



## Giornate delle Neuroscienze

Dipartimento di Neuroscienze "Rita Levi Montalcini"  
Palazzo degli Istituti Anatomici | corso M. d'Azeglio 52, Torino

27 > 29 giugno 2018



## Neuroscience in Turin

A network of Institutes gathered in  
an interdepartmental center  
**NEUROSCIENCE INSTITUTE OF TURIN**



## NIT



- Neuroscience Institute Cavalieri Ottolenghi
- Department of Neuroscience
  - Neurology
  - Psychiatry
  - Anatomy
  - Physiology
- Department of Psychology
- Center for Brain Imaging 3T
- Koelliker Hospital Brain Imaging
- Members also in
  - Istituto Zooprofilattico
  - Dept. Veterinary Medicine
  - Molecular Biology Center
  - Dept. Life Sci Biol



## Center for Brain Imaging c/o Molinette Hospital

- MRI3T
- fMRI
- Tractography
- Voxel-based morphometry
- Resting state
- TDCS
- TMS




## NICO – Neuroscience Institute Cavalieri Ottolenghi

- Basic and translational neuroscience
- 9 scientific teams
  - Adult neurogenesis
  - Brain Development and Disease
  - Clinical Neurobiology
  - Embryonic Neurogenesis
  - Neuroendocrinology
  - Nerve Regeneration
  - Neurophysiology of Neurodegenerative Diseases
  - Neuropsychopharmacology
  - Physiopathology of Neurostem cells
- 70 researchers
- 60 indexed papers/year



## Experimental models of diseases studied at NICO

- Multiple Sclerosis (patients and models)
- Traumatic Brain Injury / Spinal Cord Injury
- Motoneuron diseases (ALS, SMA)
- Alzheimer's, Huntington's and Parkinson's diseases
- Stroke
- Glaucoma
- Nerve injury / neuropathic pain



## Department of Neuroscience: clinics

- Neurology
- Psychiatry
- Neurosurgery
- Neuroradiology
- Clinical Psychology



## Department of Neuroscience: neurobiology



### Anatomy

- Neuroanatomy lab
- Cesare Lombroso museum
- Anatomy Museum

### Physiology

- Behavioral Physiology
- Neurophysiology of placebo
- Calcium channels
- Integrative Physiology



## Center for Brain Imaging c/o Koelliker Hospital

- MRI1.5T
- fMRI
- Tractography
- Voxel-based morphometry
- Resting state
- TDCS
- TMS



## Department of Psychology

### Research Groups

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#### Research Groups

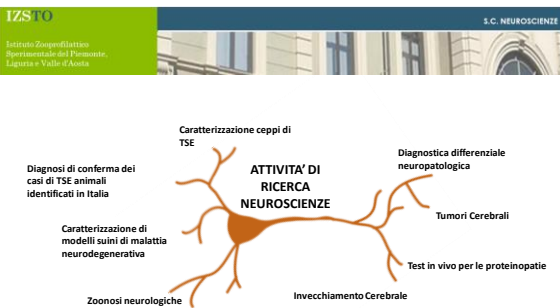
- [The narrative approach in psychotherapy: critical Themes and Need to Belong](#)
- [CMoN Group \(Cognition Motion and Neuroscience Group\)](#)
- [Brain Imaging and plasticity](#)
- [Functional Neuroimaging and Neural Complex Systems](#)
- [Neuropsychology of cognitive impairment and central nervous system degenerative diseases](#)
- [Political Psychology](#)
- [ReMind the Body](#)
- [SAMBA \(Spatial, Motor & Bodily Awareness\)](#)

## S.C. Neuroscienze

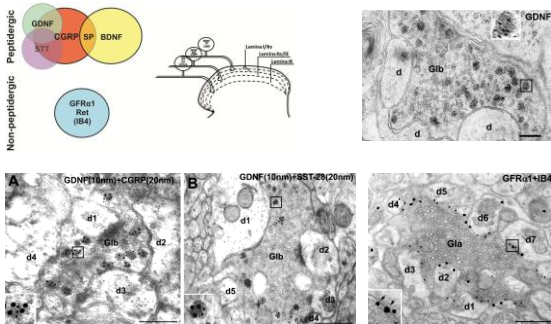
Istituto Zooprofilattico Sperimentale  
del Piemonte, Liguria e Valle d'Aosta

Responsabile:  
Dr.ssa Cristina CASALONE

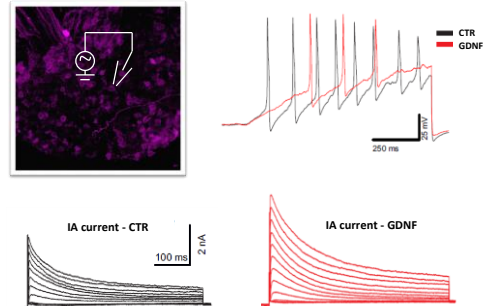




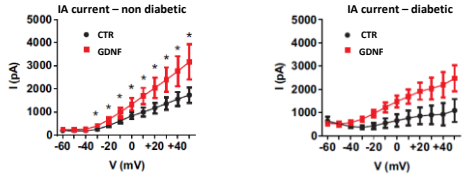
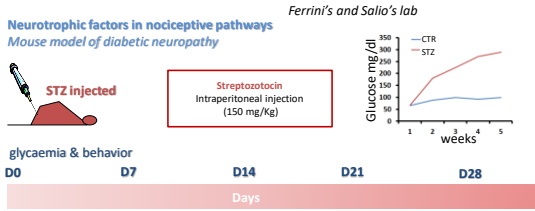
Neurotrophic factors in nociceptive pathways  
ultrastructural localization Ferrini's and Salio's lab



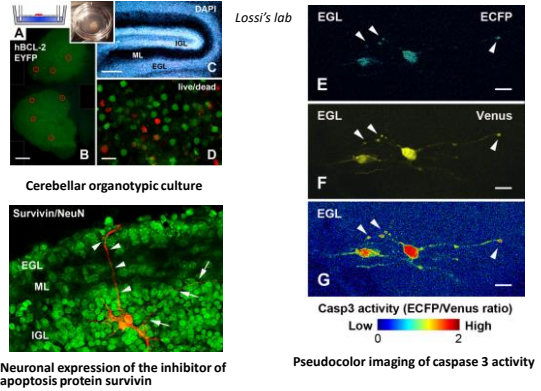
Neurotrophic factors in nociceptive pathways  
patch clamp from sensory neurons Ferrini's and Salio's lab



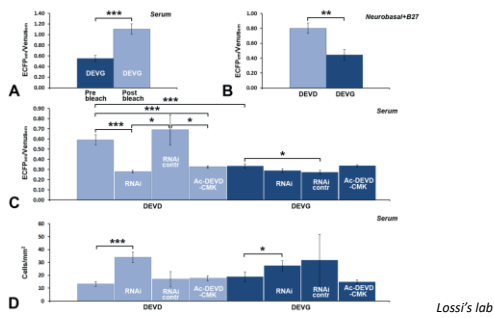




**Ex vivo platform for imaging neuronal death with a caspase 3 FRET probe**



**Ex vivo platform for imaging neuronal death with a caspase 3 FRET probe**



**The Reeler mouse cerebellum to model autism**

