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Research Scientist, University of Montreal, Canada

My main scientific interest focuses on the study of biological networks and embraces several different aspects, from data curation and analysis to data integration, data sharing and text-mining. I have several years of experience in managing biological databases. I am currently member of the BioGRID database and previously, I was the manager of the MINT (Molecular INTeraction) database. I am also a member of the HUPO-PSI molecular interaction workgroup, for the standardization of the representation of molecular interactions.

I believe that biocuration plays a pivotal role for the advance of science not only by providing the scientific community with high-quality datasets but also by fostering the cross-talk between different and distant communities.

In fact biological databases and curators communicate now with researchers from many different fields on a daily basis, including text-miners, ontologists, pure computational biologists and, of course, wet-lab biologists.

I therefore believe that this is an exiting time for the Biocuration Society. The Society that has the opportunity to contribute to guide and educate the biomedical field in the best practices of data annotation, standardization, biological concepts definitions and data interpretation in addition to supporting advances in these related fields.

By joining the ISB Executive Committee I would like to use my enthusiasm and experience to support the growth of the Society.

Conflict of interest: none declared.

Education

2000 B.S. (Hons) Biological Sciences, University of Rome “La Sapienza”, Italy.
2001-2004 Ph.D. Molecular Sciences, University of Rome “Tor Vergata”, Italy.

Positions

2000-2001 Research Fellow, Dept. Molecular Biology, University of Rome, “Tor Vergata”, Italy
2004-2009 Postdoctoral Fellow, Dept. of Genetics, University of Rome “Tor Vergata”, Italy
2009 to 2011 Research Scientist, University of Edinburgh, UK
2011 to present Research Scientist, University of Montreal, Canada

Membership in Professional Societies and Appointments in Scientific Committees and Advisory Boards

2005 to present Member of PSI-MI (Proteomics Standards Initiative – Molecular Interactions) controlled-vocabulary and ontology editorial group
2009 to present Member of the BioCreative User Advisory Group (2009-to present)
2014-2015 Organizer of the Collaborative Biocurator Assistant Task (BioC) – BioCreative V
2009 to present Member of the Biocuration Society

Journal Reviewer

BMC Bioinformatics, Bioinformatics, FEBS Letters, Proteomics, Trends in Biochemical Sciences, DATABASE, Journal of Proteomics, Nucleic Acids Research, Nature Methods.

Teaching

2003-2004 Instructor, Molecular Biology Course University of Rome “Tor Vergata”, Italy
2004-2005 Instructor, Bioinformatics, University of Rome “Tor Vergata”, Italy
2009 Teaching Assistant, Genetics, University of Rome “Tor Vergata”, Italy
2009 EMBO Practical course on Networks in Biology, Bologna, Italy
2011 Bioinformatics, PhD Programme, Spring Course University of Edinburgh, UK

Selected Publications

(+ Co-first authorship)

1. **Chatr-Aryamontri A**, Breitkreutz BJ, Oughtred R, Boucher L, Heinicke S, Chen D, Stark C, Breitkreutz A, Kolas N, O'Donnell L, Reguly T, Nixon J, Ramage L, Winter A, Sellam A, Chang C, Hirschman J, Theesfeld C, Rust J, Livstone MS, Dolinski K, Tyers M. *The BioGRID interaction database: 2015 update*. Nucleic Acids Res. 2015 Jan;43(Database issue):D470-8
2. Dolinski K, **Chatr-Aryamontri A**, Tyers M. *Systematic curation of protein and genetic interaction data for computable biology*. BMC Biol. 2013 Apr 15;11:43
3. Arighi CN, Carterette B, Cohen KB, Krallinger M, Wilbur WJ, Fey P, Dodson R, Cooper L, Van Slyke CE, Dahdul W, Mabee P, Li D, Harris B, Gillespie M, Jimenez S, Roberts P, Matthews L, Becker K, Drabkin H, Bello S, Licata L, **Chatr-aryamontri A**, Schaeffer ML, Park JJ, Haendel M, Van Auken K, Li Y, Chan J, Muller HM, Cui H, Balhoff JP, Wu JC, Lu Z, Wei CH, Tudor CO, Raja K, Subramani S, Natarajan J, Cejuela JM, Dubey P, and Wu C. *An Overview of the BioCreative 2012 Workshop Track III: Interactive Text Mining Task*. Database. 2013 Jan 17;2013:bas056
4. Hirschman L, Burns GA, Krallinger M, Arighi C, Cohen KB, Valencia A, Wu CH, **Chatr-aryamontri A**, Dowell KG, Huala E, Lourenço A, Nash R, Veuthey AL, Wieggers T and Winter AG. *Text Mining for the Biocuration Workflow*. Database. 2012 Apr 18;2012:bas020
5. Krallinger M, Leitner F, Vazquez M, Salgado D, Marcelle C, Tyers M, Valencia A, **Chatr-aryamontri A**
6. How to link ontologies and protein-protein interactions to literature: text-mining approaches and the BioCreative experience. Database (Oxford). 2012 Mar 21;2012:bas017
7. Kiel C, Vogt A, Campagna A, **Chatr-aryamontri A**, Swiatek-de Lange M, Beer M, Bolz S, Mack AF, Kinkl N, Cesareni G, Serrano L & Ueffing M. *Structural and functional protein network analyses predict novel signaling functions for rhodopsin*. Mol Syst Biol. 2011 Nov 22;7:551
8. *Leitner F, ***Chatr-aryamontri A**, Mardis S, Ceol A, Krallinger M, Licata L, Hirschman L, Cesareni G and Valencia A. *The FEBS Letters/BioCreative II.5 Experiment: Making Biological Information Accessible*. Nature Biotechnology 2010, 28, 897–899.
9. ***Chatr-aryamontri A**, *Kerrien S, *Khadake, J, Orchard S, Ceol A, Licata L, Castagnoli L, Costa S, Derow C, Huntley R, Aranda B, Leroy C, Thorneycroft D, Apweiler R, Cesareni G and Hermjakob H
10. *MINT and IntAct contribute to the Second BioCreative Challenge: serving the text-mining community with high quality molecular interaction data*. Genome Biology 2008, 9(Suppl 2):S5
11. Ceol A, **Chatr-Aryamontri A**, Licata L, Cesareni G. *Linking entries in protein interaction databases to structured text: The FEBS Letters experiment*. FEBS Lett. 2008 Mar 6
12. Kerrien S, Orchard S, Montecchi-Palazzi L, Aranda B, Quinn AF, Vinod N, Bader GD, Xenarios I, Wojcik J, Sherman D, Tyers M, Salama JJ, Moore S, Ceol A, **Chatr-aryamontri A**, Oesterheld M, Stümpflen V, Salwinski L, Nerothin J, Cerami E, Cusick ME, Vidal M, Gilson M, Armstrong J, Woollard P, Hogue C, Eisenberg D, Cesareni G, Apweiler R, Hermjakob H *Broadening the horizon - level 2.5 of the HUPO-PSI format for molecular interactions*. BMC Biol. 2007;5:44.