



**D.Sc. Clara Patricia Ríos Ibarra**

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D. Sc. Clara Patricia Ríos Ibarra obtained her Degree in Chemical Pharmacobiology. University Center of Exact Sciences and Engineering. University of Guadalajara (1998-2003). In 2006 she obtained a degree in Master of Science with a terminal orientation in Molecular Biology and Genetic Engineering. School of Medicine. Autonomous University of Nuevo León and the Doctorate in Sciences with terminal orientation in Molecular Biology and Genetic Engineering. School of Medicine. Autonomous University of Nuevo León (2007-2011).

She is currently member of the National Researcher System Level 1 Researcher.

Dr. Sc. Ríos is a Member of the Mexican Academy of Sciences (AMC).

Most recent publications:

- Quantification of Nitric Oxide by HPLC-Fluorometric Method in a Subgenomic HCV-replicon expressing Huh7 cells upon treatment with Acetylsalicylic Acid. Rios-Ibarra CP, Torres-De La Cruz V, Ochoa-Ruiz AG, Rivas-Estilla AM. *Experimental and Therapeutic Medicine*, 2018; Aceptado.
- Microsatellite Instability and Protein Expression of the MLH1 and MSH2 Genes in Young Mexican Patients less than 50 Years of Age Diagnosed with Colorectal Cancer. A Quintanilla-Guzman, A Luevano-Gonzalez, AN Rangel-Gomez, A Rojas-Martinez, R Garza-Guajardo, O Barboza-Quintana, J Ancer-Rodriguez, CP Rios-Ibarra, R Ortiz-Lopez. *The International Journal of Clinical and Experimental Pathology*. 2018; Aceptado.
- TS-VNTR genotype in mexican colon cancer patients treated with 5-fluouracil. Rios-Ibarra CP, Rodriguez-Silva CJ, López-Chuken YA, Ortiz-Lopez R, Fernandez-Castillo E, Del Toro Runzer CB, Armenta-Perez VP, Flores-Gutierrez JP, Quintanilla-Guzman A, Salinas-Santander M, Gonzalez-Guerrero JF, Bosques-Padilla F, Santos A, Martinez-Rodriguez HG. *The Official Journal of Balkan Union of Oncology*, 2016; 21(4): 935-940.
- Inverse Relationship of the CMKLR1 Relative Expression and Chemerin Serum Levels in Obesity with Dysmetabolic Phenotype and Insulin Resistance. Corona-Meraz FI, Navarro-Hernández RE, Ruíz-Quezada SL, Madrigal-Ruíz PM, Castro-Albarrán J, Chavarría-Ávila E, Guzmán-Ornelas MO,

Gómez-Bañuelos E, Petri MH, Ramírez-Cedano JI, Aguilar-Aldrete ME, Ríos-Ibarra C, Vázquez-Del Mercado M. *Mediators Inflamm.* 2016; 2016:3085390.

- The 482Ser of PPARGC1A and 12Pro of PPARG2 alleles are associated with reduction of metabolic risk factors even obesity in a Mexican-Mestizo population. Mónica Vázquez-Del Mercado, Milton-Omar Guzmán-Ornelas, Fernanda-Isadora Corona Meraz, Clara-Patricia Ríos-Ibarra, Eduardo-Alejandro Reyes-Serratos, Jorge Castro-Albarran, Sandra-Luz Ruíz-Quezada, and Rosa-Elena Navarro-Hernández. *BioMed Research International.* 2015; 2015:285491.
- Down-regulation of Inducible-Nitric Oxide Synthase (iNOS) expression is implicated in the antiviral activity of acetylsalicylic acid in HCV-expressing cells. Clara Patricia Ríos-Ibarra, Sonia Lozano-Sepúlveda, Linda Muñoz-Espinosa, Ana Rosa Rincón-Sánchez and Ana María Rivas-Estilla. *Archives of Virology.* 2014. Dec; 159(12):3321-8.
- Use of proteomic analysis tools to identify HCV-proteins down-regulated by Acetylsalicylic Acid. Adriana Sánchez-García, Clara Patricia Ríos-Ibarra, Ana Rosa Rincón-Sánchez, Rocío Ortiz-López, Aurora Garza-Juárez, Jesús Morlett-Chávez, Herminia Martínez-Rodríguez and Ana María Rivas-Estilla. *Annals of Hepatology.* 2013; 12(5): 725-732.
- Tumor necrosis factor alpha promoter-308G/A polymorphism in mexican patients with patchy alopecia areata. Cantú-Salinas C, Salinas-Santander M, Lagos-Rodríguez, Sánchez-Domínguez, Ríos-Ibarra CP, Ortiz-López R, Welsh-Lozano O, Ocampo-Candiani O. *International Journal of Dermatology.* 2012 May; 51(5):571-5.
- Cu/Zn superoxide dismutase (SOD1) induction is implicated in theantioxidative and antiviral activity of acetylsalicylic acid in HCV expressing cells. Ana María Rivas-Estilla, Owen Lloyd Bryan-Marrugo, Karina Trujillo-Murillo, Diana Pérez-Ibave, Claudia Charles-Niño, Cesar Pedroza-Roldan, Clara Ríos-Ibarra, Eda Ramírez-Valles, Rocío Ortiz-López, María Cristina Islas-Carbajal, Natalia Nieto, Ana Rosa Rincón-Sánchez. *American Journal of Physiology- Gastrointestinal and Liver Physiology.* 2012. Jun 1;302(11):G1264-73.
- Absolute quantification of different genotypes of Hepatitis C virus RNA in clinical samples by a modified real-time PCR method. Karina del Carmen Trujillo-Murillo, Diana Cristina Pérez-Ibave, Clara Patricia Ríos-Ibarra, Eda Guadalupe Ramírez-Valles, Ana Rosa Rincón-Sánchez, Ana María Rivas-Estilla. *LabMedicine.* 42(6), 2011.
- Fatal human case of West Nile disease, Mexico, 2009. Rios-Ibarra C, Blitvich BJ, Farfán-Ale J, Ramos-Jimenez J, Muro-Escobedo S, Martínez-Rodríguez HR, Ortiz-López R, Torres-López E, Rivas-Estilla AM. *Emerg Infect Dis.* 2010 Apr;16(4):741-3.
- Isolation and characterization of the first West Nile Virus (WNV) human case with neuroinvasive disease in Mexico. Rivas-Estilla, A.M., Rios-Ibarra, C.P., Ortiz-López, R. and Ramos-Jiménez, J. (2009).

GenBank: GQ478869.1 (104bp, mRNA capsid protein, WNV)

GenBank: GQ478870.1 (216pb, mRNA protein E, WNV)

GenBank: ACZ28779.1 (34aa, capsid protein, WNV)

GenBank: ACZ28780.1 (72aa, protein E, WNV)

### **Distinctions:**

- **Mexican Academy of Sciences (AMC)** -Entrance as a Regular Member (November 2017).
- **"Bernardo Sepúlveda" Prize (1st Place) -Basic Research** for work titled: "Inhibición de los biomarcadores oncológicos miR31 y miR92a en células de cáncer de colon RKO expuestas a kaempferol aislado de frijol negro ", awarded by the Mexican Association of Gastroenterology (Puebla, 2017).
- **UANL Research Award 2015.** The negative regulation of Inducible Nitric Oxide (iNOS) expression is implicated in the antiviral effect of acetylsalicylic acid on cells that express the hepatitis C virus (HCV). Category: Health Sciences. Autonomous University of Nuevo Leon, Monterrey, NL (2015).
- **Honorific mention.** Evaluation of the potential antitumor effect of the combination therapy with metformin + iRNA-PFK1 in colon cancer cells RKO. XVI International Congress Advances in Medicine, Civil Hospital of Guadalajara (2014).
- **Recognition for being the Adviser of the Best Professional Thesis.** Transcriptional analysis of the potential anti-tumor effect of metformin and RNA-PFK-1 in negative p53 HCT-15 colon cancer cells. **Project leader** Award of the Thesis Contest, during the celebration of the 10th Anniversary of the Research and Innovation Modality. Tecnológico de Monterrey, Monterrey campus (2014).
- **Magna Cum Laude** recognition. Doctoral Thesis (2011).
- Prize (**2nd Place**) to the research work entitled "Potential antiviral effect of inducible nitric oxide synthase on hepatitis C virus induced by acetylsalicylic acid". Awarded during the VII National Congress of Hepatology (2011).
- Prize (**1st Place**) to the Bernardo Sepúlveda Basic Research for the work entitled "Antiviral effect of nitric oxide on the hepatitis c virus induced by acetyl salicylic acid". Awarded by the Mexican Association of Gastroenterology (2009).
- Recognition as a **Distinguished Doctorate Student.** Awarded by the Faculty of Medicine of the Autonomous University of Nuevo León (2009).

- Prize (**1st Place**) in the State Contest of Health Research for the work entitled "Pharmacogenetic and functional analysis of the thymidylate synthase gene in gastrointestinal cancer". Awarded by the Executive Power of the State of Nuevo León (2007).

**Patents:**

- **PATENT-USPTO APPLICATION:** 31572418: "A kit to diagnose colon cancer by non-invasive detection and its method"
- **APPLICATION OF PATENT-IMPI:** MX / A / 2015/002362: "Method to reduce the expression levels of oncological markers in colon cancer cells"

**OECyTJAL PROJECTS:**

- RESPONSIBLE. Use of gold nanoparticles for the isolation of miRNAs in colon cancer cells. Code RKO: 4673-2016 (2016-2017).
- RESPONSIBLE. Quantification of miR21, miR31 and miR92 in tumor tissue and blood serum from patients with colon cancer for the implementation of a molecular diagnostic test. Code: 3238-2015 (year 2015-2016).
- RESPONSIBLE. Evaluation of the antitumor effect of metformin in colon cancer: phosphofruktokinase (PFK-1) as a therapeutic target. Code: 1742-2012 (year 2012-2013).

Website [https://www.researchgate.net/profile/Clara\\_Patricia](https://www.researchgate.net/profile/Clara_Patricia)