

Peer Reviewed Papers

Vaggi, Federico, James Dodgson, Anatole Chessel, et al, 2015. “Reconstructing regulatory pathways by systematically mapping protein localization interdependency networks.” *Molecular Systems Biology*. Under Review, minor revisions. Expected publication date: first half 2016.

Abreu, Diana Andrea Fernandes de, Antonio Caballero, Pascal Fardel, Nicholas Stroustrup, Zhunan Chen, K Lee, William D Keyes, **Federico Vaggi**, et al. 2014. “An Insulin-to-Insulin Regulatory Network Orchestrates Phenotypic Specificity in Development and Physiology.” *PLoS Genet.* 10 (3): e1004225.

Dodgson, James, Anatole Chessel, Miki Yamamoto, **Federico Vaggi**, Susan Cox, Edward Rosten, David Albrecht, et al. 2013. “Spatial Segregation of Polarity Factors into Distinct Cortical Clusters Is Required for Cell Polarity Control.” *Nature Communications* 4: 1834.

Honeth, Gabriella, Tommaso Schiavinotto, **Federico Vaggi**, Rebecca Marlow, Tokuwa Kanno, Ireneusz Shinomiya, Sara Lombardi, et al. 2015. “Models of Breast Morphogenesis Based on Localization of Stem Cells in the Developing Mammary Lobule.” *Stem Cell Reports* 4 (4): 699–711.

Vaggi, Federico, Andrea Disanza, Francesca Milanese, Pier Paolo Di Fiore, Elisabetta Menna, Michela Matteoli, Nir S Gov, Giorgio Scita, and Andrea Ciliberto. 2011. “The Eps8/IRSp53/VASP Network Differentially Controls Actin Capping and Bundling in Filopodia Formation.” *PLoS Comput Biol* 7 (7): e1002088–e1002088.

Vaggi, Federico, James Dodgson, Archana Bajpai, Anatole Chessel, Ferenc Jordán, Masamitsu Sato, Rafael Edgardo Carazo-Salas, and Attila Csikász-Nagy. 2012. “Linkers of Cell Polarity and Cell Cycle Regulation in the Fission Yeast Protein Interaction Network.” *PLoS Comput Biol*

Vaggi, Federico, Tommaso Schiavinotto, Jonathan LD Lawson, Anatole Chessel, James Dodgson, Marco Geymonat, Masamitsu Sato, Rafael Edgardo Carazo Salas, and Attila Csikász-Nagy. 2014. “A Network Approach to Mixing Delegates at Meetings.” *ELife* 3: e02273.

Alcedo, J, A Caballero, DA De Abreu, P Fardel, N Stroustrup, Z Chen, K Lee, **Vaggi, F**, et al. 2014. “An Insulin-Like Peptide Code for Physiology.” *CHEMICAL SENSES* 39 (1): 75–76.

Book Chapters, Posters, and Pre-Prints

Csikasz-Nagy, Attila, **Federico Vaggi**, James Dodgson, Anatole Chessel, Marco Geymonat, Marco Giordan, Kunio Arai, Masamitsu Sato, and Rafael Edgardo Carazo Salas. 2015. “Systems Level Understanding of Cell Polarity Regulation.” In *YEAST*, 32:S247–S247. WILEY-BLACKWELL 111 RIVER ST, HOBOKEN 07030-5774, NJ USA.

Dodgson, J, A Chessel, **F Vaggi**, S Cox, E Rosten, M Yamamoto, M Geymonat, et al. 2011. “Cortical Clustering of Cell Polarity Regulators.” In *MOLECULAR BIOLOGY OF THE CELL*. Vol. 22. AMER SOC CELL BIOLOGY 8120 WOODMONT AVE, STE 750, BETHESDA, MD 20814-2755 USA.

Giordan, M, **F Vaggi**, and R Wehrens. 2014. “Comparison of Computational Approaches for Maximum Likelihood Estimation on Compositional Data.” In *International Biometrics Conference 2014*.

Giordan, Marco, **Federico Vaggi**, and Ron Wehrens. 2014. “On the Maximization of Likelihoods Belonging to the Exponential Family Using Ideas Related to the Levenberg-Marquardt Approach.” *ArXiv Preprint ArXiv:1410.0793*.

Kahramanoğullari, Ozan, Andrew Phillips, and **Federico Vaggi**. 2013. “Process Modeling and Rendering of Biochemical Structures: Actin.” In *Biomechanics of Cells and Tissues*, 45–63. Springer Netherlands.

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Vaggi, Federico, and Attila Csikász-Nagy. 2012. "'Keystone Species' of Molecular Interaction Networks." *Models of the Ecological Hierarchy: From Molecules to the Ecosphere* 25: 73.

Giordan, M, A Csikasz-Nagy, AM Collings, and **F Vaggi**. 2016. "The Effects of an Editor Serving as One of the Reviewers During the Peer-Review Process [Version 1; Referees: Awaiting Peer Review]." *F1000Research* 5 (683). doi:[10.12688/f1000research.8452.1](https://doi.org/10.12688/f1000research.8452.1).