

# CICLO 34 – BORSE AGGIUNTIVE

## COGNITIVE AND BRAIN SCIENCES

### FISICA

### INFORMATICA E TELECOMUNICAZIONI

### INGEGNERIA CIVILE, AMBIENTALE E MECCANICA

### MATERIALI, MECCATRONICA E INGEGNERIA DEI SISTEMI

### SCIENZE BIOMOLECOLARI

### DEVELOPMENT ECONOMICS AND LOCAL SYSTEMS

## **COGNITIVE AND BRAIN SCIENCES**

- 1) n. **1 borsa di studio aggiuntiva** finanziata dalla **Fondazione Bruno Kessler** relativa alla tematica "*Progettazione di sistemi embedded per lo studio dei correlati neurali delle funzioni percettive e cognitive di base nei neonati*".
- 2) n. **1 borsa di studio aggiuntiva** finanziata dall'**IRCCS "Centro San Giovanni di Dio – Fatebenefratelli"** relativa alla tematica "*Connettività cerebrale anatomica ed effettiva nella malattia di Alzheimer: Un approccio multimodale di TMS-EEG e MRI*".

## **FISICA**

- 1) **Borsa O** - Development of innovative micro- and nano detection systems for dosimetry applications (pubblicata il 29/08/2018)

## **INFORMATICA E TELECOMUNICAZIONI / Information and Communication Technology**

- 1) **Borsa B5** (bando 1) - Vehicle to Everything: opportunities and constraints in leading the automotive world to 5G (EIT-FBK-CRF)
- 2) **Borsa D8** (bando 1) - Fusion of remote sensing and citizen science information for geospatial products (Fondazione Bruno Kessler)
- 3) **Borsa C4** (bando 1) - Automated verification of critical systems (Fondazione Bruno Kessler)
- 4) **Borsa A7** (bando 2) - Domain adaptation for people detection, re-identification and pose estimation (EIT Digital, Osram and DISI) – (aggiuntiva, pubblicata il 20.08.2018)

## **INGEGNERIA CIVILE, AMBIENTALE E MECCANICA / Civil, Environmental and Mechanical Engineering**

- 1) **Assegno A10** - Linkages between river habitat dynamics and channel morpho-dynamics at mesoscale (EUROFLOW H2020, **assegno di ricerca** - pubblicato il 23.07.2018)
- 2) **Borsa A11** - Meteorological observations, high-resolution modelling and analysis of river-floodplain dynamics to support agricultural practices in tropical environments (Mandacaru Onlus) - pubblicata il 08.08.2018
- 3) **Borsa A12** - Coupled modeling of hydrological fluxes, hydropower generation and electricity prices in a changing climate (University of Trento, Progetto Horizon2020-Eocoe2) – pubblicata il 10.08.2018

## **MATERIALI, MECCATRONICA E INGEGNERIA DEI SISTEMI / Materials, Mechatronics and Systems Engineering**

- 1) **Borsa B4:** "Sustainable power generation and electric mobility in future distribution systems" (finanziata da EURAC Research, Bolzano - pubblicata il 14.06.2018)
- 2) **Borsa B5:** "Macchine elettriche alimentate con batterie alta tensione in corrente continua e loro controllo elettronico di potenza per propulsione marina" (finanziata da ZF Padova srl - pubblicata il 18.06.2018)

## **SCIENZE BIOMOLECOLARI / Biomolecular Sciences**

- 1) **Borsa T** - Genome editing for liver metabolic diseases – borsa finanziata da ICGEB (posto e borsa aggiuntivi pubblicati il 30/07/2018)

- 2) **Borsa U** - Determinanti sinergiche di suscettibilità ai tumori (dr. Alessandro Romanel – pubblicata 31/07/2018)
- 3) **Borsa V** - Intercellular miscommunication in the brain and periphery: role of extracellular vesicle cargos in Amyotrophic Lateral (dott.ssa Manuela Basso – pubblicata 31/07/2018)
- 4) **Borsa W** - Metagenomica comparativa a livello di ceppo (prof. Nicola Segata – pubblicata 31/07/2018) - con il supporto finanziario di EMBL
- 5) **Borsa X** - Editing delle mutazioni associate alla sindrome di Cornelia de Lange tramite editor di basi CRISPR/Cas9 (posto e borsa aggiuntivi pubblicati il 03/09/2018)
- 6) **Borsa Y** - Ripristino dell'espressione fisiologica del gene fratazina nella Atassia di Friedreich attraverso stimolazione della traduzione realizzata con l'editing genomico (posto e borsa aggiuntivi pubblicati il 03/09/2018)
- 7) **Borsa Z** - Studio dei meccanismi molecolari responsabili della trasformazione fenotipica da adenocarcinoma a tumore prostatico neuroendocrino (posto e borsa aggiuntivi pubblicati il 03/09/2018)

#### **DEVELOPMENT ECONOMICS AND LOCAL SYSTEMS**

- 1) n. **1 borsa aggiuntiva** co-finanziata dall'Università degli Studi di Trento e dal Dipartimento di Economia e Management.

# ADDITIONAL GRANTS – 34<sup>TH</sup> CYCLE

## COGNITIVE AND BRAIN SCIENCES

### PHYSICS

### INFORMATION AND COMMUNICATION TECHNOLOGY

### CIVIL, ENVIRONMENTAL AND MECHANICAL ENGINEERING

### MATERIALS, MECHATRONICS AND SYSTEMS ENGINEERING

### BIOMOLECULAR SCIENCES

### DEVELOPMENT ECONOMICS AND LOCAL SYSTEMS

#### **COGNITIVE AND BRAIN SCIENCES**

- 1) n. **1 additional grant** financed by the **Fondazione Bruno Kessler** on the topic "*Embedded systems design for investigating the neural substrates of core perceptual and cognitive functions in infants*";
- 2) n. **1 additional grant** financed by the **IRCCS "Centro San Giovanni di Dio – Fatebenefratelli** on the topic "*Effective and structural brain connectivity in Alzheimer's disease: a multimodal approach of TMS-EEG and MRI*".

#### **PHYSICS**

- 1) **Grant O** - Development of innovative micro- and nano detection systems for dosimetry applications (published on August 29<sup>th</sup> 2018)

#### **INFORMATION AND COMMUNICATION TECHNOLOGY**

- 1) **Grant B5** (I Call) - Vehicle to Everything: opportunities and constraints in leading the automotive world to 5G (EIT-FBK-CRF)
- 2) **Grant D8** (I Call) - Fusion of remote sensing and citizen science information for geospatial products (Fondazione Bruno Kessler)
- 3) **Grant C4** (I Call) - Automated verification of critical systems (Fondazione Bruno Kessler)
- 4) **Grant A7** (II Call) - Domain adaptation for people detection, re-identification and pose estimation (EIT Digital, Osram and DISI) – (additional, published on August 20<sup>th</sup> 2018)

#### **CIVIL, ENVIRONMENTAL AND MECHANICAL ENGINEERING**

- 1) **Research fellowship A10** - Linkages between river habitat dynamics and channel morpho-dynamics at mesoscale (EUROFLOW H2020, **research fellowship** – published on July 23<sup>rd</sup> 2018)
- 2) **Grant A11** - Meteorological observations, high-resolution modelling and analysis of river-floodplain dynamics to support agricultural practices in tropical environments (Mandacarù Onlus) – published on August 8<sup>th</sup> 2018
- 3) **Grant A12** - Coupled modeling of hydrological fluxes, hydropower generation and electricity prices in a changing climate (University of Trento, Project Horizon2020-Eocoe2) – published on August 10<sup>th</sup> 2018

#### **MATERIALS, MECHATRONICS AND SYSTEMS ENGINEERING**

- 1) **Grant B4**: "Sustainable power generation and electric mobility in future distribution systems" (financed by EURAC Research, Bolzano - published on June 14<sup>th</sup> 2018)
- 2) **Grant B5**: "Electronic Power Control of Electric Motors Powered by High Voltage DC Batteries for Marine Propulsion" (financed by ZF Padova srl - published on June 18<sup>th</sup> 2018)

#### **BIOMOLECULAR SCIENCES**

- 1) **Grant T** - Genome editing for liver metabolic diseases – grant financed by ICGEB (additional position and grant published on July 30<sup>th</sup> 2018)
- 2) **Grant U** - Synergic determinants of cancer susceptibility (dr. Alessandro Romanel – published on July 31<sup>st</sup> 2018)

- 3) **Grant V** - Intercellular miscommunication in the brain and periphery: role of extracellular vesicle cargos in Amyotrophic Lateral (dott.ssa Manuela Basso – published on July 31<sup>st</sup> 2018)
- 4) **Grant W** – Strain level comparative metagenomics (prof. Nicola Segata published on July 31<sup>st</sup> 2018) - with the financial support of EMBL
- 5) **Grant X** - Editing of Cornelia de Lange syndrome-associated mutations by CRISPR/Cas9-base editors (additional position and grant published on September 3<sup>rd</sup> 2018)
- 6) **Grant Y** - Rescuing physiological expression of the frataxin gene in Friedreich Ataxia through genome editing induced translational enhancement (additional position and grant published on September 3<sup>rd</sup> 2018)
- 7) **Grant Z** - Data driven study of the molecular mechanisms involved in the phenotype switching to neuroendocrine prostate cancer from adenocarcinoma (additional position and grant published by September 3<sup>rd</sup> 2018)

#### **DEVELOPMENT ECONOMICS AND LOCAL SYSTEMS**

- 1) n. **1 Additional grant** co-financed by University of Trento and by Department of Economics and Management.