

ProteoTRANS



Finnish Red Cross
Blood Service

PROTEOTRANS

EU application in preparation

Jukka Partanen 2016-08-18



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Proposal full title: Omics/Proteome-based donor-recipient stratification to allocate for kidney transplantation



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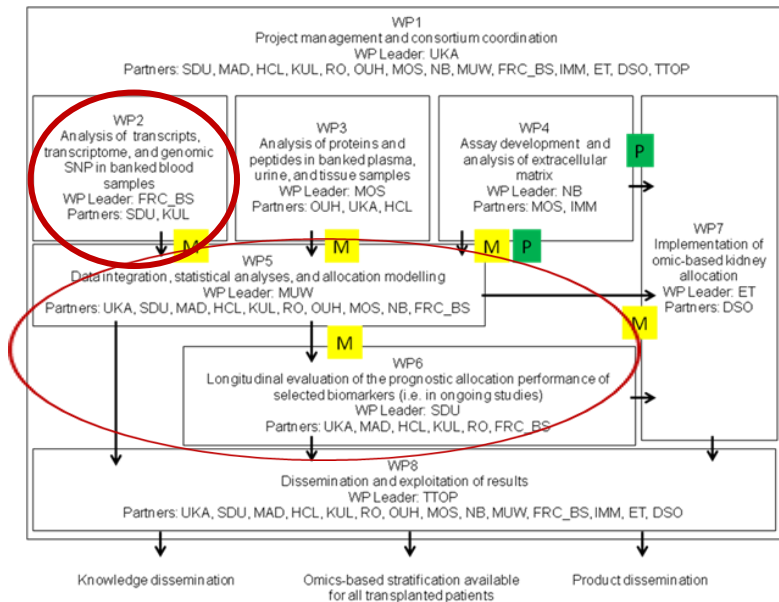
- **Proposal acronym:**
- PROTEOTRANS
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- **Type of funding scheme:** Research and Innovation Action
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- **Work programme topics addressed:** SC1-PM-02-2017; deadline 10/2016
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- **Name of the co-ordinating person:**
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- List of participants:

No.	Participant Organization name	Country	Coordinator
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2	University of Southern Denmark (SDU)	Denmark	Martin Tepel (M)
3	Hospital Universitario La Paz (MAD)	Spain	Rafael Selgas (M)
4	Hospices Civils de Lyon (HCL)	France	Olivier Thauinat (M)
5	Katholieke Universiteit Leuven (KUL)	Belgium	Maarten Naesens
6	Institutul Clinic Fundeni (RO)	Romania	Ionel Sinescu (M)
7	Odense University Hospital (OUH)	Denmark	Hans Christian Beck (M), Lars Melholt Rasmussen(M)
8	Mosaïques Diagnostic GmbH (MOS)	Germany	Jochen Metzger (M), Harald Mischak (M)
9	Nordic Bioscience A/S (NB)	Denmark	Federica Genovese (F) Morten Karsdal (M)
10	Medical University Vienna (MUW)	Austria	Daniela Dunker (F), Georg Heinze (M)
11	Finnish Red Cross Blood Service (FRC BS)	Finland	Jukka Partanen (M), Jouni Lauronen (M)
12	Immunodiagnostik (IMM)	Germany	Susanne Duncker (F), Franz Paul Armbruster (M)
13	Eurotransplant (ET)	Netherlands	Undine Samuel (F), Serge Vogelaar (M)
14	Deutsche Stiftung Organtransplantation (DSO)	Germany	Axel Rahmel (M), Marie Lingemann (F)
15	topstart BV (TTOP)	Netherlands	Karin Bosch-Elberse (F)

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WP2 Genomic analysis

- **Objectives:**
 - ...to study gene expression levels – “transcripts” - and genomic variation – “SNPs” - that forecast allograft function in kidney transplant recipients.
- **Task 2.1.** consists of full RNA sequencing (RNA-Seq) from blood and biopsy samples.
- **Task 2.2.** consists of determination of genomic variation, SNPs, in transplantation recipients and donors. Both GWAS and targeted gene analyses.

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Samples from Helsinki, Finland

- All kidney tx's are done in one single centre (Helsinki University Hospital) and all histocompatibility testings in one lab (FRC BS)
- The major study set, kidney tx done between 6/2015 - 7/2017:
 - expected number of tx = 300
 - HLA A, B, C, DRB1, DQB1 (intermediate resolution) typed; anti-HLA antibody status; x-match
 - Samples:
 - Donors: DNA & living spleen cells from all ; serum/plasma only from coming tx
 - Patients: DNA, serum
 - Clinical follow-up and data available (during project period: acute, 1 y & 3 y outcome)
 - Excluded: all related donors and donors outside Finland
- Confirmatory, retro set, tx done between 1/2010 - 6/2015:
 - estimated number of tx: 800 tx
 - A,B, C, DRB1, DQB1 (low resolution) typed; anti-HLA antibody status; x-match
 - Samples:
 - Donors: DNA & living spleen cells (of most samples)
 - Patients: DNA, serum.
 - Clinical follow-up (during project period) 2 to over 5 years