

## TRABAJOS CIENTÍFICOS PUBLICADOS

### A) Revistas arbitradas de circulación internacional

- Korc, I., Montes, J., **Osinaga, E.**, Korc, B., Cayota, A. and Berretta, J. The state of sulphhydryl groups in lenses of insulin-induced hypoglycemic rats. *Metabolic Pediatric System. Ophthalmology* 7:81-84 (1983)
- Osinaga, E.**, Larre Borges, A., Sanguinetti, J., Mancuso, G.; Lopez, A. et Larre Borges, U. Etude comparative entre la phosphatase alcaline et la gamma-glutamyl transpeptidase dans le diagnostic des metastases hepaticues. *Journal de Chirurgie (Paris)* 122:17-20 (1985)
- Osinaga, E.**, Lara Baruque, S. y Cifuentes, L. Niveles séricos de sialoglicoproteínas solubles en ácido perclórico en ratas portadoras de sarcoma de Yoshida. *Rev. Esp. Oncol.* 32:291-300 (1985)
- Sempol, D., **Osinaga, E.**, Zigman, S., Korc, I., Korc, B., Sans, A., Radi, R., Berretta, J., Cayota, A. and Schwalb, M. Lactate dehydrogenase activity and its isoenzymes in concentric layers of adult and calf lenses. *Current Eye Res.* 6:555-560 (1987)
- Pancino, G. Le Doussal, V., Mortada, M., Berthon, P., **Osinaga, E.**, Calvo, F. and Roseto A. Characterization and distribution in normal and tumoral human tissues of breast-cancer associated antigen defined by monoclonal antibody 7B10. *Cancer Res.* 49:7078-7085 (1989).
- Pancino, G., **Osinaga, E.**, Vorauer, W., Kakouche, A., Mistro, D., Charpin, C. and Roseto A. Production of a monoclonal antibody as immunohistochemical marker on paraffin embedded tissues using a new immunization method. *Hybridoma* 9: 389-395 (1990)
- Pancino, G., Charpin, C., **Osinaga, E.**, Betaille, B., Le Roy, M., Calvo, F. and Roseto. Characterization and distribution in human tissues of a glycoproteic antigen defined by monoclonal antibody 1BE12 raised against the human breast cancer cell line T47D. *Cancer Res.* 50:7333-7342 (1990).
- Pancino, G., **Osinaga, E.**, Charpin, C, Mistro, D., Barque, J.Ph et Roseto, A. Un anticorps 83D4 identifie un antigene associe au carcinome du sein qui n'est pas detecte dans le sein normal. *Bulletin du Cancer (Paris)* 77 (Suppl. 1):99s-103s (1990)
- Pancino, G., **Osinaga, E.**, Charpin, C., Mistro, D., Barque, J. Ph. and Roseto A. Purification and characterization of a breast-cancer-associated glycoprotein not expressed in normal breast and identified by monoclonal antibody 83D4. *Br. J. Cancer* 63: 390-398 (1991)
- Pancino, G., Toubert, M., **Osinaga, E.**, Chatelet, F., Le Roy, M., Schlageter, M., Desroys du Roure, F., Calvo, F., Teillac, P., Najean, Y. and Roseto, A. Histological and urinary reactivity of monoclonal antibody 1BE12 in bladder carcinoma. Purification of the antigen from urine. *Int. J. Cancer* 47:221-226 (1991)
- Pancino, G., Mortada, M., Charpin, C., **Osinaga, E.**, De Cremoux, P., Betaille, B., Gobert; M., Calvo, F. and Roseto, A. Two monoclonal antibodies identify antigens preferentially expressed on normal human breast versus breast cancer. *Hybridoma* 10:241-253 (1991)
- Charpin, C., Pancino, G., Boubli, L., Blanc, B., **Osinaga, E.**, Lavaut, M., Allasia, C. and Roseto, A. Monoclonal antibody 1BE12 immunoreactivity in human endometrium: correlations with hormone receptors and proliferation cell

- markers (Ki 67, cathepsin, p.HER-2neu, EGFR, p.myc, p.ras) immunocytochemical assays. *Int. J. Gynecol. Pathol.* 10:380-393 (1992)
- Baville, F., Ammouri, O., Charpin, C., Della-Valle, V., Soulard, M., Guillemin, M.C., **Osinaga, E.**, Pancino, G., Roseto, A and Barque, J. Ph. Production of a mouse monoclonal antibody (B1N) reactive with a human nuclear antigen associated with cell proliferation. *C.R. Acad. Sci. (Paris)* 312:301-307 (1991)
- Osinaga, E.**, Pancino, G., Beuzelin, M., Babino, A., Rodriguez, D., Robello, C., Tiscornia, A., Phillips, E., Bourguignat, A. and Roseto A. Detection of a soluble antigen defined by monoclonal antibody 83D4 in serous effusions associated with breast carcinoma. *Cancer* 69: 1745-1749 (1992)
- Osinaga, E.**, Pancino, G., Porchet, N, Mistro, D, Aubert, J.P and Roseto A. Analysis of the carcinoma-associated epitope defined by monoclonal antibody 83D4. *J. Tumor Marker Oncol.* 7:13-24 (1992)
- Charpin, C., Pancino, G., **Osinaga, E.**, Bonnier, P., Lavaut, M., Allasia, C. and Roseto, A. Monoclonal antibody 83D4 immunoreactivity in human tissues: cellular distribution, and microcytophotometric analysis of immunoprecipitates on tissue sections. *Anticancer Res.* 12: 209-224 (1992)
- Eisele, J-L., Tello, D., **Osinaga, E.**, Roseto, A. and Alzari, P. Crystallization and preliminary crystallographic analysis of a tetrameric isolectin from *Vicia villosa*, specific for the Tn antigen. *J. Mol. Biol.* 230:670-672 (1993)
- Hansen, J-E., Sorensen, A., Olofsson, S., **Osinaga, E.** and Roseto, A. Combination effect on HIV infection in vitro of soluble CD4 and HIV-neutralizing antibodies. *Arch.Virology* 134:179-184 (1994)
- Sorensen, A.M., Nielsen, C., Arendrup, M., Clausen, H., Nielsen, J.O., **Osinaga, E.**, Roseto, A. and Hansen, J-E S. Neutralization epitopes on HIV pseudotyped with HTLV-I: Conservation of carbohydrate epitopes. *J. AIDS* 7:116-123 (1994)
- Osinaga, E.**, Pancino, G., Porchet, N., Berois, N., De Cremoux, P., Mistro, D., Aubert, J.P., Calvo, F. and Roseto, A. Analysis of an heterogeneous group of breast carcinoma associated glycoproteins bearing Tn determinant. *Breast Cancer Res.Treat.* 32:139-152 (1994)
- Beuzelin-Yvraut, M., Bourguignat, A., Phillips, E., Roseto, A. and **Osinaga, E.** Immunocytological analysis of the Tn-associated antigen (83D4) in serous effusions from patients with cancer: comparison with Tn soluble glycoprotein. *J. Clin. Pathology* 48:433-437 (1995)
- Osinaga, E.**, Babino, A., Grosclaude, J., Cairoli, E., Batthyany, C., Bianchi, S., Signorelli, S., Varangot, M., Musé, I. and Roseto, A. Development of an immuno-lectin-enzymatic assay for the detection of serum carcinoma-associated glycoproteins bearing Tn determinant. *Int. J. Oncology* 8:401-406 (1996)
- Osinaga, E.**, Tello, D., Batthyany, C., Bianchet, M., Tavares, G., Durán, R., Cerveñansky, C., Camoin, L., Roseto, A. and Alzari, P. Amino acid sequence and three-dimensional structure of the Tn-specific isolectin B4 from *Vicia villosa*. *FEBS Letters* 412:190-196 (1997)
- Bay, S., Lo-Man, R., **Osinaga, E.**, Nakada, H., Leclerc, C. and Cantacuzène, D. Preparation of a multiple antigen glycopeptide (MAG) carrying the Tn antigen. A possible approach to a synthetic carbohydrate vaccine. *J. Peptide Res.* 49:620-625 (1997).
- Berois, N., Varangot, M., **Osinaga, E.**, Babino, A., Caignault, L., Musé, I. and Roseto, A. Detection of rare human breast cancer cells. Comparison of an

- immunomagnetic separation method with immunocytochemistry and RT-PCR. *Anticancer Res.* 17:2639-2646 (1997)
- Babino, A., Pritsch, O., Oppezzo, A., Du Pasquier, R., Roseto, A., **Osinaga, E.** and Alzari, P. Molecular cloning of a monoclonal anti-tumor antibody specific for the Tn antigen and expression of an active single-chain Fv fragment. *Hybridoma* 16:317-324 (1997)
- Medeiros, A., Bianchi, S., Calvete, J.J., Balter, H., Bay, S., Robles, A., Cantacuzène, D., Nimtz, M., Alzari, P.M. and **Osinaga, E.** Biochemical and functional characterization of the Tn-specific lectin from *Salvia sclarea* seeds. *Eur. J. Biochem.* 267:1434-1440 (2000)
- Osinaga, E.**, Bay, S., Tello, D., Babino, A., Pritsch, O., Assemat, K., Cantacuzene, D., Nakada, H. and Alzari, P. Analysis of the fine specificity of Tn-binding proteins using synthetic glycopeptide epitopes and a biosensor based on surface plasmon resonance spectroscopy. *FEBS Letters* 469:24-28 (2000)
- Berois, N., Varangot, M., Aizen, B., Estrugo, R., Zarantonelli, L., Fernández, P., Krygier, G., Simonet, F., Barrios, E., Musé, I. and **Osinaga, E.** Molecular detection of cancer cells in bone marrow and peripheral blood of patients with operable breast cancer. Comparison of CK19, MUC1 and CEA using RT-PCR. *Eur. J. Cancer* 36:717-723 (2000)
- Babino, A., Oppezzo, P., Bianco, S., Barrios, E., Berois, N., Navarrete, H. and **Osinaga, E.** Tn antigen is a pre-cancerous biomarker in breast tissue and serum in N-Nitrosomethylurea-induced rat mammary carcinogenesis. *Int. J. Cancer* 86:753-759 (2000)
- Oppezzo, P., **Osinaga, E.**, Tello, D., Bay, S., Cantacuzene, D., Irigoín, F., Ferreira, A., Roseto, A., Cayota, A., Alzari, P. and Pritsch, O. Production and functional characterization of two mouse/human chimeric antibodies with specificity for the tumor-associated Tn antigen. *Hybridoma* 19:229-239 (2000)
- Alvarez Errico, D., Medeiros, A., Miguez, M., Casaravilla, C., Malgor, R., Carmona, C., Nieto, A. and **Osinaga, E.** O-glycosylation in *Echinococcus granulosus*: identification and characterization of the carcinoma associated Tn antigen. *Exp. Parasitology* 98:100-109 (2001)
- Savio, E., Gaudiano, J., Robles, A., Balter, H., Paolino, A., López, A., Hermida, J., De Marco, E., Martínez, G., **Osinaga, E.** and Knapp, F. Re-HEDP: pharmacokinetic characterization, clinical and dosimetric evaluation in osseous metastatic patients with two levels of radiopharmaceutical dose. *BMC Nuclear Medicine* 1:2 (2001)
- Freire, T. and **Osinaga, E.** Immunological and biomedical relevance of the Tn antigen. *Inmunología (España)* 22:27-38 (2003)
- Berois, N., Varangot, M., Sónora, C., Zarantonelli, L., Pressa, C.; Laviña, R., Rodríguez, J.L., Delgado, F., Porchet, N., Aubert, J.P. and **Osinaga, E.** Detection of bone marrow-disseminated breast cancer cells using a RT-PCR assay of MUC5B mRNA *Int. J. Cancer* 103:550-555 (2003)
- Freire, T., Casaravilla, C., Carmona, C. and **Osinaga, E.** Mucin type O-glycosylation in *Fasciola hepatica*: characterization of carcinoma associated Tn and sialyl-Tn antigens and evaluation of UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase activity. *Int. J. Parasitology* 33:47-56 (2003)
- Babino, A., Tello, D., Rojas, A., Bay, S., **Osinaga, E.** and Alzari, P. The crystal structure of a plant lectin in complex with the Tn antigen. *FEBS Letters* 536:106-110 (2003)

- Freire, T., Medeiros, A., Reis, C., Real, F.X. and **Osinaga, E.** Biochemical characterization of soluble Tn glycoproteins from malignant effusions of patients with carcinomas. *Oncology Reports* 10:1577-85 (2003)
- Casaravilla, C., Freire, T., Malgor, R., Medeiros, A., **Osinaga, E.** and Carmona, C. Mucin-Type O-Glycosylation in helminth parasites from major taxonomic groups: evidence for widespread distribution of the Tn Antigen (GalNAc-Ser/Thr) and identification of UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase activity. *J. Parasitology* 89:709-715 (2003)
- Freire, T., Robello, C., Soule, S., Ferreira, F. and **Osinaga, E.** Sialyl-Tn antigen expression and O-linked GalNAc-Thr synthesis by *Trypanosoma cruzi*. *Biochem Biophys Res Commun.* 312:1309-1316 (2003)
- Hill, M., Bausero, M., Mazal, D., Ménoret, S., Khalife, J., Anegón, I. and **Osinaga, E.** Immunological characterization of N-nitrosomethylurea-induced rat breast carcinomas: tumoral IL-10 expression as a possible immune escape mechanism. *Breast Cancer Res. Treat.* 84:107-116 (2004)
- Medeiros, A., Berois, N., Balter, H., Robles, A., Perez-Payá, E., Jiménez, A., Calvete, J. and **Osinaga, E.** Monoclonal antibodies against the Tn-specific isolectin B4 from *Vicia villosa* seeds. Characterization of the epitope of the blocking antibody VV34. *Hybridoma and Hybridomics* 23:39-44 (2004)
- Freire, T., Fernandez, C., Chalar, C., Maizels, R.M., Alzari, P.M., **Osinaga, E.** and Robello, C. Characterization of a UDP-N-Acetyl-D-galactosamine:Polypeptide N-Acetyl-galactosaminyl-transferase with an unusual lectin domain from the platyhelminth parasite *Echinococcus granulosus*. *Biochemical Journal* 382:501-510 (2004)
- Bausero, M., Page, D.T., **Osinaga, E.** and Asea, A. Surface expression of Hsp25 and Hsp72 differentially regulates tumor growth and metastasis. *Tumor Biology* 25:243-251 (2004)
- Berriel, E., Hill, M., Barcia, J.J., Ubillos, L., González, M., Detjen, G., Rondán, M., Navarrete, H. and **Osinaga, E.** Simple mucin-type cancer associated antigens are pre-cancerous biomarkers during 1,2-dimethylhydrazine-induced rat colon carcinogenesis. *Oncology Reports* 14:219-228 (2005)
- Medeiros, A., Plá, A., Alonso Paz, E., Batista-Viera, F., **Osinaga, E.** and Franco Fraguas, L. Identification of a high molecular weight glycoconjugate from Uruguayan plant which binds to the tumor-associated Tn antigen. *Pharmaceutical Biology* 43:26-32 (2005)
- Varangot, M., Barrios, E., Sónora, C., Aizen, B., Pressa, C., Estrugo, R., Laviña, R., Musé, I., **Osinaga, E.** and Berois, N. Clinical evaluation of a panel of mRNA markers in the detection of disseminated tumor cells in patients with operable breast cancer. *Oncology Reports* 14:537-545 (2005)
- Freire, T., Bay S, von Mensdorff-Pouilly S and **Osinaga, E.** Molecular basis of incomplete O-glycan synthesis in breast cancer cells: putative role of MUC6 in Tn antigen expression. *Cancer Research* 65: 7880-7887 (2005)
- Hill, M.; Pereira, V.; Chauveau, C.; Zagani, R.; Remy, S.; Tesson, L.; Mazal, D.; Ubillos, L.; Moffett, J.; Doebis, C.; Seifert, M.; Boczkowski, J.; **Osinaga, E.** and Anegón, I. Heme oxygenase-1 inhibits rat and human breast cancer cells proliferation: mutual cross-inhibition with indoleamine 2,3-dioxygenase *FASEB Journal* 19:1957-1968 (2005)
- Sónora, S; Mazal, D; Berois, N; Buisine, MP; Ubillos, L; Varangot, M; Barrios, E; Carzoglio, J; Aubert, JP and **Osinaga, E.** Immunohistochemical analysis of

- MUC5B apomucin expression in breast cancer and non malignant breast tissues. *J. Histochem. Cytochem.* 54:289-299 (2006)
- Berois N., Mazal D., Ubillos L., Trajtenberg F., Nicolas A., Sastre-Garau, X., Magdelenat H. and **Osinaga E.** UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyl transferase-6 as a new immunohistochemical breast cancer marker. *J. Histochem. Cytochem.* 54:317-328 (2006)
- Freire T, Berois N, S  nora C, Varangot M, Barrios E and **Osinaga E.** UDP- N-acetyl-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (ppGalNAc-T6) mRNA as a potential new marker for detection of bone marrow-disseminated breast cancer cells. *Int. J. Cancer* 119 :1383 - 1388 (2006)
- Berois N., Blanc E., Ripoche H., Mergui X., Trajtenberg F., Cantais S, Valteau-Couanet D., Dessen P., K  gedal B., B  nard J., **Osinaga E.** and Ragu  nez G. ppGalNAc-T13: a new molecular marker of bone marrow involvement in neuroblastoma. *Clinical Chemistry* 52:1701-1712 (2006)
- Ubillos L, Medeiros A, Cancela M, Casaravilla C, Salda  a J, Dom  nguez L, Carmona C, Le Pendu J and **Osinaga, E.** Characterization of the carcinoma associated Tk antigen in helminth parasites *Exp. Parasitology* 116:129-136 (2007)
- Osinaga E.** Expression of cancer-associated simple mucin-type O-glycosylated antigens in parasites. Critical review. *IUBMB Life* 59:269-73 (2007)
- Medeiros A, Chiribao ML, Ubillos L, Festari MF, Salda  a J, Robello C, Dom  nguez L, Calvete JJ and **Osinaga E.** Mucin-type O-glycosylation in *Mesocestoides vogae* (syn. corti). *Int. J. Parasitology* 38:265-76 (2008)
- Croci D, Cognoa I, Rumie Vittara N, Salvatierra E, Trajtenberg F, Podhajcer O, **Osinaga E**, Rabinovich G and Rivarola V. Silencing survivin gene expression promotes apoptosis of human breast cancer cells through a caspase-independent pathway. *J. Cell. Biochem.* 105:381-90 (2008)
- Gomes J, Marcos NT, Berois N, **Osinaga E**, Magalh  es A, Pinto-de-Sousa J, Almeida R, G  rtner F and Reis CA. Expression of UDP-N-acetyl-D-galactosamine: Polypeptide N-acetylgalactosaminyltransferase-6 in gastric mucosa, intestinal metaplasia, and gastric carcinoma. *J. Histochem. Cytochem.* 57:79-86 (2009)
- Robles A, Medeiros A, Berois N, Balter H, Pauwels E and **Osinaga E.** In site interaction evaluation of Tn density by inhibition/competition assays. *Nuclear Medicine and Biology* 37:453-8 (2010)
- Hill M, Mazal D, Biron V, Pereira L, Ubillos L, Berriel E, Ahmed H, Freire T, Rond  n M, Vasta GR, Liu FT, Iglesias MM and **Osinaga E.** A novel clinically-relevant animal model to study galectin-3 and its ligands during colon carcinogenesis. *J. Histochem. Cytochem.* 58:553-65 (2010)
- Hubert P, Heitzmann A, Viel S, Nicolas A, Sastre-Garau X, Oppezzo P, Pritsch O, **Osinaga E** and Amigorena S. Antibody-dependent cell cytotoxicity synapses form in mice during tumor-specific antibody immunotherapy. *Cancer Research* 71:5134-43 (2011)
- Chiribao M, Libisch G, **Osinaga E**, Parodi A and Robello C. Cloning, localization and differential expression of the Trypanosoma cruzi TcOGNT-2 glycosyltransferase gene. *Gene* 498:147-54 (2012)
- Freire T and **Osinaga E.** The sweet-side of cancer immunotherapy. *Immunotherapy*; 4:719-34 (2012)
- Medeiros A, Berois N, Incerti M, Bay S, Franco Fraguas L and **Osinaga E.** A Tn antigen binding lectin from *Myrsine coriacea* displays toxicity on human cancer cell lines. *J Natural Med* 67:247-54 (2013)

- Berois N, Gattolliat C-H, Barrios E, Capandeguy L, Douc-Rasy S, Valteau-Couanet D, Bénard J and **Osinaga, E.** *GALNT9* gene expression is a prognostic marker in neuroblastoma patients. *Clinical Chemistry* 59:225-233 (2013)
- Dalotto-Moreno T, Croci DO, Cerliani JP, Martinez-Allo VC, Dergan-Dylon S, Mendez Huergo SP, Stupirski JC, Mazal D, **Osinaga E**, Toscano MA, Sundblad V, Rabinovich GA, Salatino M. Targeting galectin-1 overcomes breast cancer associated immunosuppression and prevents metastatic disease. *Cancer Res.* 73:1107-17 (2013)
- Berois N, De Cremoux P, Mazal D, Sica A, Cedeira M, Caserta B, Barrios E, **Osinaga E** and Sastre-Garau X. Prevalence and distribution of high-risk human papillomavirus genotypes in invasive carcinoma of the uterine cervix in Uruguay. *Int. J. Gynecol. Cancer* 23:527-532 (2013)
- Mazal D, Lo-Man R, Bay S, Pritsch O, Dériaud E, Ganneau C, Medeiros A, Ubillos L, Obal G, Berois N, Bollati-Fogolin M, Leclerc C and **Osinaga E.** Monoclonal antibodies toward different Tn-amino acid backbones display distinct recognition patterns on human cancer cells. Implications for effective immunotargeting of cancer. *Cancer Immunol. Immunother.* 62:1107-22 (2013)
- Noya V, Bay S, Festari MF, García E, Rodríguez E, Chiale C, Ganneau C, Baleux F, Astrada S, Bollati-Fogolin M, **Osinaga E** and Freire T. Mucin-like peptides from *Echinococcus granulosus* induce antitumor activity. *Int. J. Oncology* (2013, en prensa)
- Berriol E, Russo S, Monin L, Festari MF, Berois N, Fernández G, Freire T and **Osinaga E.** Anti-tumor activity of human hydatid cyst fluid in a murine model of colon cancer. *The Scientific World Journal* 2013:230176 (2013)
- Libisch G, Casás M, Chiribao ML, Moreno P, Cayota A, **Osinaga E**, Oppezzo P and Robello C. GalNAc-T11 as a potential new molecular marker in chronic lymphocytic leukemia. *Gene* 533:270-9 (2014)
- Berois N, Heard I, Fort Z, Alonso R, Sica A, Moerzinger P, PPCCU, Rodríguez G, Sancho-Garnier H, **Osinaga E** and Favre M. Prevalence of type-specific HPV infection in Uruguay. *J. Med. Virol.* (2013, en prensa)

### **B) Capítulos de libros.**

- Osinaga E**, Cairoli E, Batthyany C, Bianchi S, Beuzelin M, Phillips E and Roseto A. Comparison of three lectin based methods to detect Tn soluble carcinoma-associated glycoproteins. *Lectins, Biology, Biochemistry and Clinical Biochemistry. Editado por Van Driessche, E.; Rougé, P.; Beeckmans, T. and Bog-Hansen. T.C. Textop, Hellerup (Denmark) Vol. 11:316-320 (1996)*
- Osinaga E.** Impacto del desarrollo de las biociencias en salud humana. Planteo de nuevas problemáticas. En: "Bioética, compromiso de todos". DIRAC. Ediciones Trilce. Montevideo, Uruguay. Capítulo 7. pp:99-106 (2003)
- Osinaga E.** Mucins. En: Encyclopedia of Cancer, 2<sup>nd</sup> Edition. M. Schwab (Ed.), Springer-Verlag GmbH, Heidelberg ISBN: 978-3-540-47648-1 (2008)

### **C) Revistas arbitradas de circulación local y regional.**

- Cammay, H.; **Osinaga, E.**; Marquillo, C.; Larre Borges, A. y Puppi, R. Valores de actividades enzimáticas en suero de pacientes portadores de neoplasias malignas digestivas. Su relación con la actividad biológica tumoral y el grado

- clínico de extensión lesional. *Anales de la Facultad de Medicina (Uruguay)* 4:147 (1981)
- Osinaga, E.**; Larre Borges, A.; Puppi, R.; Cayota, A.; Pacheco, R.; Heuguerot, C.; Mut, F.; Lago, G.; Martínez, S. y Touya, E. Valor de la gamma-glutamyltranspeptidasa en el diagnóstico de las metástasis hepáticas. Su correlación con la centellografía. *Anales de la Facultad de Medicina (Uruguay)* 5:53 (1983)
- Larre Borges, A.; Sosa, S.; **Osinaga, E.**; Larre Borges, P.; y Puppi, R. Componentes monoclonales en pacientes con carcinomas digestivos. *Revista Uruguaya de Patología Clínica* 19:47 (1983)
- Montes, J.; **Osinaga, E.** y Gallo, J. Gamma-glutamyl transpeptidasa en plasma seminal humano. *Acta Bioquímica Clínica Latinoamericana* 21:313 (1987)
- Osinaga, E.**; Cayota, A.; Babino, A.; Pritsch, O.; Rodríguez, D.; Sans, A. y Robello, C. Estadificación preoperatoria del cáncer colo-rectal mediante la asociación de cuatro marcadores tumorales. *Acta Bioquímica Clínica Latinoamericana* 22:521 (1988)
- Varangot, M.; Berois, N.; Musé, I. y **Osinaga, E.** Nuevos conceptos en la evaluación de las pacientes con carcinoma mamario. *Archivos de Medicina Interna* 17:89-97 (1995)
- Detjen, G., Filella, X., Fernández, P., Varangot, M., Molina, R., Ballesta, A.M., Musé, I. and **Osinaga, E.** Detection of Tn antigen in serum of patients with gastrointestinal cancer. *South-American Journal of Cancer* 2:90-94 (1998)
- Freire, T., Robello, C., Casaravilla, C., Alvarez Errico, D., Medeiros, A., Carmona, C. y **Osinaga, E.** Antígenos mucínicos de O-glicosilación simple: nuevas similitudes moleculares entre células cancerosas y parásitos. *Actas de Fisiología (Uruguay)* 8:89-107 (2002)

## PATENTES

- Babino, A.; **Osinaga, E.** and Barbera-Guillem, E.  
Compositions for detecting and surgically removing lymphoid tissue involved in tumor progression  
*United States Patent 3.365.124 (2002)*
- Osinaga, E.**; Freire, T.; Berois, N.; Magdelenat, H. and Sastre-Garau, X.  
UDP-N-Acetyl-D-galactosamine : polypeptide N-acetylgalactosaminyltransferase 6 (ppGalNAc-T6) mRNA or peptide as a new marker for detection of cancer cells.  
*European Patent WO 2006/013474 (2006)*
- Hubert-Haddad P, Amigorena S, Sastre-Garau X, **Osinaga E**, Pritsch O, Oppezzo P, Perez F, Moutel S. An antibody specific for the Tn antigen for the treatment of cancer.  
*European Patent WO/2009/007222 (2009)*
- Berois N, Touya D, Varangot M and **Osinaga E.**  
A novel method to detect resistance to chemotherapy in patients with lung cancer.  
*PCT International Application PCT/US2013/051904 (2013)*