

# IRP RESEARCH PROJECTS FUNDED IN 2020/2021

## IRP RESEARCH GRANTS – BASIC

- 1** **Melissa Andrews**, University of Southampton, Great Britain  
*Enhancing SC regeneration through combinatorial therapies: use of integrin-mediated repair together with chondroitinase treatment*  
**CHF 150'000.- over 2020/2021**

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- 2** **Florence Bareyre**, Institute of Clinical Neuroimmunology, Munich, Germany  
*Improving functional recovery following SCI using neuronal activity and rehabilitation*  
**CHF 150'000.- over 2019/2020**

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- 3** **Jean-René Cazalets**, University of Bordeaux, France  
*The intraspinal cholinergic system: a potential target to regulate vascular tone in SCI subjects*  
**CHF 140'000.- over 2019/2020**

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- 4** **Mike Fainzilber**, Weizmann Institute of Science, Rehovot, Israel  
*Local translation in central versus peripheral axons*  
**CHF 150'000.- over 2019/2020**

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- 5** **Lukas Neukomm**, University of Lausanne, Switzerland  
*Proteolytic machinery executing axon degeneration*  
**CHF 150'000.- over 2019/2020**

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- 6** **Aya Takeoka**, Neuroelectronics Research Flanders (NERF), Louvain, Belgium  
*Revealing age-dependent locomotor circuit plasticity after SCI*  
**CHF 150'000.- over 2019/2020**

## IRP RESEARCH GRANTS – CLINICAL

- 7** **László Demkó**, Balgrist University Hospital, Switzerland  
*Wearable sensor-based instrumented real-time analysis of mobility-related movements in the SCI community*  
**CHF 150'000.- over 2020/2021**

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- 8** **Patrick Freund**, Balgrist University Hospital, Switzerland  
*Tracking metabolic alterations in the cervical and lumbar SC after SCI using magnetic resonance spectroscopy*  
**CHF 145'000.- over 2020/2021**

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- 9** **Johann Jende**, Heidelberg University Hospital, Germany  
*Characterization and quantification of structural changes in the peripheral nervous system following SCI*  
**CHF 150'000.- over 2019/2020**

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- 10** **Antonio Oliviero**, Hospital Nacional de Parapléjicos, Toledo, Spain  
*Effects of a CB1 antagonist/inverse agonist (Rimonabant) on walking abilities and endurance in incomplete traumatic SCI: a proof of principle study*  
**CHF 150'000.- over 2019/2020**

## IRP POSTDOCTORAL FELLOWSHIP

- Philipp Abe**, University of Geneva, Switzerland  
*Single-cell axonal and transcriptional plasticity following SCI*  
**CHF 80'000.- pour 2020**

## IRP SCHELLENBERG RESEARCH PRIZE 2020

- Patrick Freund**, Balgrist University Hospital, Switzerland  
**Jonas Frisén**, Karolinska Institute, Suède  
**CHF 100'000.-**