

JUAN C. SANCHEZ-ARIAS, MD, PHD

Trained as medical doctor and neuroscientist, I'm currently investigating the molecular and cellular mechanisms underlying cardiac arrhythmias and seizures associated with a novel genetic variant in an ion channel adapter protein combining model organism research, clinical genetics, bio-informatics, and computational modelling.

EDUCATION

- 2020 | 2015**
 - **Doctoral of Philosophy in Neuroscience**
University of Victoria - Division of Medical Sciences 📍 Victoria, BC, Canada
 - **Dissertation:** Pannexin 1 regulates dendritic spine formation.
- 2014 | 2007**
 - **Doctor of Medicine (Medico y Cirujano)**
Universidad del Valle - School of Medicine 📍 Cali, Valle, Colombia
 - **Pre-Diploma Rotatory Internship:** Hospital Universitario del Valle ESE - Universidad del Valle. Cali, Valle. Colombia.
 - **Professional elective:** Neurosurgery and Neurocritical Care. Department of Neurosurgery. Hospital Universitario del Valle ESE - Universidad del Valle. Cali, Valle. Colombia.
 - **Observership:** Functional Neurosurgery. Department of Neurosurgery. University of Illinois Hospital & Health Sciences System. University of Illinois at Chicago. Chicago, IL. USA. Supervisor: Dr. Konstantin Slavin.

RESEARCH EXPERIENCE

- Current | 2020**
 - **Postdoctoral Fellow - Michael Smith Foundation for Health Research Awardee**
Division of Medical Sciences 📍 University of Victoria
 - **Area of study:** Inherited arrhythmias | Medical genetics | Bioinformatics | Ion channel biology | Calcium and voltage dysregulation in cardiomyocytes.
 - **Roles:** Project and data management, research execution, grant writing, research writing and presentation.
 - Analyzed transcriptomics datasets to characterize the temporal and spatial expression of relevant inherited arrhythmias associated genes and assembled protein-protein interaction networks functional enrichment analysis for these genes
- 2020 | 2015**
 - **Graduate Research Assistant**
Division of Medical Sciences 📍 University of Victoria
 - **Area of study:** Ion and metabolite channels, developmental neurobiology, channel trafficking, neuronal cytoskeleton, neural stem cells, advanced microscopy.
 - **Roles:** Project and data management, research execution, grant writing, research writing and presentation.
 - Developed and optimized methods to visualize excitatory synapses in experimental models.
- 2014 | 2013**
 - **Research Medical Intern**
Centro de Estudios Cerebrales 📍 Universidad del Valle
 - **Area of study:** functional neuroanatomy, cerebral cortex organization, traumatic brain injury, stroke, neuroprotection.
 - **Roles:** Supported and executed research on experimental traumatic brain injury and ischemic stroke in rodents.
 - Supported clinical assessment of patients in the spinal cord injury clinic.
- 2011 | 2010**
 - **Undergraduate Medical Researcher**
School of Public Health 📍 Universidad del Valle
 - **Area of study:** Cardiovascular risk health, spinal cord injury, rehabilitation medicine, public health.
 - **Roles:** Project and data management, research execution, grant writing, research writing and presentation.

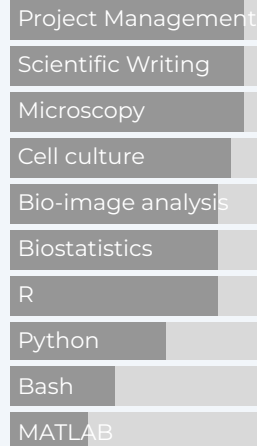


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TECHNICAL SKILLS



Made with the R package [pagedown](#) and [datadrivencv](#).

Source code available at juansanar/datadrivencv

Last updated on 2022-03-22.