**Horizon 2020**

**Marie Sklodowska Curie Actions**

**PROFILE FORM – Expression of Interest**

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| **Organization Name / Department**  | **Center for Complex Systems & Brain Sciences****ECyT/ UNSAM** | **Organization Short Name** | CEMSC3 |
| **Organization Type** | [x]  University[x] Public Research Centre[ ]  Large Scale Enterprise[ ]  Small and Medium Scale Enterprise |  Public Body International NGO National NGO |
| **Research Fields** | [ ] Chemistry **CHE**[x] Social and Human Sciences **SOC**[ ] Economic Sciences **ECO**[ ] Information Science and Engineering **ENG**[ ] Environment and Geosciences **ENV**[x] Life Sciences **LIF**[ ] Mathematics **MAT**[x] Physics **PHY** | ***Sub-Fields / Keywords:***Cognitive and brain sciences, computational systems biology, medicine and statistical physics.  |
| **Short Description** **of the Organization / Department** | The University of San Martín is a leading university that welcomes international collaboration in order to promote innovation projects. Strategically located in the metropolitan area of Buenos Aires, the University Campus offers an exclusive environment which includes laboratories with the latest equipment for research in technological development. The University’s infrastructure and facilities, partnership policies and highly-qualified faculty and staff all enable the consolidation of the productive capacity in its scope of influence, and the transfer of knowledge. The objective of the CEMSC3 is to foster the multidisciplinary study of complexity in nature. Current lines of work includes cognitive and brain sciences, computational systems biology, medicine and statistical physics. Activities include undergraduate and postgraduate teaching, theoretical and experimental research, and extra curricular activities oriented to the study of the brain, mind, behavior and human interactions. |
| **Previous Related Projects / Research Experience** | Investigators at the Center have an extensive track record of publications in complex systems, brain sciences and biological problems. A few examples include being renowned by having introduced the use of graph theory for the analysis of neuroimaging and large scale brain dynamics in health and disease. At the level of proteins, they called attention to critical dynamics to understand protein folding. At the cognitive side they are actively involved on a world-wide project to understand brain diversity.  |
| **Short Description of the Project idea** **(if foreseeable)** | Research Areas: Statistical Physics of Complex Systems; Theory and applications of complex networks; Large-scale brain dynamics; Computational Neuro-imagenes; Critical phenomena in biology; Molecular motors and proteins; and Cognitive Sciences. |
| **Related Call**  | Any MCSA call related to RISE, IF and ITN actions. |
| **Contact Person** | Prof. Dante R Chialvo |
| **Position in the Organization** | Head |
| **Tel** | +54 911 5980-2936 |
| **Email** | dchialvo@gmail.com |