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| **Successful FP7 Health Projects 2007-2013** | | | | |
| **Project Title** | **Project Acronym** | **Call Closure Date** | **PI Name** | **Institution/Business** |
| Memory loss in Alzheimer disease: underlying mechanisms and therapeutic targets | **MEMOSAD** | 19-Apr-07 | Dominic Walsh | UCD |
| Apoptosis systems biology applied to cancer and AIDS. An integrated approach of experimental biology, data mining, mathematical modelling, biostatistics, systems engineering and molecular medicine | **APO-SYS** | 19-Apr-07 | Jochen Prehn | RCSI |
| Assessment Of Hearing In The Elderly: Aging And Degeneration - Integration Through Immediate Intervention | **AHEAD III** | 19-Apr-07 | Jesudas Dayalan | Waterford Regional Hospital |
| Targeting HIV Integration Co-Factors, Targeting Cellular Proteins During Nuclear import Or Integration of HIV | **THINC** | 19-Apr-07 | Reginald Clayton | Tibotec Pharmaceuticals LTD |
| Neurobiological Mechanisms of Memory Loss in Alzheimer's Disease | **MEMOLOAD** | 19-Apr-07 | Michael Rowan | TCD |
| Unravelling the molecular basis of common complex human disorders using the dog as a model system | **LUPA** | 19-Apr-07 | John Joseph Callanan | UCD |
| Nasal Vaccination Against Respiratory Infections In Young Children | **CHILD-INNOVAC** | 19-Apr-07 | Bernard Mahon | NUI Maynooth |
| Automatic Cancer Screening Based on Real-time PCR | **AutoCast** | 19-Apr-07 | Cara Martin | TCD |
| Hybrid PET-MR system for concurrent ultra-sensitive imaging | **HYPERImage** | 19-Apr-07 | John Murphy | SensL Technologies Ltd |
| Serotonin and GABA-B receptors in anxiety: from developmental risk factors to treatment. | **DEVANX** | 19-Apr-07 | John Cryan | UCC |
| Ultra-high resolution and ultra-sensitive fluorescence methods for objective sub-cellular diagnosis of early disease and disease progression in breast and prostate cancer | **FLUODIAMON** | 19-Apr-07 | John Murphy | SensL Technologies Ltd |
| Portable automated test for fast detection and surveillance of influenza | **PORTFASTFLU** | 19-Apr-07 | Adrian Kewell | Biosensia Ltd |
| IBD: proteases offer new targets for drug discovery | **IPODD** | 19-Apr-07 | Fergus Shanahan | UCC |
| IBD: proteases offer new targets for drug discovery | **IPODD** | 19-Apr-07 | Jennifer Roper | Alimentary Health Limited |
| Nasal Pandemic Influenza Vaccine | **NASPANVAC** | 19-Apr-07 | Kingston Mills | TCD |
| Evaluation of Legislation and Related Guidelines on the Procurement, Storage and Transfer of Human Tissues and Cells in the European Union – an Evidence-Based Impact Analysis | **TISS.EU** | 19-Apr-07 | Cliona McGovern | UCD |
| Profiling the toxicity of new drugs: a non-animal-based approach integrating toxicodynamics and biokinetics | **Predict-IV** | 19-Apr-07 | Leonard Martin | UCD |
| Early diagnosis, treatment and prevention of mood disorders targetting the activated inflammatory response system | **MOODINFLAME** | 18-Sep-07 | Thomas Connor | TCD |
| A PHArmacogenomic study of Statins in the Elderly at risk for cardiovascular disease | **PHASE** | 18-Sep-07 | Brendan Buckley | UCC |
| MEDiterranean studies of Cardiovascular disease and Hyperglycaemia: Analytical Modelling of Population Socio-economic transitions | **MEDCHAMPS** | 18-Sep-07 | Kathleen Bennett | TCD |
| Save Young Lives in Europe: Promote health through prevention of risk-taking and self-destructive behaviors | **SAYLE** | 18-Sep-07 | Paul Corcoran | National Suicide Research Foundation |
| Optimizing suicide prevention programs and their implementation in Europe | **OSPI-Europe** | 18-Sep-07 | Ella Arensman | National Suicide Research Foundation |
| Good Practice in Traditional Chinese Medicine Research in the Post-genomic Era | **GP-TCM** | 18-Sep-07 | Helen Sheridan | TCD |
| Utilisation of the mesenchymal stem cell receptome for rational development of uniform, serum-free culture conditions and tools for cell characterization | **PurStem** | 18-Sep-07 | Margaret Rae | National University of Ireland Galway, National Cell and Gene Therapy Facility |
| Utilisation of the mesenchymal stem cell receptome for rational development of uniform, serum-free culture conditions and tools for cell characterization | **PurStem** | 18-Sep-07 | Frank Barry (Coordinator) | REMEDI |
| Utilisation of the mesenchymal stem cell receptome for rational development of uniform, serum-free culture conditions and tools for cell characterization | **PurStem** | 18-Sep-07 | Peter Daly | Lucina |
| Utilisation of the mesenchymal stem cell receptome for rational development of uniform, serum-free culture conditions and tools for cell characterization | **PurStem** | 18-Sep-07 | Timothy Rowan | OIL |
| Utilisation of the mesenchymal stem cell receptome for rational development of uniform, serum-free culture conditions and tools for cell characterization | **PurStem** | 18-Sep-07 | Ciaran Clissmann | Pintail |
| EuroDRG – Diagnosis-Related Groups in Europe: towards Efficiency and Quality | **EuroDRG** | 18-Sep-07 | Jennifer Bremner | European Health Management Association |
| Pricing Policies and Control of Tobacco in Europe | **PPACTE** | 18-Sep-07 | Luke Clancy (Coordinator) | Research Institute for a Tobacco Free Society |
| HEALTH PROfessional Mobility in THe European Union Study | **HEALTH PROMeTHEUS** | 18-Sep-07 | Jeni Bremner (Coordinator) | European Health Management Association |
| Developing minimally invasive, tools and technologies for high throughput, low cost molecular assays for the early diagnosis of schizophrenia and other psychiatric disorders | **SchizDX** | 18-Sep-07 | Pauline Rudd | UCD |
| Nurse Forecasting: Human Resources Planning in Nursing | **RN4CAST** | 18-Sep-07 | Anne Scott | DCU |
| Enabling universal and equitable access to healthcare for vulnerable people in poor resource settings | **EquitAble** | 18-Sep-07 | Malcolm McLachlan (Coordinator) | TCD |
| Sensory and Biomechanical Markers in Diabetic Neuropathy of the Gut. Basic Investigations and New Approaches for Treatment | **DIAMARK** | 18-Sep-07 | Barry McMahon | Diagles LTD |
| Facilitating Implementation of Research Evidence | **FIRE** | 18-Sep-07 | Geraldine McCarthy | UCC |
| Treatment of NEonatal seizures with Medication Off-patent: evaluation of efficacy and safety of bumetanide | **NEMO** | 03-12-08 | Geraldine Boylan | UCC |
| Systems biology towards novel chronic kidney disease diagnosis and treatment | **SysKID** | 03-12-08 | Michael Ryan | UCD |
| ADIPOSE DERIVED STROMAL CELLS FOR OSTEOARTHRITIS | **ADIPOA** | 03-12-08 | Frank Barry | NUI Galway |
| Use of a Multidrug Pill In Reducing cv Events | **UMPIRE** | 03-12-08 | Alice Stanton | RCSI |
| European Consortium for Communicating Stem Cell Research | **EuroStemCell** | 03-12-08 | Karen Duffy | REMEDI |
| A systems biology approach to dissect cilia function and its disruption in human genetic disease | **SYSCILIA** | 22-04-09 | Oliver Blacque | UCD |
| Improving quality and safety in the hospital: The link between organisational culture, burnout, and quality of care | **ORCAB** | 03-12-08 | Anthony Montgomery | UCC |
| Combined Highly Active Anti-retroviral Microbicides | **CHAARM** | 03-12-08 | Carol Leland | Tibotec Pharmaceuticals |
| RICHE – a platform and inventory for child health research in Europe | **RICHE** | 03-12-08 | Anthony Staines (Coordinator) | DCU |
| RICHE – a platform and inventory for child health research in Europe | **RICHE** | 03-12-08 | Con Hennessy | Open Applications Consulting Limited |
| RICHE – a platform and inventory for child health research in Europe | **RICHE** | 03-12-08 | Anne McCarthy | Health Research Board |
| Vitamin D And LIfestyle Intervention for Gestational Diabetes Mellitus (GDM) Prevention | **DALI** | 03-12-08 | Fidelma Dunne | NUI Galway |
| European Collaboration for Healthcare Optimization | **ECHO** | 03-12-08 | Jeni Bremner | European Health Management Association |
| 2010 Results | | | | |
| Tools for the Detection of Novel Glyco-biomarkers | **GlycoBioM** | 11-02-2010 | Pauline Rudd | National Institute for Bioprocessing Research and Training |
| Fast Automated Multiplex Analysis of Neonatal Sepsis Markers on a Centrifugal Microfluidic Platform | **ASCMicroPlat** | 11-02-2010 | Orla Shields | TCD |
| Analysing and Striking the Sensitivities of Embryonal Tumours *(Systems Biology)* | **ASSET** | 11-02-2010 | Walter Kolch  (Coordinator) | UCD |
| European multidisciplinary ALS network identification to cure motor neuron degeneration | **Euro-MOTOR** | 11-02-2010 | Orla Hardiman | TCD |
| PanCare Childhood and adolescent Cancer Survivor Care and Follow-up Studies | **PanCareSurFup** | 11-02-2010 | Julianne Byrne | Boyne Research Institute |
| Rational Therapy for Breast Cancer: individualised Treatment for Difficult-to-treat Breast Cancer Subtypes | **Rather** | 11-02-2010 | Mairin Rafferty | OncoMark Limited |
| Rational Therapy for Breast Cancer: individualised Treatment for Difficult-to-treat Breast Cancer Subtypes | **Rather** | 11-02-2010 | William Gallagher  (Coordinator) | UCD |
| REsearch into implementation Strategies to support patients of different Origins and language background in a variety of European primary care settings | **Restore** | 11-02-2010 | Anne MacFarlane (Coordinator) | NUI Galway (Department of General Practice) |
| Development of OPN-305 as an orphan drug for the treatment of Delayed Graft Function post solid organ transplantation | **MABSOT** | 19-11-09 | Mary Reilly  (Coordinator) | Opsona Therapeutics Limited |
| Management of Hypotension In the Preterm Extremely Low Gestational Age Newborn | **The HIP Trial** | 19-11-09 | Gene Dempsey (Coordinator) | UCC |
| Clinical Officer Surgical Training in Africa | **COST- Africa** | 14-01-2010 | Ruairi Brugha  (Coordinator) | RCSI |
| The Metabolic Road to DIAstolic Heart Failure | **MEDIA** | 19-11-09 | Mark Ledwidge | UCD |
| Genetic testing in Europe- Network for the future development, harmonisation, validation and standardization of services | **EuroGentest2** | 19-11-09 | David Barton | UCD |
| Glycomics by High-throughput Integrated Technologies | **GlycoHIT** | 19-11-09 | Lokesh Joshi  (Coordinator) | NUI Galway |
| Glycomics by High-throughput Integrated Technologies | **GlycoHIT** | 19-11-09 | Ciaran Clissman | Pintail Ltd |
| Coordination Action in support of the implementation of a Joint Programme Initiative for Combating Neurodegenerative Diseases, in particular Alzheimer’s disease | **Jumpahead** | 19-11-09 | Enda Connolly | HRB |
| Attention Deficit Hyperactivity Disorder Drugs Use Chronic Effects | **ADDUCE** | 19-11-09 | Suzanne McCarthy | UCC |
| **2011 Results** | | | | |
| A European multicentre double-blind placebo controlled phase III trial of nilvadipine versus placebo in mild to moderate Alzheimer’s disease | **NILVAD** | 13-10-2010 | Brian Lawlor  Coordinator | TCD |
| A European multicentre double-blind placebo controlled phase III trial of nilvadipine versus placebo in mild to moderate Alzheimer’s disease | **NILVAD** | 13-10-2010 | Siobhan Gaynor | MMI |
| A European multicentre double-blind placebo controlled phase III trial of nilvadipine versus placebo in mild to moderate Alzheimer’s disease | **NILVAD** | 13-10-2010 | Marie Moynihan | Newsweaver |
| A European multicentre double-blind placebo controlled phase III trial of nilvadipine versus placebo in mild to moderate Alzheimer’s disease | **NILVAD** | 13-10-2010 | Gloria Crispino-O’Connell | UCD |
| A European multicentre double-blind placebo controlled phase III trial of nilvadipine versus placebo in mild to moderate Alzheimer’s disease | **NILVAD** | 13-10-2010 | Willie Molloy | UCC |
| A European multicentre double-blind placebo controlled phase III trial of nilvadipine versus placebo in mild to moderate Alzheimer’s disease | **NILVAD** | 13-10-2010 | Rose Anne Kenny | St James’s Hospital |
| Predictive Genomic Biomarker Methods for Combination Bevacizumab (Avastin) Therapy in Metastatic Colorectal Cancer | **ANGIOPREDICT** | 13-10-2010 | Annette Byrne  Coordinator | RCSI |
| Predictive Genomic Biomarker Methods for Combination Bevacizumab (Avastin) Therapy in Metastatic Colorectal Cancer | **ANGIOPREDICT** | 13-10-2010 | Mairin Rafferty | Oncomark |
| Predictive Genomic Biomarker Methods for Combination Bevacizumab (Avastin) Therapy in Metastatic Colorectal Cancer | **ANGIOPREDICT** | 13-10-2010 | Liam Gallagher | UCD |
| Predictive Genomic Biomarker Methods for Combination Bevacizumab (Avastin) Therapy in Metastatic Colorectal Cancer | **ANGIOPREDICT** | 13-10-2010 | Verena Murphy | ICORG |
| Protein interaction machines in oncogenic EGF receptor signalling | **PRIMES** | 13-10-2010 | Walter Kolch  Coordinator | UCD |
| Protein interaction machines in oncogenic EGF receptor signalling | **PRIMES** | 13-10-2010 | David Lynn | Teagasc |
| Mechanisms of prevention of type 2 diabetes by lifestyle intervention in subjects with pre-diabetes or at high-risk for progression | **DEXLIFE** | 13-10-2010 | Donal O’Gorman | DCU |
| Mechanisms of prevention of type 2 diabetes by lifestyle intervention in subjects with pre-diabetes or at high-risk for progression | **DEXLIFE** | 13-10-2010 | Bernadette Carr | VHI |
| Mechanisms of prevention of type 2 diabetes by lifestyle intervention in subjects with pre-diabetes or at high-risk for progression | **DEXLIFE** | 13-10-2010 | Ciaran Clissman | Pintail |
| Methods for high-throughput (HTP) analysis of protein glycosylation | **HighGlycan** | 13-10-2010 | Pauline Rudd | NIBRT |
| Scaffolds for alternative delivery | **SADEL** | 13-10-2010 |  | ELAN Pharma |
| Multi-modal effects of thyroid hormone replacement for untreated older adults with subclinical hypothyroidism: a randomised placebo-controlled trial | **TRUST** | 13-10-2010 | Patricia Kearney | UCC |
| Translational Adolescent and Childhood Therapeutic Interventions in Compulsive Syndromes | **TATICS** | 13-10-2010 | John Cryan | UCC |
| Epilepsy Pharmacogenomics: delivering biomarkers for clinical use | **EpiPGX** | 13-10-2010 | Gianpiero Cavalleri | RCSI |
| Advanced Immunisation Technologies | **ADITEC** | 10-11-2010 | Ivan Coulter | Sigmoid Pharma |
| NCDs and their social determinants in Mediterranean partner countries: building sustainable research capacity for effective policy intervention | **RESCAP-MED** | 10-11-2010 | Kathleen Bennett | TCD |
| Targeting novel Mechanisms of Resolution in inflammation | **TIMER** | 10-11-2010 | Luke O’Neill | TCD |
| **2012 Results – Innovation 1** | | | | |
| Improving the organisation of maternal health service delivery, and optimising childbirth, by increasing vaginal birth after caesarean section (VBAC) through enhanced women-centred care. | **OptiBIRTH** |  | Cecily Begley  Coordinator | TCD |
| Improving the organisation of maternal health service delivery, and optimising childbirth, by increasing vaginal birth after caesarean section (VBAC) through enhanced women-centred care. | **OptiBIRTH** |  | Declan Devane | NUI Galway |
| Apoptosis Modelling for Treatment Decisions in Colorectal Cancer | **APO-DECIDE** |  | Jochen Prehn  Coordinator | RCSI |
| Apoptosis Modelling for Treatment Decisions in Colorectal Cancer | **APO-DECIDE** |  | Mairin Rafferty | Oncomark |
| Apoptosis Modelling for Treatment Decisions in Colorectal Cancer | **APO-DECIDE** |  | Ciaran Clissman | Pintail |
| IMPROvED : Improved Pregnancy Outcomes by Early Detectio; personalized medicine for pregnant women: novel metabolomics and proteomic biomarkers to detect pre-eclampsia and improved outcome | **IMPROvED** |  | Louise Kenny  Coordinator | UCC |
| IMPROvED : Improved Pregnancy Outcomes by Early Detectio; personalized medicine for pregnant women: novel metabolomics and proteomic biomarkers to detect pre-eclampsia and improved outcome | **IMPROvED** |  | Charles Garvey | Metabolomic Diagnostics Ltd |
| Innovative Midlife Intervention for Dementia deterrence | **In MINDD** |  | Kate Irvine  Coordinator | DCU |
| Innovative Midlife Intervention for Dementia deterrence | **In MINDD** |  | Ciaran Clissman | Pintail |
| Repair of Diabetic Damage by Stromal Cell Administration | **REDDSTAR** |  | Tim O’Brien  Coordinator | NUI Galway |
| Repair of Diabetic Damage by Stromal Cell Administration | **REDDSTAR** |  | Steve Elliman | Pro-cure Laboratories Ltd |
| Repair of Diabetic Damage by Stromal Cell Administration | **REDDSTAR** |  | Ciaran Clissman | Pintail |
| Development and clinical trials of a new Software Engine for the Assessment & Optimization of drug and non-drug Therapy in Older peRsons | **SENATOR** |  | Denis O’Mahony  Coordinator | UCC |
| Development and clinical trials of a new Software Engine for the Assessment & Optimization of drug and non-drug Therapy in Older peRsons | **SENATOR** |  |  | Helix Health Limited |
| A Sharing Approach to Promoting Science | **ASAPS** |  | Sabina Brennan  Coordinator | TCD |
| A Sharing Approach to Promoting Science | **ASAPS** |  | Mary Doherty | Red Dog Graphics |
| 2013 Epilepsey Research Forum | **ERFIP2013** |  | Eoin Sheanon  Coordinator | Chancel Limited |
| 2013 Epilepsey Research Forum | **ERFIP2013** |  |  | International Bureau for Epilepsy |
| The COMET (Core Outcome Measures in Effectiveness Trials) Initiative | **COMET** |  | Cecily Begley | TCD |
| Coordinating Action Systems Medicine – Implementation of Systems Medicine across Europe | **CASyM** |  | Walter Kolch | UCD |
| Systems biology approaches to cervical pre-cancer and cancer | **SYSTEMCERV** |  | John O’Leary | TCD |
| Prevention of hepatitis C virus and HIV-1 co-infections through induction of potent T cell responses using prime-boost viral vector vaccine regimes | **PEACHI** |  | Colm Bergin | St James’s Hospital |
| Intervention Research on Health Literacy among Ageing population | **IROHLA** |  | Margaret Barry | NUI Galway |
| Identifying best practices for care-dependent elderly by Benchmarking Costs and outcomes of community care | **IBenC** |  | Jeni Bremner | European Health Management Association |
| Enhancing the (cost-) effectiveness of diabetes self-management education: A comparative assessment of different educational approaches and conditions for successful implementation | **Diabetes Literacy** |  | Gerardine Doyle | UCD |
| Supporting Low-cost Intervention For disease control | **Supporting LIFE** |  | John O’Donoghue  Coordinator | UCC |
| Monitoring innate immunity in arthritis and mucosal inflammation | **MIAMI** |  | Stephen Pennington | UCD |
| **Innovation 2** | | | | |
| Development of Functionalised Cell Seeded Bioartificial Organ for Transplantation in Nerve Repair | **NeuroGraft** |  | Abhay Pandit  Coordinator | NUI Galway |
| Development of Functionalised Cell Seeded Bioartificial Organ for Transplantation in Nerve Repair | **NeuroGraft** |  | Wenxin Wang | Vornia Limited |
| Rapid Identification of Respiratory Tract Infections | **RID-RTI** |  | Tom Barry | NUI Galway |
| A new nanotechnology-based paradigm for engineering vascularised liver tissue for transplantation | **NanoBio4Trans** |  | **Richard Fernandes** | Luxcel Biosciences Ltd |
| **2013 Results – Innovation 1** | | | | |
| MicroRNAs in the Pathogenesis, Treatment and Prevention of Epilepsy | **EpiMiRNA** |  | **David Henshall**  **Coordinator** | RCSI |
| A Gateway to European Kidney Research Resources | **KidneyConnect** |  | **Harry Holtofer**  **Coordinator** | DCU |
| Cystic Fibrosis Microbiome-determined Antibiotic Therapy Trial in Exacerbations: Results Stratified. | **CFMATTERS** |  | **Barry Plant**  **Coordinator** | UCC |
| Cystic Fibrosis Microbiome-determined Antibiotic Therapy Trial in Exacerbations: Results Stratified. | **CFMATTERS** |  | **Catherine Stanton** | Teagasc, Food research Centre |
|  | **MERLIN** |  | Stephen Elliman | Orbsen Therapeutics Ltd |
| A Phase 1b/II study of MEK1/2 inhibitor PD-0325901 with cMET inhibitor PF-02341066 in KRASMT and KRASWT (with aberrant c-MET) Colorectal Cancer Patients. | **MerCuRIC** |  | Bryan Hennessy | RCSI |
| A Phase 1b/II study of MEK1/2 inhibitor PD-0325901 with cMET inhibitor PF-02341066 in KRASMT and KRASWT (with aberrant c-MET) Colorectal Cancer Patients. | **MerCuRIC** |  | Ciaran Clissman | Pintail |
| Social innovation to improve physical activity and sedentary behaviour through elite European football clubs: European Fans in Training. | **EuroFFIT** |  | Ciaran Clissman | Pintail |
| PanCare Studies in Fertility and Ototoxicity to Improve Quality of Life after Cancer during Childhood, Adolescence and Young Adulthood. | **PanCareLife** |  | Julianne Byrne | Boyne Research Centre |
| PanCare Studies in Fertility and Ototoxicity to Improve Quality of Life after Cancer during Childhood, Adolescence and Young Adulthood. | **PanCareLife** |  | Ciaran Clissman | Pintail |
| Global initiative on gene-environment interaction on diabetes/obesity risk. | **InterConnect** |  | Donal O’Gorman | DCU |
| Global initiative on gene-environment interaction on diabetes/obesity risk. | **InterConnect** |  | Ciaran Duffy | Enterprise Ireland |
| Hepatic and Cardiac Toxicity Systems modelling | **HeCaToS** |  | **Richard Fernandes** | Luxcel Biosciences Limited |
| Randomised controlled trial to evaluate electronic system management using the Advanced Symptom System (ASyMS) Remote Technology for patients with cancers. | **eSmart** |  | Eileen Furlong & Patricia Fox | UCD |
| THE MILESTONE PROJECT: Managing the Link and Strengthening Transition from Child to Adult Mental Health Care | **MILESTONE** |  | Fiona McNicholas | UCD |
| Platform foR European Preparedness Against (Re-) emerging Epidemics. | **PREPARE** |  | Alistair Nichol | UCD |
| Platform foR European Preparedness Against (Re-) emerging Epidemics. | **PREPARE** |  | Carol Leland | Tibotech Pharmaceuticals Ltd |
| FemNAT - CD | **FemNAT-CD** |  | Louise Gallagher | TCD |
| Multimodal Imaging of Neurological Disorders | **MINDView** |  | Bryan Campbell | Sensl Technologies Limited |
| Translating neuroimaging findings from research into clinical practice | **PSYSCAN** |  | Colm McDonald | NUI Galway |
| European Gender Medicine Network. | **EUGENMED** |  |  | European Institute of Women’s Health Ltd |
| Diagnostic Imaging Strategies for Patients with Stable Chest Pain and Intermediate Risk of Coronary Artery Disease: Comparative Effectiveness Research of Existing Technologies. | **DISCHARGE** |  | Dr Jonathan Dodd | St Vincent’s Hospital |
| Targeting cardiac fibrosis for heart failure treatment | **Fibro-Targets** |  | Professor Kenneth McDonald | UCD, St. Vincent’s Hospital |
| Targeted and tailored Antibiotic treatment in older people with Lowe Respiratory tract infectious Disease. | **TAILORED** |  | Andrew Murphy | NUI Galway |