



Ronell Bologna-Molina
DDS, Ph.D,

Current appointment:

Full Time Professor Specialist in Oral Pathology and Medicine

Institution/ University where currently appointed:

Pathology Department, Molecular Pathology area, Faculty of Dentistry, Universidad de la Republica (UDELAR), URUGUAY

Areas of special interests:

Odontogenic Tumors, Oral Cancer, Immunohistochemistry, Molecular Biomarkers

Ronell Bologna-Molina finished his studies as Dental Surgeon at Universidad Nacional Autónoma de México (UNAM) in 1996. In the year 2000 he became a Doctor in Dental Sciences at Universidad de la República del Uruguay (Udelar). In 2004 he completed the residency on Oral Pathology and Oral Medicine at the Universidad Autónoma Metropolitana in Mexico City and in 2009 he completed the Doctorate in Biological Sciences (Molecular Pathology area) at the same university. In 2017 finished his postdoctoral studies working with the Iwate Medical University (Japan) group in the field of odontogenic tumors. He occupied diverse academic positions at three universities in Mexico, specifically, at UAM, Universidad de Guadalajara (UDeG) and as fulltime professor of Oral Pathology, chief of the Research Department, founder/coordinator of the Master Degree Program in Stomatology at Universidad Juárez del Estado de Durango. At present, he is full-time professor at the Molecular Pathology area at the Faculty of Dentistry at the Universidad de la República (UDELAR), in Uruguay. He is a senior researcher (level II) at the SNI-ANII, (National Research System- National Agency for Research and Innovation), in Uruguay. He is Oral Diseases Associate Editor and member of the editorial board at *Medicina Oral, Patología Oral y Cirugía Bucal*, and at the *Journal of Clinical and Experimental Dentistry*, among other scientific journals. Dr Bologna has published over 100 scientific papers, has written one book and has participated collaboratively on the writing of some book chapters. In the period between 2012-2015 and 2018-2021 he held the position of Councillor for North and Central America in the Ibero-American Academy of Oral Pathology and Oral Medicine

(AIPMB). His main research interest is in odontogenic tumors, head-and-neck cancer and new biomarkers.

Recent/ significant publications

- López-Verdín S, Lavalle-Carrasco J, Carreón-Burciaga RG, Serafín-Higuera N, Molina-Frechero N, González-González R, Bologna-Molina R. Molecular Markers of Anticancer Drug Resistance in Head and Neck Squamous Cell Carcinoma: A Literature Review. *Cancers (Basel)*. 2018 Oct 10;10(10). pii: E376.
- Bologna-Molina R, Ogawa I, Mosqueda-Taylor A, Takata T, Sánchez-Romero C, Villarroel-Dorrego M, Takeda Y, Mikami T- Detection of MAPK/ERK pathway proteins and KRAS mutations in Adenomatoid Odontogenic Tumors. *Oral Dis*. 2018 Oct 8. doi: 10.1111/odi.12989
- Brito-Mendoza L, Bologna-Molina R, Irigoyen-Camacho ME, Martinez G, Sánchez-Romero C, Mosqueda-Taylor A. A Comparison of Ki67, Syndecan-1 (CD138), and Molecular RANK, RANKL, and OPG Triad Expression in Odontogenic Keratocysts, Unicystic Ameloblastoma, and Dentigerous Cysts. *Dis Markers*. 2018 Jul 29;2018:7048531.
- Gómez-Herrera Z, Molina-Frechero N, Damián-Matsumura P, González-González R, Farfán-Morales JE, Bologna-Molina R. Expression of proteoglycans in two types of ameloblastoma: novel Immunohistochemical findings. *J Biol Regul Homeost Agents*. 2018 May-Jun;32(3):479-487
- Mikami T, Bologna-Molina R, Mosqueda-Taylor A, Ogawa I, Pereira-Prado V, Fujiwara N, Pires FR, Carlos R, Takata T, Takeda Y. Pathogenesis of primordial odontogenic tumour based on tumourigenesis and odontogenesis.. *Oral Dis*. 2018 Oct;24(7):1226-1234.
- Carreón-Burciaga RG, González-González R, Molina-Frechero N, López-Verdín S, Pereira-Prado V, Bologna-Molina R. Differences in E-Cadherin and Syndecan-1 Expression in Different Types of Ameloblastomas.. *Anal Cell Pathol (Amst)*. 2018 Apr 23;2018:9392632
- Apellániz D, Pereira-Prado V, Sicco E, Vigil-Bastitta G, González-González R, Mosqueda-Taylor A, Molina-Frechero N, Hernandez M, Sánchez-Romero C, Bologna-Molina R. Comparative Study of the Minichromosome Maintenance Proteins Complex (MCM 4/5/6) in Ameloblastoma and Unicystic Ameloblastoma. *Int J Surg Pathol*. 2018 May 1:1066896918778341
- Gómez-Herrera Z, Molina-Frechero N, Damián-Matsumura P, Bologna-Molina R. Proteoglycans as potential biomarkers in odontogenic tumors. *J Oral Maxillofac Pathol*. 2018 Jan-Apr;22(1):98-103.
- González-Galván MC, Mosqueda-Taylor A, Bologna-Molina R, Setien-Olarrá A, Marichalar-Mendia X, Aguirre-Urizar JM. Evaluation of the osteoclastogenic process associated with RANK / RANK-L / OPG in odontogenic myxomas. *Med Oral Patol Oral Cir Bucal*. 2018 May 1;23(3):e315-e319
- Mancheno-Valencia A, Bologna-Molina RE, Toussaint-Caire S, Vega-Memije ME, Cuevas-González JC. Expression of E-cadherin, syndecan 1, Ki-67, and maintenance minichromosome 3 in tissue lesions of actinic prurigo obtained by incisional biopsy.. *Indian J Pathol Microbiol*. 2018 Apr-Jun;61(2):225-227.
- Zeballos R, Bologna-Molina R, Pereira-Prado V, Villarroel-Dorrego M . Expression of parathyroid hormone related protein (PTHrP) in ameloblastomas.. *J Clin Exp Dent*. 2018 Feb 1;10(2):e172-e176.
- Bologna-Molina R, Mikami T, Pereira-Prado V, Tapia-Repetto G, Pires FR, Carlos R, Mosqueda-Taylor A. Primordial odontogenic tumor: Subepithelial expression of Syndecan-1 and Ki-67 suggests origin during early odontogenesis. *Oral Dis*. 2018 Mar;24(1-2):72-77.
- Bologna-Molina R, Pereira-Prado V, Sánchez-Romero C, Tapia-Repetto G, Soria S, Hernandez M, González-González R, Molina-Frechero M, Mikami T. Expression of hMLH1 and hMSH2 proteins in ameloblastomas and tooth germs. *Med Oral Patol Oral Cir Bucal*. 2018 Mar 1;23(2):e126-e131.

- Sandoval-Basilio J, González-González R, Bologna-Molina R, Isiordia-Espinoza M, Leija-Montoya G, Alcaraz-Estrada SL, Serafín-Higuera I, González-Ramírez J, Serafín-Higuera N. Epigenetic mechanisms in odontogenic tumors: A literature review. *Arch Oral Biol.* 2018 Mar;87:211-217
- Villarroel-Dorrego M, Romero ME, Reyes O, Pereira-Prado V, Bologna-Molina R. Study of Apoptosis and Intercellular Adhesion in Oral Mucosa of Patients With Osteonecrosis Induced by Biphosphonates. *Reumatol Clin.* 2017 Nov 10. pii: S1699-258X(17)30253-X
- Mikami T, Ohashi Y, Bologna-Molina R, Mosqueda-Taylor A, Fujiwara N, Tsunoda N, Yamada H, Takeda Y. Primordial Odontogenic Tumor: A case report with histopathological analyses. *Pathol Int.* 2017 Dec;67(12):638-643
- López-Verdín S, Soto-Avila JJ, Zamora-Perez AL, Lazalde-Ramos BP, Martínez-Fierro ML, González-González R, Molina-Frechero N, Isiordia-Espinoza MA, Bologna-Molina R. Patients with advanced oral squamous cell carcinoma have high levels of soluble E-cadherin in the saliva. *Med Oral Patol Oral Cir Bucal.* 2017 Nov 1;22(6):e694-e70
- Bologna-Molina R, Mikami T, Pereira-Prado V, Pires FR, Carlos-Bregni R, Mosqueda-Taylor A. Primordial odontogenic tumor: An immunohistochemical profile. *Med Oral Patol Oral Cir Bucal.* 2017 May 1;22(3):e314-e323
- Bologna-Molina R, Takeda Y, Kuga T, Chosa N, Kitagawa M, Takata T, Ishisaki A, Mikami T. Expression of Wilms' tumor 1 (WT1) in ameloblastomas. *J Oral Sci.* 2016;58(3):407-13
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- Sánchez-Romero C, Bologna-Molina R, Mosqueda-Taylor A, Paes de Almeida O. Immunohistochemical Expression of GLUT-1 and HIF-1 α in Tooth Germ, Ameloblastoma, and Ameloblastic Carcinoma. *Int J Surg Pathol.* 24(5):410-8, 2016
- Sánchez-Romero C, Bologna-Molina R, Mosqueda-Taylor A, de Almeida OP. Immunohistochemical expression of podoplanin (D2-40), lymphangiogenesis, and neoangiogenesis in tooth germ, ameloblastomas, and ameloblastic carcinomas. [Epub ahead of print] *J Oral Pathol Med.* 2016.
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- Del Carmen González-Galván M, Aguirre-Urizar JM, Bologna-Molina R, Farfán-Morales JE, Gainza-Cirauqui ML, Marichalar-Mendia X, Mosqueda-Taylor A. Assessment of CD-105 as an Angiogenic Modulator in Odontogenic Myxomas and Dental Follicles. *Int J Surg Pathol.* 24(4):315-9, 2016
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- Bologna-Molina R, Mosqueda-Taylor A, Molina-Frechero N. Differential expression of glypican-1 in ameloblastoma variants. *Appl Immunohistochem Mol Morphol.* 23(2):153-60 2015