FINANZIATI**

| <b>CODICE</b> | <b>PROGETTO</b> | <b>DESTINATARIO<br/>ISTITUZIONALE</b> | <b>Tipo</b> | <b>Area</b> | <b>Classificazione<br/>1 Liv.</b> | <b>SCORE.</b> |
|---------------|-----------------|---------------------------------------|-------------|-------------|-----------------------------------|---------------|
|---------------|-----------------|---------------------------------------|-------------|-------------|-----------------------------------|---------------|





# Ministero della Salute

Direzione Generale Ricerca Sanitaria e Biomedica e della Vigilanza sugli Enti

## BANDO 2011-2012 RICERCA FINALIZZATA - Progetti Network PROGETTI FINANZIATI

CODICE NETWORK: NET-2011-02347173    TITOLO NETWORK: MECHANISMS AND TREATMENT OF CORONARY MICROVASCULAR DYSFUNCTION IN PATIENTS WITH GENETIC OR SECONDARY LEFT VENTRICULAR HYPERTROPHY

AREA STRATEGICANET: Metabolism disorders and cardiovascular disease    DI COORDINATORE: SAN RAFFAELE MILANO    SCORE MEDIO NETWORK **9**

| CODICE              | PROGETTO   | DESTINATARIO ISTITUZIONALE     | Area  | Classificazione 1 Liv.                  | SCORE. |
|---------------------|--|--------------------------------|---|---|--------|
| NET-2011-02347173-1 | Determinants and treatments of coronary microvascular dysfunction in hypertensive heart disease                      | Ospedale San Raffaele - Milano | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences | 7,5    |
| NET-2011-02347173-2 | Determinants and treatment of coronary microvascular dysfunction in hypertrophic cardiomyopathy                      | Toscana                        | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences | 9,75   |
| NET-2011-02347173-3 | Morphological and molecular substrates of adverse coronary arterioles remodelling in human disease and animal models | Lazio                          | Metabolism disorders and cardiovascular disease | Cardiovascular and Respiratory Sciences | 9,75   |

# BANDO 2011-212 RICERCA FINALIZZATA - Progetti Network PROGETTI FINANZIATI

CODICE NETWORK: NET-2011-02350069    TITOLO NETWORK: Development of innovative diagnostic and therapeutic approaches for primary immunodeficiencies.

AREA STRATEGICANET: The new biotechnologies    DI COORDINATORE: SAN RAFFAELE MILANO    SCORE MEDIO NETWORK    **9,25**

| CODICE              | PROGETTO   | DESTINATARIO ISTITUZIONALE       | Area                    | Classificazione 1 Liv.      | SCORE. |
|---------------------|--|----------------------------------|-------------------------|-----------------------------|--------|
| NET-2011-02350069-1 | New strategies for gene therapy of primary immunodeficiencies using regulated lentiviral vectors and gene targeting approaches                                   | Ospedale San Raffaele - Milano   | The new biotechnologies | Genes, Genomes and Genetics | 7      |
| NET-2011-02350069-2 | Advanced genomics for PID and characterization of combined immunodeficiencies  | Ospedale pediatrico Bambino Gesù | The new biotechnologies | Genes, Genomes and Genetics | 15     |
| NET-2011-02350069-3 | National registry of combined immunodeficiency (CID) and severe combined immunodeficiency (SCID): from epidemiological studies to genotype/phenotype correlation | Istituto Superiore di Sanita'    | The new biotechnologies | Genes, Genomes and Genetics | 8      |
| NET-2011-02350069-4 | Novel approaches for newborn screening of primary immunodeficiencies   | Toscana                          | The new biotechnologies | Genes, Genomes and Genetics | 7      |

# BANDO 2011-212 RICERCA FINALIZZATA - Progetti Network PROGETTI FINANZIATI

CODICE NETWORK: NET-2011-02346784    TITOLO NETWORK: Development of operational research diagnostic criteria for diagnosis of Alzheimer's disease in the preclinical/predementia phase and implementation of SOPs for imaging and CSF biomarkers in Memory Clinics. An integrated care pathway for early diagnosis a

AREA STRATEGICANET: Neurological diseases

DI COORDINATORE: CARLO BESTA

SCORE MEDIO NETWORK

**11,9**

| CODICE              | PROGETTO  | DESTINATARIO ISTITUZIONALE                    | Area                  | Classificazione 1 Liv.                    | SCORE.      |
|---------------------|---|---|-----------------------|---|-------------|
| NET-2011-02346784-1 | Current and innovative body fluids biomarkers for AD diagnosis in predementia phase and recognition of atypical forms.  | Fondazione Istituto Neurologico Carlo Besta   | Neurological diseases | Brain Disorders and Clinical Neuroscience | <b>10,5</b> |
| NET-2011-02346784-2 | Functional and molecular neuroimaging for AD diagnosis in predementia phase and recognition of atypical forms   | Ospedale San Raffaele - Milano                | Neurological diseases | Brain Disorders and Clinical Neuroscience | <b>12,5</b> |
| NET-2011-02346784-3 | Cognitive-neuropsychiatric phenotypes as clinical signature of progression from presymptomatic/subjective cognitive complaints to overt forms of typical and atypical AD. | Fondazione Santa Lucia                        | Neurological diseases | Brain Disorders and Clinical Neuroscience | <b>13,5</b> |
| NET-2011-02346784-4 | Implementation of SOPs of structural, metabolic, biochemical and molecular biomarkers of AD in Expert Memory Clinics of the National Health Service                       | Centro San Giovanni di Dio Fatebenefratelli   | Neurological diseases | Brain Disorders and Clinical Neuroscience | <b>11</b>   |
| NET-2011-02346784-5 | Implementation and evaluation of an Integrated Care Pathway for dementia in the National Health Service of five Italian Regions.  | Regione Lombardia - Direzione Generale Sanità | Neurological diseases | Brain Disorders and Clinical Neuroscience | <b>12</b>   |



