

# CURRICULUM VITAE

## 1. DATOS PERSONALES

**Nombre:** Gonzalo de Prat Gay

**Fecha de nacimiento:** 4 de Octubre de 1961

**Nacionalidad:** Argentina

**Domicilio particular:** Manuel Artigas 1552, Los Polvorines (1613), Provincia de Buenos Aires

Celular: 15 5420-8826

**Dirección laboral:** Fundación Instituto Leloir e Instituto de Investigaciones Bioquímicas de Buenos Aires, CONICET. Av. Patricias Argentinas 435, (1405) Buenos Aires

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## 2. FORMACIÓN ACADÉMICA

-Doctor en Ciencias Químicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires (1990). Título de la Tesis: "Estudios sobre la relación estructura-función en las enzimas cloroplásticas reguladas por la luz".

-Bioquímico, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires (1985).

## 3. EXPERIENCIA LABORAL

-*Investigador Superior*, miembro de la Carrera del Investigador del CONICET. Fundación Instituto Leloir e Instituto de Investigaciones Bioquímicas, Buenos Aires (desde Enero de 1998).

-*Pesquisador Visitante*, Programa Ciência Sem Fronteiras, Instituto de Biofísica, Universidad Federal de Rio de Janeiro (2015-2017).

*Profesor Adjunto*, Instituto de Investigaciones Bioquímicas, Area Química Biológica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires (1999-2005).

*Visiting Professor*, Department of Chemistry, University of Urbana at Champaign, U.S. (Enero de 1999).

*Profesor Adjunto*, Departamento de Bioquímica Médica, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brasil (1995-1997).

*Investigador Visitante*, Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Brasil (1995-1997).

*Científico* (non-clinical Scientist), MRC Unit for Protein Function and Design, Cambridge University Chemical Laboratory, Reino Unido (1991-1995).

*Supervisor del laboratorio de Biología Molecular*, Laboratorios Bio-Ciencia (1990).

Proyecto: Montaje de un laboratorio de Biología Molecular para Análisis Clínicos. Extracción y análisis de DNA humano y amplificación de genes o fragmentos de ADN (PCR).

*Asociado en investigación*, Instituto Leloir de Investigaciones Bioquímicas, Fundación Campomar, Buenos Aires y Tecnología Genética (1990). Proyecto: Tipificación de ADN.

*Pasantía post-doctoral*, mismo instituto (1990). Proyecto: Ingeniería genética de inmunoglobulinas.

*Tesis doctoral*, mismo instituto(1986-1990).

Título de la Tesis: "Estudios sobre la relación estructura-función en las enzimas cloroplásticas reguladas por la luz".

*Estudiante visitante*, School of Biological Sciences, Thames Polytechnic, London, U.K. (1989).  
Proyecto: Degradación de compuestos aromáticos por pseudomonas.

*Practicante de análisis clínicos*, Universidad de Buenos Aires, Hospital de Clínicas (1985).

*Asistente de laboratorio*, Instituto de Biología y Medicina Experimental (1984).

*Técnico en análisis clínicos*, Laboratorio Especializado (1981).

#### 4. BECAS

Beca Senior, Investigador Visitante Extranjero, Ciencia Sêm Fronteiras, CNPq, Brasil

Beca de Investigación "Ramón Carrillo-Arturo Oñativia 2001" del Ministerio de Salud, Argentina.

Beca de Investigación "Ramón Carrillo-Arturo Oñativia 2000" del Ministerio de Salud, Argentina.

John Simon Guggenheim, E.E.U.U. (1998-1999).

Medical Research Council, Reino Unido.(1992-1995).

Comunidad Económica Europea. (1991).

Fundación Perez Companc, Buenos Aires (1991).

Fundación Bunge & Born, Buenos Aires (1987-90).

Juan Campomar, Buenos Aires (1986-87).

Ministerio de Bienestar Social, Argentina (1986).

#### 5. SUBSIDIOS DE INVESTIGACIÓN (1998-ACTUALIDAD)

##### 29 NACIONALES (U\$ 1.428.000) Y 8 INTERNACIONALES (U\$ 1.100.000)

*-PICT categoría grupos consolidados internacionalmente , Agencia Nacional de Promocion Científica y Tecnológica (ANPCyT), (2021-2024)* Fundamentos moleculares y fisicoquímicos de la formación de condensados biomoleculares por separación de fases en el control de la transcripción y replicación en dos modelos virales. U\$ 40.000

*-PIP-Conicet (2022-2024)* Ensamblado del complejo de replicación del virus respiratorio sincicial a través de separación de fases líquido-líquido en fábrica virales: nuevo concepto de blanco terapéutico. U\$8000.

*-PICT categoría IV-A, ANPCyT, Areas científicas consolidadas internacionalmente (2021-2023).* Fundamentos moleculares y fisicoquímicos de la formación de condensados biomoleculares por separación de fases en el control de la transcripción y replicación en dos modelos virales. U\$30.000

*-Instituto Nacional del Cancer, Ministerio de Salud, Argentina (2018-2020)* Carcinogénesis por HPV: presencia, localización y distribución de marcadores virales y celulares en biopsias de cánceres orofaríngeo y cervical Desarrollo. U\$25.000.

*-PICT categoría A, Agencia Nacional de Promocion Científica y Tecnológica (ANPCyT), (2017-2019)* Disección del mecanismo de ensamblado del complejo de replicación del virus respiratorio sincicial: explorando un nuevo concepto de blanco antiviral. U\$ 20.000

*-Instituto Nacional del Cancer, Ministerio de Salud, Argentina (2016-2017),* Desarrollo de un agente terapéutico específico contra el cáncer por VPH de amplio espectro de tipos virales, U\$20.000

*-PICT categoría A, Agencia Nacional de Promocion Científica y Tecnológica (ANPCyT), (2016-2018)* Mechanism of inhibition of interferon response in the Respiratory Syncytial Virus U\$45.000

*-Instituto Nacional del Cancer, Ministerio de Salud, Argentina (2012-2013),* U\$30.000

*-PIP-Conicet, Argentina (2012-2014).* Respiratory Syncytial Virus.Caracterización del complejo ARN polimerasa del virus respiratorio sincicial humano: ensamblado, interacciones y estructuras

*-PICT categoría V, Agencia Nacional de Promocion Científica y Tecnológica (ANPCyT), (2012-2015)*

*Respiratory Syncytial Virus* U\$300.000

- Nuevas empresas de base tecnológica (Empretecno-EBT), Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT), (2011-2014), \$2.300.000 (U\$550.000)
- International Centre for Genetic Engineering and Biotechnology (ICGEB), 2011-2013 U\$S 70.000
- ANR600-ANPC (2009-2012) \$600.000 (U\$180.000)
- Subsidio PICT ANPCyT, 2007-2009, \$300.000 (U\$100.000)
- Subsidio PICT-StartUp ANPCyT, 2006-2008 \$280.000 (U\$80.000)
- The Wellcome Trust, Reino Unido, 2005-2008. U\$S 270.000.
- Universidad de Buenos Aires, Programación Científica UBACYT 2004-2007. \$ 20.000.
- Fundación Antorchas, 2004. U\$S 45.000. Subsidio para compra de equipo.
- Subsidio PICT ANPCyT, 2004-2007 \$ 210.000.
- International Centre for Genetic Engineering and Biotechnology (ICGEB), 2004-2007 U\$S 60.000
- Renessen, 2003. U\$S 5.000
- Fundación Antorchas, 2002. U\$S 8.000. Subsidio para compra de equipo.
- Fundación Antorchas, 2002. U\$S 5.000.
- The Wellcome Trust (Reino Unido), 2002-2004. U\$S 290.000.
- Subsidio PICT ANPCyT, 2002-2005 \$ 150.000.
- Subsidio para la Realización de Reuniones Científicas, ANPCyT, 2001. \$ 50.000.
- Fundación Antorchas, Subsidio de colaboración con Brasil, 2001. U\$10.000.
- Fundación Antorchas, 2001. U\$ 7.000.
- Concurso Ideas Proyecto, ANPCyT, 2001-2002. \$24.600
- Universidad de Buenos Aires, Bienal, Programación Científica UBACYT 2001-2003. \$ 8.000.
- Universidad de Buenos Aires, Proyecto Anual 1999-2000. \$ 3.000.
- The Wellcome Trust (Reino Unido), 1999-2001. U\$250.000.
- Fundación Antorchas, Subsidio de colaboración con Brasil, 1999-2000. U\$10.000.
- International Centre for Genetic Engineering and Biotechnology (ICGEB), 1999-2001. U\$60.000.
- Centro Argentino Brasileño de Biotecnología, 1999-2000. U\$28.000.
- ANPCyT, 1999-2000. U\$50.000.
- Third World Academy of Sciences, 1999. U\$5.000.
- Fundación Bunge y Born, 1997-2000. U\$60.000.
- Subsidio de Repatriación (Reentry grants) Fundación Antorchas, 1997. U\$22.000.

## 6. TECNOLOGÍA

- **Fundador de XBio S.A.**, Startup dedicado a investigación y desarrollo de vacunas y métodos diagnósticos.
- **Patente**: “Vaccine against neoplastic or cancerous lesions caused by human papillomavirus (HPV), procedures, uses and methods” 105299-4 PCT. G Prat Gay, ML Cerutti, LG Alonso, Conicet-FIL.
- **Patente** : “Método de extracción y ensamblado de cápsidas virales recombinantes de Papiloma virus humano (HPV) en E.coli”. LG Alonso y G Prat Gay, Conicet-FIL.

**7. FORMACION DE RECURSOS HUMANOS.**

**7A-TESIS DOCTORALES TERMINADAS (16)**

Año	Doctorado	Título
2021	Mariano Salgueiro	Fundamentos moleculares y fisicoquímicos de la formación de condensados biomoleculares por separación de fases en la transcripción y replicación del virus respiratorio sincial.
2021	Julieta Conci	Bases moleculares en el proceso de oligomerización del inhibidor de respuesta a interferón NS1 del virus sincial respiratorio
2019	Ivana Molina	Interacciones tripartitas en la regulación de la función génica del virus respiratorio sincial: antiterminador transcripcional M2-1, fosfoproteína P y ARN
2016	María Gabriela Noval	Proteínas virales intrínsecamente desordenadas: disección estructural de la oncoproteína E7 del viruls del papiloma humano y de la fosfoproteína P del virus sincial respiratorio
2014	Esteban Pretel	Plegamiento y equilibrios conformacionales de la proteína no-estructural NS1 del virus respiratorio sincial
2013	Marisol Fasolari	Mecanismo de reconocimiento antígeno-anticuerpo de un epítopo intrínsecamente desordenado
2012	Angeles Heer	Análisis estructural y conformacional de E6*1, un producto de procesamiento alternativo derivado de la oncoproteína E6 del papilomavirus HPV16
2011	Mariano Dellarole	E2, regulador de transcripción y replicación del papilomavirus humano: interacción con ADN, dinámica conformacional y divergencia evolutiva
2010	Clara Smal	Oligomerización de la oncoproteína E7 del papilomavirus humano y su interacción con el regulador de transcripción y replicación viral E2
2010	Lucía Chemes	La proteína supresora de tumores retinoblastoma: caracterización de su dominio AB y mecanismo de interacción con la proteína E7 del papilomavirus humano
2008	Karina Dantur	E6 y E7, las oncoproteínas del papilomavirus humano: detección y localización intracelular de los conformeros hallados en solución
2007	Santiago Sanguineti	Reconocimiento de un antígeno de ADN por su anticuerpo específico: integración mecanística, termodinámica y estructural
2006	María García Alai	Estudios conformacionales en las proteínas E2, E6 y E7 del papilomavirus humano
2005	Alejandro Nadra	Estudios estructurales en solución del factor de transcripción E2C de HPV-16 y su interacción con ADN
2005	Leonardo Alonso	Caracterización bioquímica de la oncoproteína E7 del papilomavirus humano HPV16

Año	Doctorado	Título
2003	Diego Ferreiro	Mecanismo de unión a ADN del dominio C-terminal de la proteína E2 del papilomavirus humano, principal regulador de la expresión génica viral

## 7B. OTROS RECURSOS HUMANOS

### Post-doctorales

Santiago Di Pietro, Eleonora Freire, Gabriela Camporeale, Maria Laura Cerutti, Marikena Risso, Diana Wetzler, Ignacio Sánchez, Sebastian Esperante, Lucía Chemes, Maria Julia Figueras, Mariana Holubiec

### Maestrías

Fernanda Lodeirio, Mauricio TDR Lima, Ronaldo Mohana Borges

### Tesinas

Luisa Cochela, Alejandro Nadra, María García-Alai, Paula Acialini

## 7C. POSICIONES DE COLABORADORES EN LA ACTUALIDAD

Todos los miembros del laboratorio han seguido carreras destacadas en los ámbitos tanto públicos como en empresas. El 90% de los formados en Argentina trabajan en el país, de estos, el 60% en la academia y 40% en la industria, lo que resulta una tendencia altamente positiva en lo que hace al impacto de formación de recursos humanos en la sociedad Argentina, motivo además de orgullo de nuestro laboratorio. La siguiente tabla resume las posiciones ocupadas por cada uno de los 37 en la actualidad (Noviembre de 2021)

Nombre	Cargo	Filiación
Henry Mok	Profesor Asociado	Full-Professor, Departamento de Ciencias Biológicas, Universidad de Singapur
L. Mauricio Trambaioli	Profesor Asociado	Profesor Adjunto, Laboratorio de Biotecnología Farmacéutica, Facultad de Farmacia, Universidad Federal de Rio de Janeiro
Ronaldo Mohana-Borges	Profesor Adjunto	Profesor Titular, Instituto de Biofísica, Universidad Federal de Rio de Janeiro
Diego U. Ferreiro	Investigador Adjunto Conicet	Profesor Adjunto, Departamento de Química Biológica, FCEN, UBA
Leonardo G. Alonso	Investigador Adjunto Conicet	Instituto de Nanobiotecnología, Facultad de Farmacia y Bioquímica, UBA
Fernando A. Goldbaum	Investigador Superior Conicet. Director IIB.	Instituto de Investigaciones Biotecnológicas, Universidad de San Martín.
Juan M. Centeno Crowley	Technical Field Specialist	Pall Corporation, filial Argentina
Alejandro D. Nadra	Investigador Adjunto Conicet	Profesor Adjunto, Departamento de Química Biológica, FCEN, UBA

Nombre	Cargo	Filiación
Alicia Lapeña	Bioquímica de planta	Hospital Ricardo M. Gutierrez
María García-Alai	Staff Scientist, Sample Preparation and Characterization Facility	EMBL, Hamburgo
Fernanda Lodeiro	Post-doctoral	Pennsylvania State University
Santiago Di Pietro	Profesor Asistente	Departamento de Bioquímica y Biología Molecular, Colorado State University
Clara Smal	Investigador Asistente Conicet	Jefa de Area, Química Analítica, Y-TEC YPF
Mariano Dellarole	Investigador Asistente Conicet	Instituto de Bionanociencias, Polo Tecnológico, Godoy Cruz, CABA
Marcelo Salame	Jefe de Investigación y Desarrollo	Director y Co-fundador, Alytix Biotech, Santa Fe
Diana E. Wetzler	Investigador Adjunto Conicet	Departamento de Química Biológica, FCEN, UBA
Cristian Oddo	Value & Access Manager	SANOFI, Argentina
María Laura Cerutti	Investigadora Adjunta Conicet	Inmunova, Buenos Aires
Karina Dantur	Investigadora Asistente Conicet	Operadora bursatil/trader independiente, Tucuman
Santiago Sanguinetti	Gerente General	Inmunova SA
Ignacio E. Sánchez	Investigador Adjunto Conicet, Profesor Asistente UBA FCEN	Departamento de Química Biológica, FCEN, UBA
Eleonora Freire	Investigador Asistente Conicet	Comisión Nacional de Energía Atómica, Buenos Aires
Angeles Heer	Gerente de Desarrollo Analítico	Biosidus S.A., Buenos Aires
Mariángeles Gonzalez	Analista de Desarrollo	Biosidus S.A., Buenos Aires
Lucía B. Chemes	Investigador Adjunto Conicet	IIB, Universidad de San Martin
Gabriela Camporeale	Investigador Asistente Conicet	Fundación Instituto Leloir
Sebastian Esperante	Investigador Asistente Conicet	Fundación Instituto Leloir
Marisol Fassolari	Becario Doctoral	Universidad de Mar del Plata
Esteban Pretel	Analista de Desarrollo Analítico	Biosidus SA
Marikena Risso	Investigador Asistente Conicet	Universidad de Santa Fe
M. Gabriela Noval	Becaria Postdoctoral	New York University
Silvina Borkosky	Investigador Asistente Conicet	Fundación Instituto Leloir
Ivana Molina	Profesional de planta	Laboratorio de Microbiología Clínica, Villa Dolores, Córdoba

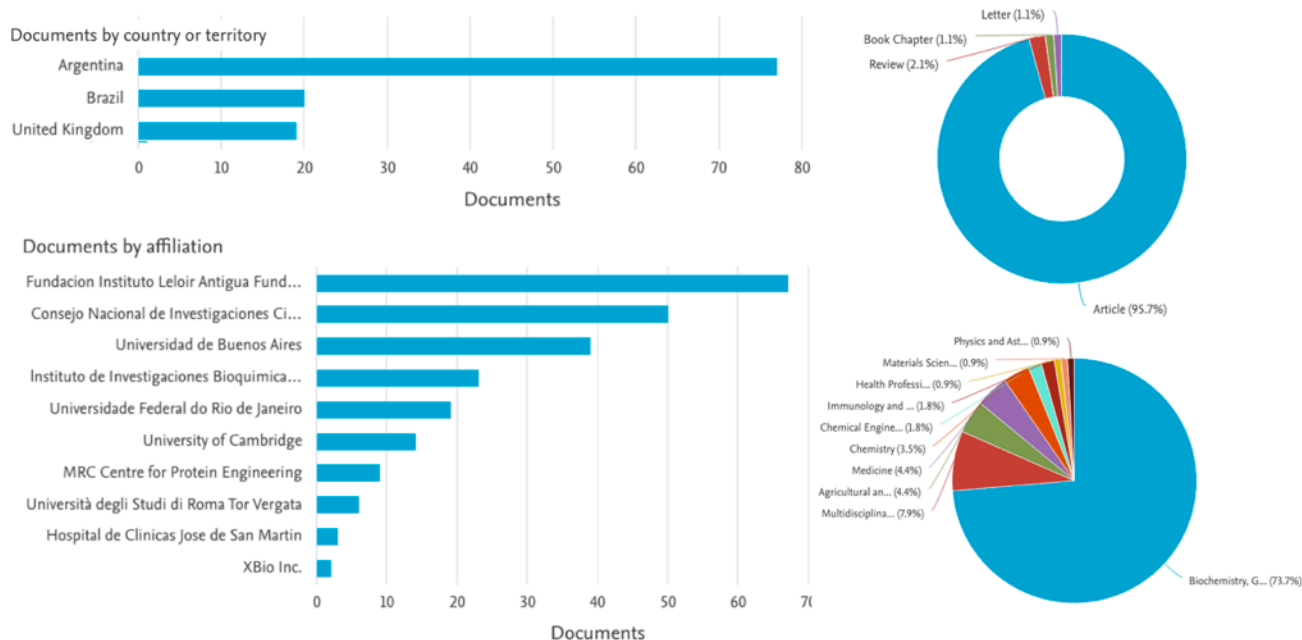
Nombre	Cargo	Filiación
Damian Alvarez Piaggi	Investigador Adjunto Conicet	Fundación Infant
Mariano Salgueiro	Becario Doctoral	Fundación Instituto Leloir
Julieta Conci	Scientífica I+D	Biosidus SA
Araceli Visentin	Becaria Doctoral	Fundación Instituto Leloir

## 8. PUBLICACIONES

106 en total, con rol protagonista en el 78%. 96 % corresponden a artículos científicos.

INDICE h = 34

-i10 index = 80 (artículos con al menos 10 citaciones)



### Años 2013-2020

106- Lopez, N.M., Camporeale, G., Salgueiro, M., Borkosky, S.S., Visentín, A., Peralta-Martinez, R., Loureiro, M.E., y Prat Gay, G. de (2021) *Deconstructing Virus Condensation*. **PLoS Pathogens**, in press.

105- Leroy, L.M.D., Barbosa, J., Prat Gay, G. de, Polikarpov, I., Pinheiro, C.B. (2020) *The structure of the extended E2DNA-binding domain of the Bovine Papillomavirus*. **PROTEINS: Structure-Function-Bioinformatics** 88, 106-112.

- 104- Alvarez Paggi, D., Esperante, S.A., Salgueiro, M., Camporeale, G., Oliveira, G.A., and Prat Gay, G. de (2019) *A conformational switch balances viral RNA accessibility and protection in a nucleocapsid ring model*. **Archives of Biochemistry and Biophysics**, **671**, 77-86. DOI: 10.1016/j.abb.2019.06.005.
- 103- Conci, J., Alvarez-Paggi, D., de Oliveira, G., Duarte Pagani, T., Esperante, SA, Borkosky, S., Aran, M., Alonso, LG, Mohana-Borges, R, Prat-Gay, G de (2019) *Conformational isomerization involving conserved proline residues modulates oligomerization of the NS1 interferon response inhibitor from the syncytial respiratory virus*. **Biochemistry, in press**.
- 102- Alvarez-Paggi D, Lorenzo JR, Camporale G, Montero L, Sánchez IE, de Prat Gay G\*, Alonso LG. (2019) *Topology dictates evolution of regulatory cysteines in a family of viral oncoproteins*. **Molecular Biology and Evolution**, doi: 10.1093/molbev/msz085, PMID:30982925
- 101- Esperante, S.E., Alvarez-Paggi, D., Salgueiro, M., Prat Gay, G. de (2018) *Mechanism of tetramer dissociation, unfolding and oligomer assembly of Pneumovirus M2-1 transcription anti-terminators*. **ACS Omega** **3**, 14732-14745. PMID:30555987
- 100- Glavina, J., Roman, E.A., Espada, R., Prat Gay, G. de, Chemes, L.B., Sanchez, I.E. (2018) *Interplay between sequence, structure and linear motifs in the adenovirus E1A hub protein*. **Virology** **525**, 117-131. PMID: 30265888
- 99- Molina, I.G., Esperante, S.E., Marino-Buslje, C., Chemes, L.B., Prat Gay, G. de (2018) *Cooperative RNA recognition by a viral transcription antiterminator*. **Journal of Molecular Biology**, **430**, 777-792. PMID: 29414675
- 98- Molina, I.G., Josts, I., Almeida Hernandez, Y., Esperante, S., Salgueiro, M., Garcia Alai, M.M. Prat-Gay, G. de\*, Tidow, H. (2018) *Structure and stability of the Human respiratory syncytial virus M2-1 RNA- binding core domain reveals a compact and cooperative folding unit*. **Acta Crystallographica F Structural Biology Communications** **74**, 23-30. PMID: 29372904
- 97- Borkosky, S.S., Camporeale, G., Chemes, L.B., Risso, M., Noval, M.G., Sanchez, I.E., Alonso, L.G., and Prat Gay, G. de (2017) *Hidden structural codes in protein intrinsic disorder*. **Biochemistry**, **56** (41), 5560-5569. PMID: 28952717
- 96- Foscaldi, S, D'Antuono, A, Noval M.G., Prat Gay, G. de, Scolaro, L, and Lopez, N. (2017) *Regulation of Tacaribe Mammarenavirus Translation: Positive 5' and negative 3' Elements and Role of Key Cellular Factors*. **Journal of Virology**, **91**(14). PMID: 28468879
- 95- Camporeale, G., Lorenzo, J.R., Thomas, M.G., Salvatierra, E., Borkosky, S.S., Risso, M.G., Sánchez, I.E., Prat Gay, G. de, Alonso, L.G. (2017) *Degenerate cysteine patterns mediate two redox sensing mechanisms in the papillomavirus E7 oncoprotein*. **Redox Biology** **11**, 38-50. PMID: 27863297
- 94- Noval, M.G., Esperante, S., Molina, I.G., Chemes, L.B., Prat Gay, G de (2016) *Intrinsic disorder to order transitions in the scaffold phosphoprotein P from the respiratory syncytial virus RNA-polymerase complex*. **Biochemistry** **55**, 1441-1454. PMID: 26901160.
- 93- Pretel, E., Sanchez, I.E., Fassolari, M, Chemes L.B., and Prat Gay, G. de (2015) *Conformational heterogeneity determined by folding and oligomer assembly routes of the interferon response inhibitor NS1 protein, unique to human respiratory syncytial virus*. **Biochemistry** **54**, 5136-5146. PMID: 26237467
- 92- Ramirez. N., Guerra. F., Camporeale, G., Quintana, S., Diaz, L.B., Cuneo, N., Villacorta Hidalgo, J., Tatti, S.A., Alonso, L.G., Borkosky, S.S., Prat Gay, G de, and Palaoro, L. (2015) *Expression of E2 and E7-HPV16 proteins in pre-malignant and malignant lesions of the uterine cervix*. **Biotechniques and Histochemistry** **19**, 1-8. PMID: 26052817
- 91- Chemes, L.B., Prat Gay, G. de, and Sanchez, I.E. (2015) *Convergent evolution and mimicry of protein linear motifs in host-pathogen interactions*. **Current Opinion in Structural Biology**, **32**, 91-101. PMID: 25863584
- 90- Guerra, F., Rocher, A.E., Villacorta-Hidalgo, J., Diaz, L., Vighi, S., Cardinal, S., Tatti, S., Cúneo, N., Prat Gay, G. de, and Palaoro Luis (2014) *Argentophilic nucleolus organizer region as a proliferation marker in cervical intraepithelial neoplasia grade 1 of the uterine cervix*. **Journal of Obstetrics and Gynaecology Research**, **40**, 1717-1724. PMID: 24888939
- 89- Chemes, L.B., Camporeale, G., Prat Gay, G. de, Alonso, L.G. (2014) *Cysteine-Rich Positions Outside the Structural Zinc Motif of Human 2 Papillomavirus E7 Provide Conformational Modulation and Suggest Functional Redox Roles*. **Biochemistry**, **52**, 1680-1696. PMID: 24559112
- 88- Esperante, S.E., Noval, M.G., Altieri, T.A., Oliveira, G.A.P., Silva, J.L., and Prat Gay, G. de (2013) *Fine*



*Modulation of the Respiratory Syncytial Virus M2-1 Protein Quaternary Structure by Reversible Zinc Removal from its Cys3-His1 Motif.* **Biochemistry**, 52, 6779-6789. PMID: 23984912

87- Pretel, E., Camporeale, G., and Prat Gay, G. de (2013) *The non-structural NS1 protein unique to respiratory syncytial virus: a two-state folding monomer in quasi-equilibrium with a stable spherical oligomer.* **PLoS ONE**, 8(9):e74338. PMID: 24058549

86- Noval, M.G., Gallo, M., Chemes, L.B., and Prat Gay, G. de (2013) *Conformational dissection of a viral intrinsically disordered domain involved in cellular transformation.* **PLoS ONE**, 8(9):e72760. PMID: 24086265

85-Chemes, L.B., Noval, M.G., Sanchez, I.E., and Prat Gay, G. de (2013) *Folding of a cyclin box: linking multitarget binding to marginal stability, oligomerization and aggregation of the retinoblastoma tumor suppressor AB pocket domain.* **Journal of Biological Chemistry**, 288, 18923-38. PMID: 23632018

84- Fassolari, M., Chemes, L.B., Gallo, M., Smal, C., Sanchez, I.E., and Prat Gay, G. de (2013) *Minute-timescale prolyl isomerization governs antibody recognition of an intrinsically disordered immunodominant epitope.* **Journal of Biological Chemistry**, 288, 13110-23. PMID: 23504368

### Años 1989-2012

83- Esperante, S., Paris, G., and Prat Gay, G. de (2012) *Modular unfolding and dissociation of the human respiratory syncytial virus phosphoprotein P and its interaction with the M2-1 antiterminator reveals a singular tetramer-tetramer interface arrangement.* **Biochemistry**, 51, 8100-10. PMID: 22978633

82- Chemes, L.B., Glavina, J., Alonso, L.G., Marino-Buslje, C., Prat Gay, G. de\*, and Sanchez, I.E. (2012) *Sequence Evolution of the Intrinsically Disordered and Globular Domains of a Model Viral Oncoprotein.* **PLoS ONE**, 2012;7(10):e47661. PMID: 22683353.

81- Chemes, L.B., Glavina, J., Faivovich, J., Prat Gay, G. de, and Sanchez, I.E. (2012) *Evolution of linear motifs within the papillomavirus E7 oncoprotein.* **Journal of Molecular Biology**, 422, 336-346. PMID: 22683353

80- Smal, C., Alonso, L.G., Wetzler, D.E., Heer, A., and Prat Gay, G. de (2012) *Ordered self-assembly mechanism of a spherical oncoprotein oligomer triggered by zinc removal and stabilized by an intrinsically disordered domain.* **PLoS ONE**, 7, e36457. PMID: 22590549

79- Cerutti, M.L., Alonso, L.G., and Prat Gay, G. de (2012) *Long-lasting immunoprotective and therapeutic effects of a hyperstable E7 oligomer based vaccine in a murine HPV tumor model.* **International Journal of Cancer**, 130, 1813-20. PMID: 21780110

78- Alonso, L.G., Chemes, L.B., Cerutti, M.L., Dantur K.I. and Prat Gay, G. de (2012) *Biochemical and structure-function analyses of the HPVE7 oncoprotein*, in: "Small DNA Tumour Viruses". Gaston K. Ed., Horizon Press, Chapter 6, pp 99-124.

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## 9. RESUMEN DE OTRAS ACTIVIDADES

- Docente en 14 cursos y jurado en 10 tesis.
- Dirección de tesis: 16 doctorales, 3 maestrías, 5 licenciaturas
- 45 presentaciones a reuniones científicas nacionales.
- 80 presentaciones a reuniones científicas internacionales.
- Colaboración con 14 grupos nacionales e internacionales.
- Revisor de publicaciones: *Biochemistry*, *Journal of Molecular Biology*, *Journal of Biological Chemistry*, *Protein Science*, *PLoSOne*, *Protein Science*, *Chemistry & Biology*, *Antioxidants*, *Redox and Cell Signaling*, entre otras.
- Miembro del consejo editorial de *BioMed Central (BMC) Structural Biology* y *Peer Journal*
- Embajador de la *Biophysical Society* en Argentina (2019- )