

Marta Maria Rubio-Teixeira, PhD

Publications

- [1] Van Zeebroeck, G, **Rubio-Teixeira, M.***, Schothorst J. and Thevelein J. (2013). Specific analogs uncouple transport, signaling, oligo-ubiquitination and endocytosis by an amino acid transceptor. Manuscript in preparation.* As co- first author.
- [2] Aouida M., **Rubio-Teixeira M.**, Thevelein J., Poulin R., and Ramotar D. (2013). AGP2 encodes a multifunctional transceptor that positively regulates polyamine transport. Submitted to PLOS Genetics.
- [3] **M. Rubio-Teixeira**, Van Zeebroeck G., and Thevelein J.M. “Peptides induce persistent signaling from endosomes by a nutrient transceptor” Nature Chemical Biology 8(4):400-8 (2012). Impact Factor 2010: **15.808**.
- [4] Kriel J, Haesendonckx S, **Rubio-Teixeira M**, Van Zeebroeck G, Thevelein JM. **Review article**. “From transporter to transceptor: Signaling from transporters provokes re-evaluation of complex trafficking and regulatory controls: Endocytic internalization and intracellular trafficking of nutrient transceptors may, at least in part, be governed by their signaling function”. Bioessays 33: 870–879 (2011). Impact Factor 2010: **4.479**.
- [5] **M. Rubio-Teixeira**, Van Zeebroeck G, Voordeckers K, Thevelein JM. **Review article**. “Saccharomyces cerevisiae plasma membrane nutrient sensors and their role in PKA signaling. FEMS Yeast Res. 10:134-49 (2010). Impact factor 2009: **1.785**
- [6] **M. Rubio-Teixeira**, **Book chapter**. “Molecular and physiological aspects of relevance in the design of industrial strains of lactose/galactose-metabolising yeasts for biotechnological applications”. Chapter 10, pp. 268-331. Book title: “Advances In Fungal Biotechnology” (2009). Ed. Dr. Mahendra K. Rai , I.K. International Group, New Delhi. ISBN: 8189866532
- [7] Thevelein JM, Bonini BM, Castermans D, Haesendonckx S, Kriel J, Louwet W, Thayumanavan P, Popova Y, **Rubio-Teixeira M**, Schepers W, Vandormael P, Van Zeebroeck G, Verhaert P, Versele M, Voordeckers K. **Review article**. “Novel mechanisms in nutrient activation of the yeast Protein Kinase A pathway”. Acta Microbiologica et Immunologica Hungarica 55 (2): 75-89 (2008).
- [8] **M. Rubio-Teixeira**. **Review article**. “Milk: microbes’ heaven making humans’ paradise”. Dynamic Biochemistry, Process Biotechnology and Molecular Biology 1 (1): 40-62 (2007). ISSN 1749-0626
- [9] **M. Rubio-Teixeira**. “Urmlylation controls Nil1p and Gln3p-dependent expression of nitrogen-catabolite repressed genes in Saccharomyces cerevisiae”. FEBS Letters 581:541-550 (2007). Impact factor 2007: **3.263**
- [10] **M. Rubio-Teixeira** and C. A. Kaiser. “Amino acids regulate retrieval of the yeast general amino acid permease from the vacuolar targeting pathway”. Molecular Biology of the Cell 17: 3031-3050 (2006). Impact factor 2006: **6.562**
- [11] **M. Rubio-Teixeira**. **Review article**, “Endless versatility in the biotechnological applications of *Kluyveromyces LAC* genes”. Biotechnology Advances 24: 212-225 (2006). Impact factor 2006: **4.943**
- [12] **M. Rubio-Teixeira**. **Review article**, “A comparative analysis of the GAL genetic switch between not-so-distant cousins: *Saccharomyces cerevisiae* versus *Kluyveromyces lactis*”. FEMS Yeast Research 5: 1115-1128 (2005). Impact factor 2005: **2.477**
- [13] A. C. Adam, **M. Rubio-Teixeira** and J. Polaina. **Review article**, “Lactose, the milk sugar from a biotechnological perspective”. Critical Reviews in Food Science and Nutrition. 44:553-557 (2004). Impact factor 2004: **3.278**
- [14] **M. Rubio-Teixeira**, J. M. Varnum, P. Bieganowski and C. Brenner. “Control of dinucleoside polyphosphates by the *FHIT*-homologous *HNT2* gene, adenine biosynthesis and heat shock in *Saccharomyces cerevisiae*”. BMC Mol. Biol. 3 (1): 7. (2002). Earliest impact factor 2004: **3.115**
- [15] **M. Rubio-Teixeira**, M. Arevalo-Rodriguez, J. L. Lequerica and J. Polaina. “Lactose utilization by *Saccharomyces cerevisiae* strains expressing *Kluyveromyces lactis LAC* genes”. J. Biotechnology. 84: 97-106 (2000). Impact factor 2000: **1.311**
- [16] A. C. Adam, G. Gonzalez-Blasco, **M. Rubio-Teixeira** and J. Polaina. “Transformation of *Escherichia coli* with DNA from *Saccharomyces cerevisiae* cell lysates”. Appl. Environ. Microbiol 65: 5303-5306 (1999). Impact factor 1999: **3.541**
- [17] A. C. Adam, J. A. Prieto, **M. Rubio-Teixeira** and J. Polaina. “Construction of a lactose-assimilating strain of baker’s yeast”. Yeast 15: 1299-1305 (1999). Impact factor 1999: **2.641**
- [18] **M. Rubio-Teixeira**, J. I. Castrillo, A. C. Adam, U. O. Ugalde and J. Polaina. “Highly efficient assimilation of lactose by a metabolically engineered strain of *Saccharomyces cerevisiae*”. Yeast 14: 827-837 (1998). Impact factor 1998: **2.221**
- [19] A. C. Adam AC, **M. Rubio-Teixeira** and J. Polaina. “Induced expression of a bacterial β -glucosidase activity in *Saccharomyces*”. Yeast 11: 395-406 (1995). Impact factor 1995: **2.862**

Meetings/ Seminars/ Conferences

Annual meetings.

- **30th Small meeting on yeast transport and energetics, Salamanca, Spain (SMYTE 9-12 July, 2012).** Poster presentation: Specific analogs uncouple transport, signaling and endocytosis in an amino acid transceptor.
- **29th Small meeting on yeast transport and energetics, Merida, Mexico (SMYTE 5-9 Sep, 2011).** Oral presentation: “Effect of specific gamma-glutamyl dipeptides in the signaling and sorting of the transceptor Gap1”.
- **25th International Conference on Yeast Genetics and Molecular Biology, Olsztyn-Kortowo, Poland (IYGMB, 11-16 July 2011).** Poster presentation: “Specific gamma-glutamyl dipeptides cause persistent signaling and defective vacuolar sorting of *S.cerevisiae* Gap1 in a pH-dependent manner”.
- **4th Conference on physiology of yeast and filamentous fungi, Rotterdam, The Netherlands (PYFF 1-4 June, 2010).** Oral presentation: “Specific dipeptides induce persistent signaling and deficient vacuolar sorting of the yeast amino acid transceptor Gap1”.
- **27th Small meeting on yeast transport and energetics, Blankenberge, Belgium (SMYTE 4-8 Sep, 2009; member of the organizing committee).** Oral presentation: “Specific dipeptide analogs induce long-term activation of PKA and interfere with vacuolar sorting of the transceptor Gap1”.
- **24th International Conference on Yeast Genetics and Molecular Biology, Manchester, U.K. (IYGMB, 19-23 July 2009).**
- **26th Small meeting on yeast transport and energetics, Braga, Portugal (SMYTE 6-9 Sep, 2008).** Poster presentation: “Effect of agonists of Gap1-dependent activation of PKA targets on downregulation of amino acid permease activity”
- **Yeast Cell Biology Meeting, Aug 12-17, 2003, Cold Spring Harbor, New York.** Oral presentation, Aug 15: “Nitrogen-regulated vacuolar sorting of permeases occurs during formation of multivesicular bodies”
- **Cancer Genetics & Tumor Suppressor genes Meeting, Aug 16-20, 2000, Cold Spring Harbor, New York.**
- **Yeast Cell Biology Meeting, Aug 14-19, 2001, Cold Spring Harbor, New York.**

Other seminars/conferences.

- **VIB Department Annual Meeting** (Blankenberge, Belgium; March 12, 2009). Oral presentation: Constitutive activation of PKA pathway induced by specific dipeptides through the yeast GAP1 transceptor.
- **PAI/UAP 6/14: 2008 Meeting** (Leuven, Belgium, 2008). Oral presentation: “Constitutive-like activity induced by specific dipeptides in the yeast Gap1 amino acid transceptor.”
- **Workshop on Amino Acid Transport in *Saccharomyces cerevisiae* and *Candida albicans*, Bilateral Scientific Cooperation Belgium-Czech Republic** (Department of Molecular Microbiology, VIB & K.U. Leuven, Heverlee, Leuven; May 27, 2008). Oral presentation: “Effect of agonists of the signaling function of Gap1 on its post-translational regulation”
- **Invited oral presentation:** “Gap1 at the crossroads of nitrogen regulation”. Department of Molecular Microbiology, **VIB & K.U. Leuven, Heverlee, Leuven; May, 2007).**
- **II Workshop-IBMB: Advances in Molecular Biology by young Spanish Scientist working abroad** (“Avances en Biología Molecular por jóvenes investigadores en el extranjero”, Barcelona, Spain, 15-18 Dec, 2003). Oral presentation: “Nitrogen- regulated vacuolar sorting of permeases occurs during formation of multivesicular bodies, (“Control por nitrógeno del transporte de permeasas a través de la formación de cuerpos multivesiculares (MVBs)”).
- Institute of Agricultural Chemistry and Food Technology (I.A.T.A). (National Research Council of Spain (CSIC), Valencia, Spain, March 23, 1995). Oral presentation: “Construction of new *S.cerevisiae* strains able to ferment lactose”.
- Institute of Agricultural Chemistry and Food Biotechnology (I.A.T.A). (National Research Council of Spain (CSIC), Valencia, Spain, December 12, 1994). Oral presentation: “Overexpression in yeast of genes under the control of a promoter recognized by the RNA polymerase of T7 phage”.
- Oral presentation: “Methods in Genetic Engineering and their Biotechnological Applications”: Universidad Pontificia Católica (College of Chemistry, Lima, Perú, June 1996) and Universidad Nacional de Educación Enrique Guzmán y Valle, (Department of Biology, Chosica (Perú).

Monographic courses.

- **VRTC Summer School on Advanced Light Microscopy (VIB Research Training Course** in Gent, 21-24 June 2010)
- **Basics in Microscopy; Fluorescence microscopy & DIC microscopy; Digital Imaging in Microscopy (Olympus, Aartselar, 2009).**
- **“Bioinformatics for Biologists”,** organized by **BaRC, Whitehead Institute**, 9 Cambridge Center, MA 02142 (Feb-April, 2005)
 - Unix, Perl, & BioPerl (Feb 7, 9, 11; 2005)
 - Sequence Analysis & Genome Browsers (Feb 28, March 2, 4; 2005)
 - Getting to know your protein (March 21, 23, 25; 2005)
 - Analysis of microarray data (April 11, 13, 15; 2005)
- **“Electronic Microscopy in Biology”** (March, 1991), & **“Cell cultures”** (April, 1991). Courses organized by Futura Medical S.A. and the Official College of Biologists, Valencia (Spain).