MRC DTP iCASE Industrial Networking Day KCL Principal Investigators and Their Areas of Expertise

Oncology:

PI	School, Faculty	Fields of interest
Professor Miraz Rahman	School of Cancer & Pharmaceutical	 Payload development for antibody drug conjugates
https://www.kcl.ac.u	Sciences, FOLS&M	 Proteolysis Targeting Chimeras
k/people/miraz-		(PROTACs)
<u>rahman</u>		Kinase inhibitors
Dr Igor Vivanco (https://www.kcl.ac. uk/people/igor- vivanco-1)	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Identifying cellular processes (i.e those engage by active oncogenes) that drive cancer-selective susceptibilities, and therapeutic targets that exploit these liabilities Drug repurposing Extensive expertise in characterising MoAs for compounds.
Dr Erin Stella Sullivan	School of Life	Medical Nutrition Products, Dietetics
(<u>https://kclpure.kcl.a</u>	Course &	Oncology
c.uk/portal/en/perso	Population	Palliative Care
ns/erin stella.sulliva	Sciences, FOLS&M	Body Composition, Sarcopenia &
<u>n</u>)		Frailty,
		Complex Interventions
		Radiomics, Diagnostics
Dr Robbert	School of Cancer &	• Cancer
Hoogeboom	Pharmaceutical	Lymphoma, B cell Chronic
(https://www.kcl.ac. uk/research/lympho	Sciences, FOLS&M	Lymphocytic Leukaemia
ma-signalling)		Immunology, B cell immune responses
Prof Mieke Van	School of Cancer &	Cancer Epidemiology
Hemelrijck	Pharmaceutical	
(https://www.kcl.ac.	Sciences, FOLS&M	
<u>uk/research/tour</u>)		
Dr Gerald Finnerty	School of	Brain tumours
(https://geraldfinner	Neuroscience,	
ty.wixsite.com/finner	IoPPN	
<u>tylab</u>)		
Dr. Alan G. Ramsay	School of Cancer &	Immunotherapy
(https://www.kcl.ac.	Pharmaceutical	Cancer Lymph Node Immunology
uk/people/dr-alan-	Sciences, FOLS&M	
ramsay)		Landa and Louis
Dr Piers Patten	School of Cancer &	Lymphoma and CLL
(https://www.kcl.ac.	Pharmaceutical	
<u>uk/research/lympho</u> <u>ma-biology</u>)	Sciences, FOLS&M	

Dr Graeme Hewitt (https://www.kcl.ac. uk/people/graeme- hewitt)	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Whole genome CRISPR screens Proteomics Cell-based assays Genetic dependencies in DNA Damage repair pathways
Dr Matthias Krause (https://cytoskeleton .wixsite.com/krausel ab)	School of Basic & Medical Biosciences, FOLS&M	 Fundamental mechanisms controlling cell migration, proliferation and polarity Uncovering signal transduction pathways (controlling the actin cytoskeleton) Mechanism of cytoskeletal dynamics Endocytic vesicle trafficking Biochemical and live cell advanced imaging approaches (FRET-FLIM, super-resolution, TIRF) Defining novel biomarkers and drug targets

Cardiovascular Diseases:

PI	School, Faculty	Fields of interest
Dr Matthew Stroud (School of	Cardiovascular
www.stroudlab.com	Cardiovascular and	Skeletal muscle
	Metabolic	Ageing
	Medicine &	
	Sciences, FOLS&M	
Prof Albert Ferro	School of	Role of inflammation in
(https://www.kcl.ac.	Cardiovascular and	atherosclerosis - specifically with a
uk/people/albert-	Metabolic	view to identifying novel biomarkers
ferro-1)	Medicine &	as well as novel therapeutic targets in
	Sciences, FOLS&M	atherosclerosis
Dr Joaquim Nunes	School of	Cardiovascular development and
Vieira	Cardiovascular and	regeneration
(https://www.kcl.ac.	Metabolic	 Understanding of the cellular and
uk/people/joaquim-	Medicine &	molecular interactions underpinning
<u>nunes-vieira</u>)	Sciences, FOLS&M	heart formation
		Use of mouse genetics, microscopy, in
		vitro assays (e.g. hiPSC/organoids) and
		next-generation sequencing platforms

Dr Lingfang Zeng (https://kclpure.kcl.a c.uk/portal/en/perso ns/lingfang.zeng)	School of Cardiovascular and Metabolic Medicine & Sciences, FOLS&M	 Micropeptides or microproteins from short open reading frames and their potential implication in cardiovascular remodelling Diabetes Obesity Cancer
Dr Javier Barallobre-	School of	Cardiac Extracellular Matrix in Disease
Barreiro	Cardiovascular and	and Development
(https://www.kcl.ac.	Metabolic	
uk/people/dr-javier-	Medicine &	
barallobre-barreiro)	Sciences, FOLS&M	

Neurology:

PI	School, Faculty	Fields of interest
Dr Anna Andreou	School of	Headaches, migraine, cluster
(https://www.heada	Neuroscience,	headache, pain,
che-research.com/)	IoPPN	Neuroscience, neuromodulation,
		Animal models, electrophysiology,
		Transcranial magnetic stimulation
Dr Franziska Denk	School of	Neuro-Immune-Stromal Interactions
(https://www.franzis	Neuroscience,	
kadenk.com)	IoPPN	
Dr Alfredo Iacoangeli	School of Mental	Bioinformatics
(https://www.kcl.ac.	Health &	Multi-omics, genomics
uk/people/alfredo-	Psychological	Neurodegenerative diseases
<u>iacoangeli</u>)	Sciences, IoPPN	Machine learning
Prof Federico E	School of	Neuroimaging (pre-clinical, clinical)
Turkheimer	Neuroscience,	Computational Neuroscience
(https://www.kcl.ac.	IoPPN	Blockchain technology
uk/people/federico-		
turkheimer)		
Dr Ulrike	School of Basic &	Motor recovery after stroke
Hammerbeck	Medical	
(https://www.kcl.ac.	Biosciences,	
<u>uk/people/ulrike-</u>	FOLS&M	
<u>hammerbeck</u>)		
Dr Aminul Ahmed	School of	Neurotrauma and clinical translation
(https://www.kcl.ac.	Neuroscience,	
uk/people/aminul-	IoPPN	
<u>ahmed</u>)		
Prof Sandrine Thuret	School of	Neuroscience
(https://www.thuretl	Neuroscience,	Stem Cells
ab.com/)	IoPPN	Biomarkers
		Ageing
		Dementia
		Depression
		Neurogenesis
Prof Benedikt	School of	Conversion of glia into induced
Berninger	Neuroscience,	neurons
(https://www.kcl.ac.	IoPPN	Replacement of neurons lost to
uk/people/benedikt-		disease or injury for brain repair
<u>berninger</u>)		Use of mouse and human in vitro and
		in vivo models to induce conversion of
		glia (e.g., astrocytes) into neurons
		with clinically relevant properties
Dr Anthony Vernon	School of	Neuro-immune interactions
(https://www.kcl.ac.	Neuroscience,	 Neuropsychopharmacology
uk/people/anthony-	IoPPN	Microglia
<u>vernon</u>)		Human induced pluripotent stem cell
		models

Prof Mitul Mehta	School of	Psychopharmacology
(https://www.kcl.ac.	Neuroscience,	Therapeutics
uk/people/mitul-	IoPPN	Neuroimaging
mehta)		
Prof Corinne Houart	School of	Neurodevelopment
(https://devneuro.or	Neuroscience,	Neurodegenerative disorders
g/cdn/)	IoPPN	-
Dr Richard Eva	School of	Neuronal and axon biology
(https://www.kcl.ac.	Neuroscience,	 CNS axon regeneration and
uk/people/richard-	IoPPN	neuroprotection, in the retina, optic
<u>eva</u>)		nerve, brain and spinal cord
		In vitro and in vivo models of axonal
		injury and disease
		Gene therapy for the treatment of
		glaucoma

Diabetes and Endocrinology:

PI	School, Faculty	Fields of interest
Dr Paul Caton	School of	Diabetes
(https://www.kcl.ac.	Cardiovascular and	
uk/people/paul-	Metabolic	
<u>caton)</u>	Medicine &	
	Sciences, FOLS&M	
Prof Luigi Gnudi	School of	 Vascular repair, sodium, diabetes,
(https://www.kcl.ac.	Cardiovascular and	kidney
uk/people/luigi-	Metabolic	
gnudi)	Medicine &	
	Sciences, FOLS&M	

Infectious Diseases:

PI	School, Faculty	Fields of interest
Professor Miraz Rahman https://www.kcl.ac.u k/people/miraz- rahman	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Efflux resistance breaker technology New generation antibiotic New classes of antifungal agents Biocides
Prof James Mason (https://www.kcl.ac. uk/people/james- mason)	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Antimicrobial drug discovery, functional microbiome interactions, microbial metabolism and metabolomics, nucleic acid delivery
Dr Bahijja Raimi- Abraham (<u>https://www.kcl.ac.</u>	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Pharmaceutical challenges in infectious diseases Generation of non-animal cell-based infectious disease models

uk/people/bahijja- raimi-abraham)		Design and development of nanotheranostic antimicrobial metallodrugs.
Dr Richard Amison https://www.kcl.ac.u k/people/richard- amison	School of Cancer & Pharmaceutical Sciences, FOLS&M	Animal models of infection

Immunology:

PI	School, Faculty	Fields of interest
Dr Magdalena Flak	Centre for Host-	Role of resolution mechanisms in the
(https://www.kcl.ac.	Microbiome	regulation of host-microbiota
uk/people/magdalen	Interactions,	interactions during health and chronic
<u>a-flak</u>)	FoDOCS	inflammatory disease

Psychiatry:

PI	School, Faculty	Fields of interest
Dr Angela Hodges (https://kclpure.kcl.ac .uk/portal/en/perso ns/angela.k.hodges)	School of Academic Psychiatry, IoPPN	 Translation of genetic knowledge into tools for drug development - for Alzheimer's disease (targeting microglia; SORL1, CD33, TREM2) Impulsivity - Juvenile Myoclonic Epilepsy (GABAergic neurons; SLCO5A1 brain transporters)
Prof Andre Strydom (https://www.kcl.ac. uk/people/professor -andre-strydom)	School of Academic Psychiatry, IoPPN	 Alzheimer's disease Neurodevelopmental disorders Down syndrome Rare diseases associated with intellectual disability
Dr Maria Livanou (https://www.kcl.ac. uk/people/maria- livanou)	School of Mental Health & Psychological Sciences, IoPPN	Child and adolescent mental health
Dr Gonzalo Salazar de Pablo (https://www.kcl.ac. uk/people/gonzalo- salazar-de-pablo)	School of Academic Psychiatry, IoPPN	 Bipolar Disorder in adolescents Early onset psychosis
Dr Will Lawn (https://www.kcl.ac. uk/people/will-lawn)	School of Mental Health & Psychological Sciences, IoPPN	 Psychopharmacology Cannabis, medical cannabis Reducing and treating opioid overdose, treatments for addiction Clinical application of ketamine
Dr Paul Stokes (https://www.kcl.ac. uk/people/paul- stokes)	School of Academic Psychiatry, IoPPN	 Psychopharmacology Mood disorders Neuroimaging (pharmacological functional neuroimaging) Clinical trials
Dr Erica Cini (https://www.resear chgate.net/profile/Er ica-Cini)	School of Academic Psychiatry, IoPPN	Eating Disorders
Dr Jonathan Coleman (https://www.kcl.ac. uk/people/jonathan- coleman)	School of Mental Health & Psychological Sciences, IoPPN	 Psychiatric genetics Application of genome-wide methods to biological models Predictive algorithms
Dr Julia Ouzia (https://www.kcl.ac. uk/people/julia- ouzia)	School of Mental Health & Psychological Sciences, IoPPN	Multilingual cognitionRelational psychotherapy

Biomedical imaging:

PI	School, Faculty	Fields of interest
Dr Ozlem Ipek (https://www.kcl.ac. uk/people/ozlem- ipek)	School of Biomedical Engineering & Imaging Sciences, FOLS&M	Biomedical Imaging
Dr David Lilburn (https://www.resear chgate.net/profile/D avid-Lilburn)	School of Biomedical Engineering & Imaging Sciences, FOLS&M	 Imaging of neurological disorders using PET/SPECT and MR imaging Functional oncological imaging
Prof Simon Ameer- Beg (https://www.kcl.ac. uk/people/simon- ameer-beg)	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Fluorescence lifetime imaging Protein-protein interactions FRET Advanced functional imaging Fluorescence anisotropy Single molecule imaging and superresolution
Dr Po-Wah So (https://kclpure.kcl.a c.uk/portal/en/perso ns/po-wah.so)	School of Neuroscience, IOPPN	 Neuroimaging Role of metals, particularly iron in health and disease, especially in brain ageing and Alzheimer's disease

Other Areas of Expertise

PI	Area	School, Faculty	Fields of interest
Prof Ben Forbes	Drug delivery	School of Cancer	Development of medicines with
(https://www.kcl.	systems	&	a focus on nasal and inhaled
ac.uk/people/ben		Pharmaceutical	dosage forms
-forbes)		Sciences,	
		FOLS&M	
Dr Ciro Chiappini	Nanomedicine	Centre for	Nanomedicine
(https://www.chi		Craniofacial &	
appinilab.com)		Regenerative	
		Biology, FoDOCS	
Dr Ricardo	Discrimination	School of	Discrimination
Twumasi		Academic	
(https://kclpure.k		Psychiatry,	
cl.ac.uk/portal/en		IoPPN	
/persons/ricardo.			
<u>twumasi</u>)			

Dr Sherif	Diagramanina	Centre for Oral,	Diagramia a sina
	Bioengineering	Clinical &	Bioengineering
Elsharkawy		Translational	
(https://www.kcl. ac.uk/people/she			
		Sciences, FoDOCS	
rif-elsharkawy)	Diagnainaguina		Bi i
Dr Vishwesh	Bioengineering	School of	Bioengineering
Kulkarni	and synthetic	Biomedical	Feedback control theory
(https://www.link	biology	Engineering &	Systems and synthetic biology
edin.com/in/vish		Imaging	
wesh-k-		Sciences, FOLS&M	
6836a79/)	Cunthatia	School of Basic	. Consthatia bialana
Dr Aleksej Zelezniak	Synthetic	& Medical	Synthetic biology
(http://synthbiola	biology	Biosciences,	
b.com/)		FOLS&M	
Prof Guy	Oral biology	Centre for Host-	• Tasto saliva salivany glands
Carpenter	Ciai biology	Microbiome	 Taste, saliva, salivary glands, innervation, mouthfeel,
(https://www.kcl.		Interactions,	astringency, lubrication, mucins,
ac.uk/people/guy		FoDOCS	plant-based proteins
-carpenter)		10000	piant-based proteins
Prof Daniel Stahl	Statistics and	School of	Development and validation of
(https://kclpure.k	modelling	Mental Health &	clinical risk prediction models
cl.ac.uk/portal/en	modelling	Psychological	chinear risk prediction models
/persons/daniel.r.		Sciences, IoPPN	
stahl)		301011003) 101111	
Dr Chloe Wong	Genetics	School of	Genetics
(https://www.kcl.		Mental Health &	• Epigenetics
ac.uk/people/chl		Psychological	Biomarkers
oe-wong)		Sciences, IoPPN	
Dr Marika	Genetics,	School of Basic	Growth
Charalambous	growth and	& Medical	Development, lipids in
(https://www.kcl.	development	Biosciences,	development
ac.uk/research/d		FOLS&M	·
evelopmental-			
epigenetics-			
group)			
Prof Kerrin Small	Omics and	School of Life	 Omics in longitudinal cohorts,
(https://www.kcl.	genetics	Course &	transcriptomics and proteomics
ac.uk/people/ker		Population	 Adipose tissue and skin tissue
<u>rin-small</u>)		Sciences,	Ageing
		FOLS&M	Genetics
Dr Filippo Prischi	Phosphoregulati	School of Basic	Phosphoregulation of
(https://www.kcl.	on of	& Medical	DNA/RNA-binding proteins
ac.uk/people/filip	DNA/RNA-	Biosciences,	
po-prischi)	binding proteins	FOLS&M	
Dr Oliver Witard	Nutrition and	School of Basic	Nutrition and muscle physiology
	muscle	& Medical	Transition and massic projectory
	physiology	Biosciences,	
	. ,	FOLS&M	
		IOLOQIVI	1

Dr Yemisi	Nutrition	School of Life	Nutrition
Latunde-Dada	Natition	Course &	
(https://www.kcl.		Population	Sustainability
ac.uk/people/ye		Sciences,	
misi-latunde-		FOLS&M	
dada)		FOLSQIVI	
Dr Cynthia Yu-	Ophthalmology	School of Life	Personalised therapeutics and
Wai-Man	Opininalinology	Course &	implants in the eye
(https://www.kcl.		Population	implants in the eye
ac.uk/people/cyn		Sciences,	
thia-yu-wai-man)		FOLS&M	
Dr Caroline	Obstetrics	School of Life	Metabolic disease in pregnancy
Ovadia	Obstetrics	Course &	- in particular diabetes, fetal
(https://www.kcl.		Population	cardiology, steatotic liver
ac.uk/people/car		Sciences,	disease, cholestasis
oline-ovadia)		FOLS&M	disease, cholestasis
Dr Mahesh	Reproductive	School of Basic	Reproductive medicine
Sangrithi	medicine	& Medical	Reproductive medicine Infertility
(https://www.kcl.	medicine	Biosciences,	Genetics
ac.uk/research/re		FOLS&M	
productive-		1 OLSQIVI	Genomics
biology-and-			Advanced microscopy
stem-cells-lab)			
Dr Tanya Mensah	Population	School of Life	Population health and
Di Tanya Mensan	health sciences	Course &	environmental science
	ilcardii sciciices	Population	Public Health
		Sciences,	
		FOLS&M	Climate ChangeSocial Care
Dr Mariam	Epidemiology	School of Life	
Molokhia	Epideiiilology	Course &	Long term conditionsCardiovascular disease
(https://www.kcl.		Population	
ac.uk/people/ma		Sciences,	Renal disease
riam-molokhia)		FOLS&M	Familial hypercholesterolaemia
<u>Ham-molokilla</u> j		FOLSQIVI	Digital health
			Prescribing
			Health inequalities
			Research methods - traditional
			and ML approaches
Dr Nicholas	Speech and	School of	Translation of speech and digital
Cummins	digital	Mental Health &	technologies into clinical
(https://kclpure.k	technologies	Psychological	practice
cl.ac.uk/portal/en		Sciences, IoPPN	
/persons/nick.cu			
mmins)	Disital	Calanal a CUC	5: 1: 1:1
Dr Daniel	Digital	School of Life	Digital therapeutics
Leightley	therapeutics	Course &	Data Linkage
(https://www.kcl.		Population	Mental Health
ac.uk/people/dan		Sciences,	Armed Forces Health
<u>iel-leightley</u>)	Heelth Det-	FOLS&M	a Haalth Data Calamas and Al
Dr Lei Lu	Health Data	School of Life	Health Data Science and Al
(https://www.kcl.	Science and AI	Course & Population	
		LUCKLUSTON	

ac.uk/research/di gital-health)		Sciences, FOLS&M	
Dr Grainne McLoughlin (https://www.kcl. ac.uk/people/grai nne-mcloughlin)	Neuro- technology	School of Mental Health & Psychological Sciences, IoPPN	NeurotechnologyEEGWearables
Dr Giouliana Kadra-Scalzo (https://www.kcl. ac.uk/people/dr- giouliana-kadra- scalzo)	Wellbeing and psychological medicine	School of Academic Psychiatry, IOPPN	WellbeingOrganisational developmentHealth tech
Dr Myanna Duncan (https://www.kcl. ac.uk/people/my anna-duncan)	Wellbeing and psychology	School of Mental Health & Psychological Sciences, IoPPN	 Occupational health psychology Work and wellbeing (intervention research) Sedentary behaviour and physical activity

Investigator with existing links to industry

PI	School, Faculty	Industrial link(s)
Professor Miraz	School of Cancer &	Pheon Therapeutics
Rahman	Pharmaceutical	Astra Zeneca
https://www.kcl.ac.u	Sciences, FOLS&M	Emergent Biosolutions
k/people/miraz-		Auris Medical
rahman		LifeArc
		UKHSA
Dr Igor Vivanco	School of Cancer &	Roche
(https://www.kcl.ac.	Pharmaceutical	
uk/people/igor-	Sciences, FOLS&M	
vivanco-1)	,	
Dr Piers Patten	School of Cancer &	Roche
(https://www.kcl.ac.	Pharmaceutical	
uk/research/lympho	Sciences, FOLS&M	
ma-biology)		
Dr Erin Stella Sullivan	School of Life	Medical Nutrition (clinical trials and
(https://kclpure.kcl.a	Course &	product development)
<pre>c.uk/portal/en/perso</pre>	Population	
ns/erin stella.sulliva	Sciences, FOLS&M	
<u>n</u>)		
Dr Oliver Witard	School of Basic &	Nutricia
	Medical	
	Biosciences,	
	FOLS&M	
Dr Anthony Vernon	School of	Bit.Bio
(https://www.kcl.ac.	Neuroscience,	
uk/people/anthony-	IoPPN	
vernon)		
Dr Grainne	School of Mental	Chen Institute
McLoughlin	Health &	
(https://www.kcl.ac.	Psychological	
uk/people/grainne-	Sciences, IoPPN	
mcloughlin	Cobool of	a AbbVia
Dr Anna Andreou	School of	AbbVie St.
(https://www.heada	Neuroscience,	Pfizer
che-research.com/)	IoPPN School of	a Namanaya Tashurala
Dr Gerald Finnerty	School of	Nanopore Technology
(https://geraldfinner	Neuroscience, IoPPN	
ty.wixsite.com/finner tylab)	IUFFIN	
Dr Bahijja Raimi-	School of Cancer &	BASF
Abraham	Pharmaceutical	
(https://www.kcl.ac.	Sciences, FOLS&M	Daye
uk/people/bahijja-	Juletices, FULJQIVI	
<u>raimi-abraham</u>)		

D. M. H.	Calcada CBarda O	
Dr Marika	School of Basic &	Merck
Charalambous	Medical	
(https://www.kcl.ac.	Biosciences,	
uk/research/develop	FOLS&M	
mental-epigenetics-		
group)		
Dr Giouliana Kadra-	School of Academic	 Wellbeing programmes evaluation
Scalzo	Psychiatry, IoPPN	
(https://www.kcl.ac.		
uk/people/dr-		
giouliana-kadra-		
scalzo)		
Dr Paul Stokes	School of Academic	Several pharmacological industry
(https://www.kcl.ac.	Psychiatry, IoPPN	collaborators to secure funding and
uk/people/paul-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	lead novel experimental medicine
stokes)		studies in mental health using
<u>stokes</u> j		_
Dr. Alan G. Barnsay	School of Cancer &	neuroimaging
Dr. Alan G. Ramsay		Bristol-Myers Squibb
(https://www.kcl.ac.	Pharmaceutical	
uk/people/dr-alan-	Sciences, FOLS&M	
<u>ramsay</u>)		
Dr Caroline Ovadia	School of Life	Mirum Pharmaceuticals
(https://www.kcl.ac.	Course &	
uk/people/caroline-	Population	
<u>ovadia</u>)	Sciences, FOLS&M	
Dr Jonathan	School of Mental	Pharmaceutical
Coleman	Health &	
(https://www.kcl.ac.	Psychological	
uk/people/jonathan-	Sciences, IoPPN	
coleman)		
Dr Graeme Hewitt	School of Cancer &	AstraZeneca (drug safety)
(https://www.kcl.ac.	Pharmaceutical	, , , , , , , , , , , , , , , , , , , ,
uk/people/graeme-	Sciences, FOLS&M	
hewitt)	,	
Prof Ben Forbes	School of Cancer &	AstraZeneca
(https://www.kcl.ac.	Pharmaceutical	Novartis
uk/people/ben-	Sciences, FOLS&M	Biotherapy Services
forbes)	Solcifices, I OLOGIVI	
	Cabaalaf	• Intertek
Prof Sandrine Thuret	School of	• MSD
(https://www.thuretl	Neuroscience,	
ab.com/)	IoPPN	
Dr Alfredo Iacoangeli	School of Mental	• MSD
(https://www.kcl.ac.	Health &	Precision Life
uk/people/alfredo-	Psychological	LifeArc
<u>iacoangeli</u>)	Sciences, IoPPN	Atex
		Takeda
		• GSK
Dr Franziska Denk	School of	GSK (consulting)
(https://www.franzis	Neuroscience,	Ono Pharmaceuticals
kadenk.com)	IoPPN	
<u>Raderinicom</u>	.5	Consortium containing AZ & Eli Lily

		a Collectrican (Advisory Board)
Drof Codorice C	Cobool of	Cellectricon (Advisory Board) CSK Imaging
Prof Federico E	School of	GSK Imaging
Turkheimer	Neuroscience,	GE Healthcare
(https://www.kcl.ac.	IoPPN	OLEA Medical
uk/people/federico-		Bayer Imaging
turkheimer)		
Prof Mieke Van	School of Cancer &	Bayer (Consultant)
Hemelrijck	Pharmaceutical	Gilead (Consultant)
(https://www.kcl.ac.	Sciences, FOLS&M	
uk/research/tour)		
Prof Simon Ameer-	School of Cancer &	Daiicchi Sankyo
Beg	Pharmaceutical	
(https://www.kcl.ac.	Sciences, FOLS&M	
uk/people/simon-		
ameer-beg)		
Dr Po-Wah So	School of	Perspectum Diagnostics
(https://kclpure.kcl.a	Neuroscience,	• AMRA
<pre>c.uk/portal/en/perso</pre>	IoPPN	
ns/po-wah.so)		
Prof Mitul Mehta	School of	SEEKACURE
(https://www.kcl.ac.	Neuroscience,	Lundbeck
uk/people/mitul-	IoPPN	SoseiHeptares
mehta)		Boeringher Ingelheim
Dr Mariam Molokhia	School of Life	SanaBioTech
(https://www.kcl.ac.	Course &	MicroLife
uk/people/mariam-	Population	AT Technologies
molokhia)	Sciences, FOLS&M	Various digital health companies
Dr Aleksej Zelezniak	School of Basic &	Microsoft Research
(http://synthbiolab.c	Medical	
om/)	Biosciences,	
<u> </u>	FOLS&M	
Dr Myanna Duncan	School of Mental	Deloitte (LISS DTP funding)
(https://www.kcl.ac.	Health &	Sciolate (2.33 DTI Turiumg)
uk/people/myanna-	Psychological	
duncan)	Sciences, IoPPN	
Dr Ricardo Twumasi	School of Academic	Deloitte (Globale Virtual Teams)
(https://kclpure.kcl.a	Psychiatry, IoPPN	- Deloitte (Globale VII tual Tealiis)
c.uk/portal/en/perso	1 Sycillati y, IOI I IV	
ns/ricardo.twumasi)		
Dr Vishwesh Kulkarni	School of	Tata Consultancy Services
(https://www.linkedi	Biomedical	(development of digital twins)
n.com/in/vishwesh-	Engineering &	
k-6836a79/)	Imaging Sciences,	 Larsen & Toubro (development of digital twins)
K 0030a73[]	FOLS&M	aigitai twiiis <i>j</i>
Dr Nicholas	School of Mental	Thymia (consultant)
Cummins	Health &	
(https://kclpure.kcl.a	Psychological	
c.uk/portal/en/perso	Sciences, IoPPN	
ns/nick.cummins)	Julences, IUPPIN	
Dr Ozlem Ipek	School of	Prain Products (NAPC iCASE proingt)
(https://www.kcl.ac.	Biomedical	Brain Products (MRC iCASE project)
(IIII.)5.//WWW.KCI.dC.	Diomedical	

uk/people/ozlem- ipek)	Engineering & Imaging Sciences, FOLS&M	
Dr Matthew Stroud (www.stroudlab.com)	School of Cardiovascular and Metabolic Medicine & Sciences, FOLS&M	Microscopy (iCASE sponsorship)
Dr Ulrike Hammerbeck (https://www.kcl.ac. uk/people/ulrike- hammerbeck)	School of Basic & Medical Biosciences, FOLS&M	Brainomix (MRC DTP iCASE)
Dr Ciro Chiappini (https://www.chiapp inilab.com)	Centre for Craniofacial & Regenerative Biology, FoDOCS	 MicrofluidX - developing microfluidics for CAR-T manufacturing Unilever - Spatial Biology
Prof Guy Carpenter (https://www.kcl.ac.uk/people/guy-carpenter)	Oral biology	• Haleon

Prospective links to industry

PI	School, Faculty	Industrial link(s)
Dr Paul Caton	School of	Partners working on diabetes.
(https://www.kcl.ac.	Cardiovascular and	For developing novel NAD
uk/people/paul-	Metabolic	modulating compounds for
<u>caton</u>)	Medicine &	treatment of type 1 and type 2
	Sciences, FOLS&M	diabetes, and NAFLD/NASH).
Dr Igor Vivanco	School of Cancer &	Partners working with oncogenes.
(https://www.kcl.ac.	Pharmaceutical	 For exploring the signalling
uk/people/igor-	Sciences, FOLS&M	fingerprint of oncogene
vivanco-1)		superactivation to design
		therapeutic strategies based on
		pharmacological mimicry of
		oncogene-overdose cell-killing
		signals).
Dr Alan G. Ramsay	School of Cancer &	Pharma partner working on NSCLC.
(https://www.kcl.ac.	Pharmaceutical	Interested in the crosstalk
uk/people/dr-alan-	Sciences, FOLS&M	between tumour cells and
<u>ramsay</u>)		cancer-associated lymph node
		fibroblasts (LN CAFs) and their
		functional interactions with T
		cells and dendritic cells (DCs)
		likely regulates immunotherapy
		response/resistance. Studies will
		include the study of excision
		tdLNs from patients across NSCLC
		stages (Guy's is a major lung
		cancer Centre of Excellence) and
		will help identify new targets for
		research and therapeutic
		intervention (e.g. bispecific
		antibody design).
Dr Robbert	School of Cancer &	Partners working on lymphoma.
Hoogeboom	Pharmaceutical	To develop a differentiation
(https://www.kcl.ac.	Sciences, FOLS&M	therapy for lymphoma - have
uk/research/lympho		recently uncovered a druggable
ma-signalling)		protein that inhibits terminal
		differentiation of B cell cancer
		cells.
Dr Matthias Krause	School of Basic &	Partners interested in cancer
(https://cytoskeleton	Medical	therapies.
.wixsite.com/krausel	Biosciences,	Interested in exploring the
<u>ab</u>)	FOLS&M	fundamental mechanisms
		controlling endocytic vesicle
		trafficking and cell migration,
		proliferation and polarity to
		define novel biomarkers and drug
		targets.

Dr Bahijja Raimi- Abraham (https://www.kcl.ac. uk/people/bahijja- raimi-abraham)	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Partners interested in Space Medicine and CRISPR in infectious diseases.
Dr Caroline Ovadia (https://www.kcl.ac. uk/people/caroline- ovadia)	School of Life Course & Population Sciences, FOLS&M	Partners interested in the use of continuous monitors of maternal health on the fetal impacts - combining fetal cardiac monitoring with e.g. markers of diabetes control.
Dr Mahesh Sangrithi (https://www.kcl.ac. uk/research/reprodu ctive-biology-and- stem-cells-lab)	School of Basic & Medical Biosciences, FOLS&M	 Partners interested in reproductive medicine and oocyte / sperm biology. Have identified transcription factors and epigenetic markers, that function in a cell-state specific and sexually dimorphic manner and now wish to develop more functional assessments - e.g. using advanced microscopy, genomics and developing drug targets.
Prof Luigi Gnudi (https://www.kcl.ac. uk/people/luigi- gnudi)	School of Cardiovascular and Metabolic Medicine & Sciences, FOLS&M	 Partner working on vascular health. For project working on defining the mechanism of action of the angiopoietin1-2/tie2-1 signalling system – have identified some molecular pathways that could modulate the system towards a more stable vasculature.
Dr Aleksej Zelezniak (http://synthbiolab.com/)	School of Basic & Medical Biosciences, FOLS&M	 Partners working on plastic biodegradation. Partners interested in protein expression in non-conventional organisms.
Dr Vishwesh Kulkarni (https://www.linkedi n.com/in/vishwesh- k-6836a79/)	School of Biomedical Engineering & Imaging Sciences, FOLS&M	 Partners in the space of systems and synthetic biology based solutions for (i) monitoring and eliminating pollutants and (ii) converting residential and industrial waste into high-value products.
Prof James Mason (https://www.kcl.ac. uk/people/james- mason)	School of Cancer & Pharmaceutical Sciences, FOLS&M	 Partner working on antimicrobials. To take a patented antimicrobial peptide with demonstrated in vivo therapeutic efficacy into indications for which it is best suited. Also has two possible classes of lipid/amphiphile antibiotics/potentiators which are at an earlier stage of development but have shown

		efficacy in invertebrate infection models.
Prof Ben Forbes	School of Cancer &	Partners looking for enabling
(https://www.kcl.ac.	Pharmaceutical	formulations or devices to translate
uk/people/ben-	Sciences, FOLS&M	novel therapeutics through preclinical
forbes)	Sciences, i OLSCIVI	, , , , , , , , , , , , , , , , , , , ,
	Calanal of	development into humans.
Dr Franziska Denk	School of	Partners looking for low-throughput
(https://www.franzis	Neuroscience,	compound screening methods.
<u>kadenk.com)</u>	IoPPN	Have set up human stem-cell
		derived gut organoid models with
		either enteric neurons, sensory
		neurons or vagal efferents that
		might be a great model to use in
		low-throughput compound
		screening processes.
Dr Anna Andreou	School of	Partner with access to animal models.
(https://www.heada	Neuroscience,	Specifically for the development
che-research.com/)	IoPPN	of chronic animal models of
<u>che rescarenteoni, j</u>	101111	
		migraine/cluster headache and
		facial pain.
		Tech/PharmaTech partner
		For the development of an app to
		aid diagnosis and treatment
		pathway in patients.
		 Partner working on antinociceptive
		treatments.
		 For support to take a first-in
		human antinociceptive treatment
		for facial pain and headaches.
Prof Corinne Houart	School of	Partners interested in developing
(https://devneuro.or	Neuroscience,	therapies for neurodevelopment
g/cdn/)	IoPPN	disorders.
,		Have discovered a protein formed
		by cleavage that is mis-expressed
		in neurodevelopment disorders
		(primarily Foxg1 syndrome but
		, , ,
		also some form of autism),
		developed tools to prevent this
		expression, and showed that in
		animal models this improves
		pathology and are now looking to
		develop the therapeutic avenues.
Dr Richard Eva	School of	Partners interested in developing
(https://www.kcl.ac.	Neuroscience,	gene therapies to treat glaucoma,
uk/people/richard-	IoPPN	spinal cord injury, and wider CNS axon
<u>eva</u>)		degenerative disease.
Prof Andre Strydom	School of Academic	Partners interested in researching
(https://www.kcl.ac.	Psychiatry, IoPPN	Alzheimer's disease in Down
uk/people/professor		syndrome.
-andre-strydom)		

Prof Sandrine Thuret (https://www.thuretl ab.com/) Prof Benedikt Berninger (https://www.kcl.ac. uk/people/benedikt- berninger)	School of Neuroscience, IOPPN School of Neuroscience, IOPPN	 Partner interested in predictive biomarkers of Alzheimer's disease. Partner interested in biomarkers for depression treatment stratification. Partner working on validating in new neurogeroprotectors. Partner interested in developing improved human (ES cell -based) models to screen for optimal reprogramming factor combinations to generate clinically relevant neurons. Partners interested in developing improved strategies for delivery of reprogramming factors in vivo (e.g.,
Dr Angela Hodges (https://kclpure.kcl.ac .uk/portal/en/perso ns/angela.k.hodges)	School of Academic Psychiatry, IoPPN	 Partners developing drugs for Alzheimer's and Epilepsy. Are developing cell models and markers linked to these conditions that can be used for drug screening, testing candidate drugs. Partners running research studies on people. Have identified high genetic risk research participants who could be invited for relevant research studies.
Dr Alfredo Iacoangeli (https://www.kcl.ac. uk/people/alfredo- iacoangeli)	School of Mental Health & Psychological Sciences, IoPPN	Partners working on ALS-FTD Have biological information and experience using a particular form of machine learning, latent class cluster analysis, that can be used to refine the subgrouping of ALS further and extend it to the whole ALS-FTD spectrum. The new subtypes of ALS-FTD will have potential for personalized medicine approaches that can be beneficial for all people with ALS or FTD.
Dr Sherif Elsharkawy (https://www.kcl.ac. uk/people/sherif- elsharkawy)	Centre for Oral, Clinical & Translational Sciences, FoDOCS	 Partners working on tissue regeneration, neurodegenerative disorders or adhesive medical devices. Currently work at the interface between basic and translational sciences, focusing on novel tools to enhance adhesion of medical devices, protein-based approaches for hard and soft

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		tissue regeneration, and
		mechanisms for
		neurodegenerative disorders.
Dr Lei Lu	School of Life	 Partners working with wearable
(https://www.kcl.ac.	Course &	devices for home care.
uk/research/digital-	Population	
health)	Sciences, FOLS&M	
Dr Paul Stokes	School of Academic	Partners interested in mood disorders,
(https://www.kcl.ac.	Psychiatry, IoPPN	psychopharmacology,
uk/people/paul-	1 Sycillati y, 1011 14	pharmacological functional
stokes)		
· · · · · · · · · · · · · · · · · · ·	Calcada CA and and	neuroimaging and clinical trials
Dr Gonzalo Salazar	School of Academic	Partners interested in carrying out the
de Pablo	Psychiatry, IoPPN	first study on virtual reality for
(https://www.kcl.ac.		adolescents with bipolar disorder.
uk/people/gonzalo-		
<u>salazar-de-pablo</u>)		
Prof Daniel Stahl	School of Mental	 Partners interested in applying risk
(https://kclpure.kcl.a	Health &	prediction models.
c.uk/portal/en/perso	Psychological	·
ns/daniel.r.stahl)	Sciences, IoPPN	
Dr Mariam Molokhia	School of Life	Partners interested in developing and
(https://www.kcl.ac.	Course &	evaluating translational medicine
uk/people/mariam-	Population	strategies for risk prediction, with
molokhia)	Sciences, FOLS&M	tailored strategies for stratified
<u>IIIOIOKIIIa</u>)	Sciences, FOLSKIVI	
		medicine
		Specific interest in primary care
		research, complex traits
		multimorbidity,
		pharmacoepidemiology,
		pharmacogenomics, and ethnic
		differences in disease risk.
Dr Erica Cini	School of Academic	 Partners interested in cultural
(https://www.resear	Psychiatry, IoPPN	variations of ED presentations.
chgate.net/profile/Er		Partners involved in intensive
ica-Cini)		outpatient programmes.
Prof Albert Ferro	School of	Partners working on cardiovascular
(https://www.kcl.ac.	Cardiovascular and	diseases (clinical).
	Metabolic	·
uk/people/albert-		Have identified a panel of 21
<u>ferro-1</u>)	Medicine &	plasma biomarkers which are
	Sciences, FOLS&M	highly predictive of
		atherosclerotic disease, with high
		sensitivity and specificity
		(superior to the current clinically
		used gold standard) and wish to
		develop this panel into a clinically
		useful test that can be applied
		more cost effectively and at scale
		for more general application in
		general practice as well as in
		cardiovascular risk / prevention
		clinics.
		Cilliics.

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Dr Lingfang Zeng (https://kclpure.kcl.a c.uk/portal/en/perso ns/lingfang.zeng)	School of Cardiovascular and Metabolic Medicine & Sciences, FOLS&M	 Partners working on cardiovascular diseases and obesity. Have discovered a 7-amino acid peptide from a short open reading frame of Hdac7 gene that can function as a phosphate carrier in different signal transduction pathways and exert diverse functions including stem cell self-renewal, stem cell differentiation toward endothelial cell lineage, regulating AMPK phosphorylation and related glucose metabolism, reduction of blood glucose level in diabetic mice, inhibiting high fat dietinduced obesity in rodent models via down-regulating ApoE expression in liver cells and inhibiting adipocyte differentiation, protecting cardiomyocyte against oxidative stress-induced cell apoptosis and cell death, enhancing skin wound healing, inhibiting cancer cell proliferation, suppression bacteria growth.
Dr Ozlem Ipek	School of Biomedical	Partners looking for metabolic and
(https://www.kcl.ac. uk/people/ozlem-	Engineering &	structural imaging towards early diagnosis and treatment follow-up
<u>ipek</u>)	Imaging Sciences,	purposes.
	FOLS&M	 Have in depth expertise on
		designing and manufacturing imaging hardware specifically for magnetic resonance imaging,
		electrocardiography and other
		biomedical imaging modalities for
		human and rodent studies.
Dr Ciro Chiappini	Centre for	Partners working on topical gene
(https://www.chiapp	Craniofacial &	therapy/gene editing for regenerative
<u>inilab.com</u>)	Regenerative	medicine.
Dr Erin Stella Sullivan	Biology, FoDOCS School of Life	Partners interested in the co-
(https://kclpure.kcl.a	Course &	development of novel medical
c.uk/portal/en/perso	Population	nutrition products for use in oncology
ns/erin stella.sulliva	Sciences, FOLS&M	& palliative care.
<u>n</u>)		Partners exploring potential avenues
		for Al-assisted Body Composition
		analysis using routinely acquired
		medical imaging as well as
		standardisation and optimisation of

		point of care tools which do not expose patients to ionising radiation,
		e.g. ultrasound, multi-segment
		bioelectrical impedance analysis etc.
Dr Oliver Witard	School of Basic & Medical Biosciences, FOLS&M	Partners interested in nutritional interventions to offset skeletal muscle loss in cancer cachexia patients.
Dr Yemisi Latunde-	School of Life	Partners interested in sustainable
Dada	Course &	protein alternatives to meat
(https://www.kcl.ac.	Population	 Meat-alternative sources of
uk/people/yemisi-	Sciences, FOLS&M	protein such as the consumption
<u>latunde-dada</u>)		microalgae pose less burden on
		environmental resources for their
		production. Microalgae are
		potentially sustainable novel food
		sources and can be good sources
		of iron and zinc in the diet
		instead of meat. The primary
		objective is to use in vitro and in
		vivo methods to analyse minerals
		content and iron bioavailability
		and the mechanisms of
		absorption in different types of
		microalgae used as food. Further
		analysis of the mechanisms of
		iron absorption will be
		investigated in Caco-2 cells.
Prof Federico E	School of	Industries involved in software
Turkheimer	Neuroscience,	development for data collection,
(https://www.kcl.ac.	IoPPN	storage, analysis and reporting.
uk/people/federico-		
turkheimer)	Colored a Chic	
Dr Daniel Leightley	School of Life	Partners in the area of mental health and district health
(https://www.kcl.ac.	Course &	and digital health.
uk/people/daniel-	Population	For several projects in the area of
<u>leightley</u>)	Sciences, FOLS&M	alcohol use, PTSD and gambling disorders.
Dr Myanna Duncan	School of Mental	Partners interested in researching the
(https://www.kcl.ac.	Health &	construction industry and the help-
uk/people/myanna-	Psychological	seeking intentions of its workers,
<u>duncan</u>)	Sciences, IoPPN	specially supporting the mental health of these employees
		or these employees