

SELECTION OF HYBRIGENICS' CORE PUBLICATIONS

Please find below a selection of original articles and reviews by Hybrigenics staff that describe our core experimental and bioinformatics technologies (ULTimate Y2H™, Loss of Affinity Mutants, Confidence scoring, large scale protein interaction mapping and analysis etc...). Don't miss the other list reporting all publications describing a biochemical or functional validation of Hybrigenics Y2H data (including clients screens)!

> 2007

- › Busschots K., Voet A., De Maeyer M., Rain J.C., Emiliani S., Benarous R., Desender L., Debysier Z. and Christ F. Identification of the LEDGF/p75 Binding Site in HIV-1 Integrase. **Journal of Molecular Biology**, **365**, 1480-1492
- › Collura V. & Boissy G. "From Protein-Protein Complexes to Interactomics". **Subcellular Proteomics – Subcellular Biochemistry Vol.43, Edited by E. Bertrand & M. Faupel; pp135-183, 2007 Springer.**

> 2006

- › Maroun M., Delelis O., Coadou G., Bader T., Segeral E., Mbemba G., Petit C., Sonigo P., Rain J.-C., Mouscadet J.-F., Benarous R. and Emiliani S. Inhibition of early steps of HIV-1 replication by SNF5/Ini. **Journal of Biological Chemistry** **281 (32)**, 22736-43
- › Formstecher E, Reverdy C, Cholay M, Planquette C, Trouplin V, Lehrmann H, Aresta S, Calabrese A, Arar K, Daviet L, and Colland F. Combination of active and inactive siRNA targeting the mitotic kinesin Eg5 impairs silencing efficiency in several cancer cell lines. **Oligonucleotides. 2006 Winter;16(4):387-94.**
- › Colland F. "Ubiquitin and cancer: From Molecular Targets and mechanisms to the Clinic-AACR Special Conference" **IDrugs**, **9 (3)**, 179-81
- › Durand P., Labarre L, Meil. A, Divol JL., Vandenbrouck Y., Viari A. & Wojcik J. "GenoLink: a graph-based querying and browsing system for investing the function of genes and proteins." **BMC bioinformatics**, **7:21**

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- > Emiliani S., Mousnier A., Busschots K., Maroun M., Van Maele B., Tempé D., Vandekerckhove L., Moisant F., Ben-Slama L., Witvrouw M., Christ F., Rain JC., Dargemont C., Debyser Z. & Benarous R. "Integrase Mutants Defective for Interaction with LEDGF/p75 Are Impaired in Chromosome Tethering and HIV-1 Replication." **Journal of Biological Chemistry**, **280 (27)**, 25517-25523
- > Meil A, Durand P, Wojcik J. PIMWalker: visualising protein interaction networks using the HUPO PSI molecular interaction format. **Appl Bioinformatics**. 2005;4(2):137-9. PMID: 16128615
- > Colland F. & Legrain P. "Human signaling pathways analyzed by protein interaction mapping" **2005 Online Encyclopedia of Genetics, Genomics, Proteomics and Bioinformatics**.
- > E. Formstecher, S. Aresta, V. Collura, A. Hamburger, A. Meil, A. Trehin, C.Reverdy, V. Betin, S. Maire, C. Brun, B. Jacq, M. Arpin, Y. Bellaiche, S. Bellusci, P. Benaroch, M. Bornens, R.Chanet, P. Chavrier, O. Delattre, V. Doye, R.Fehon, G. Faye, T. Galli, J-A. Girault B. Goud, J. de Gunzburg, L. Johannes, M-P. Junier, V. Mirouse, A. Mukherjee, D. Papadopoulo, F. Perez, A. Plessis, C. Rosse, S. Saule, D. Stoppa-Lyonnet, A. Vincent, M. White, P. Legrain, J. Wojcik, J. Camonis and L. Daviet "Protein interaction mapping: A Drosophila case study." **Genome Research**, **16, March 1, 2005**
- > Boissy, G. and Wojcik, J. "Analyse bioinformatique des interactions protéiques : allier quantité et qualité." **Biofutur**, **252, 32-36**
- > Durand P., Labarre L., Meil A. and Wojcik J. "Genolink: Discovering Drug Target Proteins by Exploring Networks of Heterogeneous Biological Data" **Special Theme: Biomedical Informatics ERCIM News**, **60 - January 2005**

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- > Camonis J., Daviet L. "Using model organisms and phylogenetic conversation, the DrosoMan project combines high-tech hand-made science and industrial know-how to target the Achilles heel of cancer cells. A comparative proteomic project that associates Academia and Biotech". **J. Soc. Biol.**, **198 (2)**, 127-131.
- > Colland F. and Daviet L. "Integrating a functional proteomic approach into the target discovery process" **Biochimie** **86**, 625-632
- > Orchard S., Hermajakob H., Julian RK Jr, Runte K, Sherman D., Wojcik J., Zhu W. and Apweiler R. "Common interchange standards for proteomics data: Public availability of tools and schema" **Proteomics** **4**, 490-491
- > Strosberg A.D. "Breaking the spell: drug discovery based on modulation of protein-protein interactions" **Expert Review of Proteomics**, **1 (2)**, 141-143
- > Colland F., Jacq X., Trouplin V., Mouglin C., Groizeleau C., Hamburger A., Meil A., Wojcik J., Legrain, P. and Gauthier J.M. "Functional proteomic mapping of a human signaling pathway". **Genome Research** **14**, 1324-1332

- > Real, E., Rain J-C, Battaglia, V., Jallet, C., Perrin, P., Tordo, N., Chrisment, P., D'Alayer, J., Legrain, P. and Jacob, Y. "An antiviral drug discovery strategy using combinatorial libraries of structurally constrained peptides". *Journal of Virology*, **78(14)**, 7410-7417
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- > Brun, C., Chevenet, F., Martin, D., Wojcik, J., Guénoche, A. and Jacq, B. "Functional classification of proteins for the prediction of cellular function from a protein-protein interaction network". *Genome Biology* **5**, R6.1 – R6.13
- > Strosberg A.D., Daviet L., Borg-Capra C., "Functional Proteomics Applied to Obesity Research" in *"Progress in Obesity Research"*, pp 229-233, G. Medeiros-Neto, A. Halpern and C. Bouchard Eds, John Libbey Eurotext Ltd.
- > Durand P., Medigue C., Morgat A., Vandenbrouck Y., Viari A. & Rechenmann F. "Integration of data and methods for genome analysis". *Current Opinion in Drug Discovery & Development*, **6(3)**, 346-352
- > Wojcik J., Hamburger A. "Proteomics Informatics" in "Bioinformatics for Geneticists", pp 345-369, Eds M. R. Barnes and I. C. Gray, John Wiley & Sons Ltd.
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- > Strosberg A.D. "Protein Interaction Mapping for Target Validation: the Need for an Integrated Combinatory Process Involving Complementary Approaches". *Current Opinion in Molecular Therapeutics*, **4 (6)**, 594-600
- > Wojcik J., Boneca I.G., Legrain P. "Prediction, Assessment and Validation of Protein Interaction Maps in Bacteria". *Journal of Molecular Biology*, **323**, 763-770
- > Schachter V. "Bioinformatics of Large-Scale Protein Interaction Networks". *Biotechniques, Computational Proteomics Supplement* **32**, S16-S27
- > Neumann E., Schächter V. "The Informatics for Making Sense of the Genome: A Progress Report from the BioPathways Consortium". *Journal of Comparative and Functional Genomics*, **3 (2)**, 115-118.
- > Fromont-Racine M., Rain J.-C., Legrain P. "Building protein-protein networks by a two-hybrid mating strategy". *Methods in Enzymology*, **350**, 513-524

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- > Legrain P. "Protein Interactions Contribute to Protein Function". (***Book review Trends in Biotechnology, 20, 358-359***)
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