


# PATRICIA CAROLINA ALVAREZ TRONCOSO

BACHELOR DEGREE IN GENETICS




ANPCyT doctoral degree (National Agency for Scientific and Technological Promotion) until 11/30/2024. OCA 2022-635 UNMDP. IIB.

## CONTACT INFORMATION

 (54) 2235010202  
Mar del Plata. Argentina

 pcaroat@gmail.com

 LinkedIn: @carolina-alvarez-troncoso

## WORK EXPERIENCE

### Central Laboratory Regional Hospital of Comodoro Rivadavia "Dr. Juan Manuel Sanguinetti".

DR. SUSANA R. ORTIZ. HEAD DIV. LABORATORY - MOLECULAR BIOLOGY AREA

- COVID-19 determinations: Antigens, Antibodies and Real Time PCR.
- STEC typing.
- SISA system data upload

From August to December 2021.

## SPECIALIZATIONS

- Molecular Biology. PCR. qPCR.
- Extraction of eukaryotic and prokaryotic DNA and RNA.
- Diagnosis of genetic diseases
- Identification of people. Microsatellites (STRs)
- Pathogen typing by PCR
- R&D in specific diagnoses
- Bioethics

## ACADEMIC HISTORY

### Specialization Course in Bioethics

UNESCO CHAIR OF BIOETHICS AND BIOLAW

- Full scholarship from the CAROLINA Foundation of Spain.
- Duration: 340 hours. 20 credits and Teaching Certificate
- Date: April 1 to May 31, 2002

### Bachelor degree in Genetics

NATIONAL UNIVERSITY OF MISIONES -FCEFYN

- Study Scholarship from the National University of Misiones for 3 years.
- Average: 8 (eight)
- Date: February 1995 to August 28, 2001.

### Research Professional to develop the Area of Forensic Genetics and Diagnosis of Genetic Diseases..

CEPIDEM. FACULTY OF CS. MEDICAL. UNC.

- Responsible for supervising and developing multiple research projects.
- Liaison with the team of doctors regarding their diagnostic needs for prevalent diseases.


Date: February 7, 2005 to 2011

# PATRICIA CAROLINA ALVAREZ TRONCOSO


BACHELOR DEGREE IN GENETICS



## CONTACT INFORMATION

 (54) 223 5010202  
H. Irigoyen 3364 Dpto. C. Mar  
del Plata. Bs. As. Argentina

 pcaroat@gmail.com

 LinkedIn: @carolina-alvarez-  
troncoso

## ACADEMIC TRAINING (CONTINUED)

### Argentina - SNVS2.0 Course (version 2020)

PAN AMERICAN HEALTH ORGANIZATION AND  
MINISTRY OF HEALTH OF THE NATION

- Duration: 20 hours.
- September 18, 2021.

### Course Introduction to Genomic Surveillance

ANLIS DR. CARLOS E. MALBRAN,

- September 7, 10 and 14, 2021.

### Medical Visitor Course.

CURSOS AMERICANOS ON LINE. AMERICAN AND  
INTERNATIONAL GLOBAL LEARNING SCHOOL,

- Inc. Registro: 2240275234/2021.
- Duración: 120 hs. 10 agosto de 2021.

### Clinical Trials Monitor Course

MEDICAL VISITOR FOUNDATION FOR  
PHARMACOLOGICAL AND MEDICAL STUDIES FEFYM.

- Date: August 2021 and continues

### Technician in Food Industries.

TECHNICAL EDUCATION SCHOOL NO. 2 "GRAL.  
MARIANO NECOCHEA" (FORMER E.N.E.T. NO. 1)

- District of Necochea, Province of Buenos Aires.
- Graduation: 11/30/1994

## CONCURRENCES

- **Laboratory of Molecular Biology and Human Genetics** dependent on the Surgery Service of the Provincial Pediatric Hospital of Posadas. Responsible for the area: Lic. Cristina Martín. Date: May to December 2001.
- **Attendance at the Institute of Human Genetics,** Area of Molecular Biology. "Human Identification through the use of STR microsatellites." Area manager Lic. Celia E. Lúdica. Mar del Plata. Date: August 27 to October 4, 2002. Duration: 224 hours.
- **Attendance at the Institute of Human Genetics,** Area of Molecular Biology. "Diagnosis and quantification of tumor burden for the bcr-abl translocation. Responsible: Dr. Ivonne Otazú. Mar del Plata. Date: November 11 to 19, 2002.

## TEACHING AND PERFORMANCE PROFESSIONAL


- **Ad-Honorem second-grade teaching assistant.** Chair of General Ecology. Bachelor's degree in Genetics and Professorship in Biology. Faculty of Exact, Chemical and Natural Sciences. - UNAM. From December 1, 1998 to March 8, 2000.
- **Researcher in the Area of Genetics.** UCSE Biomedicine Institute. Santiago del Estero. Date: October 1, 2002 until March 1, 2003.
- **Scientific and technical professional Level 4 of the Molecular Biology Laboratory** unit CEPROCOR- Córdoba Science Agency. Cordova. Date: March 1, 2003 to February 4, 2005.
- **Research Professional to develop the Area of Forensic Genetics and Diagnosis of Genetic Diseases.** CEPIDEM. Faculty of Cs. Medical. UNC. Date: February 7, 2005 to 2011.
- **Teacher in the Biochemistry and Molecular Biology Specialty Course** for non-paid student assistants. Organized by the Chair of Biochemistry and Molecular Biology. December 2007.

# PATRICIA CAROLINA ALVAREZ TRONCOSO


BACHELOR DEGREE IN GENETICS



## CONTACT INFORMATION

 (54) 223 5010202  
H. Irigoyen 3364 Dpto. C. Mar  
del Plata. Bs. As. Argentina

 pcaroat@gmail.com

 LinkedIn: @carolina-alvarez-  
troncoso

## INVESTIGATION SCIENTIFIC

- **Second-class assistant in the CIDET Research Project:** "Survey of the Entomofauna of Misiones." Chair of General Ecology. Faculty of Exact, Chemical and Natural Sciences – UNaM. Director: Lic. Aida Tricio. From December 1, 1998 to March 8, 2000.
- **Co-author of the experimental project.** "Influence of Dimethoate (O,O-dimethyl 5 methyl-carbamoylmethyl phosphorodithioate) on the production of macrospermatids and microspermatids in orthoptera. Presented as T.P. in the Chair of Cytology and Histology – Faculty of Exact, Chemical and Natural Sciences – UNaM. Date: August of 1996.
- **Bachelor Thesis: "Genetic-population characterization of the city of Mar del Plata for four VNTR loci used in Human Identification with Informed Consent."** Carried out at the Institute of Human Genetics dependent on the Human Genetics Association of the city of Mar del Plata. Director: Lic. Celia E. Iudica. Co-director: Dr. Justo H. M. Zanier. Date: August 2001.

- **"Genotypic polymorphisms m1 (Msp1) and m2 (Ile/Val) of the CYP1A1 gene in patients with non-syndromic myelomeningocele and their correlation with inducibility phenotypes against Polycyclic Aromatic Hydrocarbons (PAHs)."** Director: Dr. Hugo Néstor Gomez Demaio. Co-director: Dr. Samuel Bluvstein. Laboratory of Molecular Biology and Human Genetics. Provincial Pediatric Hospital. Responsible: Lic. Cristina Martín. Date: May to December 2001
- **Role of hydrogen sulfide (H<sub>2</sub>S) in plant responses to blue light.** Research project in progress for PhD thesis in Biology. UNMDP

## JOBS PUBLISHED


- **Alvarez Troncoso, P. C.; Iúdica, C. E. and Zanier, J. H. M.** 2001. Genetic-population characterization of the city of Mar del Plata for four VNTR loci used in Human Identification with Informed Consent. Journal of Basic and Applied Genetics, Vol. 14, No. 2 (supplement), pp.46.
- **Gomez Demaio, H.; Martin, C.; White, R.; Carreño, H.; Brandan, N.; Bluvstein S.; Carluccis, M.; Ferreras, J. and Alvarez Troncoso, P. C.** 2001. Allelic frequencies of the m1 polymorphism of the environmental gene CYP1A1 in current non-aboriginal Argentine and Chilean populations. Journal of Basic and Applied Genetics, Vol 14, No. 2 (supplement), pp.45.
- **Alvarez Troncoso, P. C.; Iúdica, C. E. and Zanier, J. H. M.** Informed Consent in research studies on population-genetic characteristics applicable to human identification. Presented to Quirón magazine. October 2001..

# PATRICIA CAROLINA ALVAREZ TRONCOSO

BACHELOR DEGREE IN GENETICS



## CONTACT INFORMATION

 (54) 223 5010202  
H. Irigoyen 3364 Dpto. C. Mar  
del Plata. Bs. As. Argentina

 pcaroat@gmail.com

 LinkedIn: @carolina-alvarez-  
troncoso

## PARTICIPATION IN CONFERENCES


- **Genetics Conference Assistant to the theoretical-practical course** "DNA Analysis Techniques Applied to the Determination of Identity and Affiliation". Taught by Lic. Celia Iúdica. Organized by the Institute of Biomedicine. UCSE. Santiago del Estero. Date: August 12-16, 2002. Duration: 25 hours.
- **Assistant to the "Medical Genetics Conference"**. Taught by Dr. Daniela Montanari. Organized by the Institute of Biomedicine. UCSE. Santiago del Estero. Date: December 13-14, 2002. Duration: 7 hours and final evaluation.
- **Presentation and defense of Poster.** Research project: "Health Indicators in the province of Santiago del Estero". 2nd UCSE Research Conference. Santiago del Estero. Date: November 6, 7, 8, 2002.
- **Assistant at the "SAGF-2002 Quality Control Discussion Days"** and Statistics Workshop. Organized by the Argentine Society of Forensic Genetics (SAGF) and the Córdoba Ciencia Agency. Córdoba. Date: May 10 and 11, 2003.
- **Assistant at the "SAGF-2003 Quality Control Discussion Days"** organized by the Argentine Society of Forensic Genetics (SAGF) and the Córdoba Ciencia Agency. Córdoba. Date: November 2004.
- **International Symposium on Medicine, Molecular and Cellular Biochemistry.** Organized by the National University of Córdoba and the Autonomous University of Madrid. Córdoba. Date: February 22-25, 2005.
- **Plant Biology Lectures 2024 Series** from October 16-18, 2024, Rosario, Argentina, as an assistant.
- **Presentation and defense of Poster XVII Meeting of Biologists in Network.** Mar del Plata on November 14 and 15, 2024
- **"NAVAL BIOETHICS DAYS"** Multidisciplinary and Interinstitutional Approach. Organized by the Argentine Navy, Submarine and Diving School, Atlantic Naval Area Command, directed by: Frigate Captain Gustavo Ricardo Grunschlager; and the Mar del Plata Human Genetics Association. Duration: 25 hours lecture. Date: September 18 to 22, 2000.
- **Presentation and defense of Poster in the Area of Molecular Genetics:** Genetic-population characterization of the city of Mar del Plata for four VNT loci used in Human Identification with Informed Consent. XX Argentine Congress of Genetics, IV Argentine Uruguayan Conference on Genetics. Place: Mar del Plata. Date: September 16-19, 2001.
- **Genetics Conference Speaker at the Seminar** "Characterization of the population of the city of Mar del Plata for four VNTR loci used in Human Identification with Informed Consent." Organized by the Institute of Biomedicine. UCSE. Santiago del Estero. Date: August 14, 2002.

# PATRICIA CAROLINA ALVAREZ TRONCOSO


BACHELOR DEGREE IN GENETICS



## CONTACT INFORMATION

 (54) 223 5010202  
H. Irigoyen 3364 Dpto. C. Mar  
del Plata. Bs. As. Argentina

 pcaroat@gmail.com

 LinkedIn: @carolina-alvarez-  
troncoso

## POSTGRADUATE COURSES

- **Molecular Physiology of plants.** February 22 to March 19, 2022. Department of Physiology, Molecular and Cellular Biology FCEN-UBA. Dr. Pablo Cerdán. Hour load: 84 hours.
- **Plant Physiology.** December 14, 2023. Department of Biology. FCEYN-UNMDP. Prof. Claudia Casalongué. Hour load: 84 hours.
- **Introduction to the R programming language and its application in statistical analysis.** December 2023. FCEYN-UNMDP. Drs. Juan ALBERTI, Pedro DALEO and Jesús Darío NUÑEZ. Hour load: 24 hours.
- **Research Methodology.** February 15 to 17 and March 1 to 3, 2023. FCEYN-UNMDP. Dr. Pablo Antonio MARTINEZ. Hour load: 24 hours.
- **Signal Transduction in Plants.** March 6 to 17, 2023. FCEYN-UNMDP. Dr. Carlos GARCÍA-MATA and Dr. Ana María LAXALT. Hour load: 80 hours.
- **Bioethics in the 21st Century.** from May 9, 2024 to August 16, 2024. Responsible teacher: Dr. María Marta Mainetti; clock hours: 60 hours

## OTHER BACKGROUND

- **"English-Level I"** Course Organized by the Extension Secretariat of the Faculty of Humanities and Social Sciences - UNaM. Duration: 85 teaching hours Date: April to December 1997.
- **"English-Level II"** Course Organized by: Extension Section of the Faculty of Humanities and Social Sciences - UNaM. Duration: 64 teaching hours. Date: March to November 1998.
- **Theoretical-practical mini-course** "INTRODUCTION TO THE STUDY OF EARTH SCIENCES" Organized by the Chair of General Ecology of the Bachelor's Degree in Genetics and Teaching Staff in Biology - Faculty of Exact, Chemical and Natural Sciences - UNaM. Dictated by: Lic. Carlos Aust. Duration: 10 hours. Date: March 23, 24 and 31, 1998.
- **Seminar** "MOLECULAR DYNAMICS IN BIOLOGICAL SYSTEMS" Sponsored by the Faculty of Exact, Chemical and Natural Sciences- UNaM. Date: April 1 and 2, 1998.
- **Course on "PRIMARY HUMORAL IMMUNO-DEFICIENCIES" - "METHODOLOGICAL ADVANCES FOR EARLY DIAGNOSIS OF IMMUNODEFICIENCIES - FLOW CYTOMETRY"** Organized by the College of Biochemists of the Province of Misiones. Dictated by: Dr. Horacio Serra. Date: March 26 and 27, 1999.
- **"English-Level III"** Course Organized by: Extension Secretariat of the Faculty of Humanities and Social Sciences - UNaM. Duration: 64 teaching hours. Date: March to November 2001.
- **Course "Fundamentals of Gene Therapy"** Organized by the UNAM, FCEQYN, within the framework of the Scientific and Technological Conferences 2001. Taught by Ms. Eduardo Filipe Avila Silva and Ms. Andrés Delgado Cañedo. Duration: 8 hours. Date: October 29 and 30, 2001.




# PATRICIA CAROLINA ALVAREZ TRONCOSO

BACHELOR DEGREE IN GENETICS



## CONTACT INFORMATION

 (54) 223 5010202  
H. Irigoyen 3364 Dpto. C. Mar  
del Plata. Bs. As. Argentina

 pcaroat@gmail.com

 LinkedIn: @carolina-alvarez-  
troncoso

## OTHER BACKGROUND

- **Attendance at the 1st International Symposium on Food Mushrooms and Sustainable Development.** Hosted by UNC FCA. Date: September 6, 2019. Duration: 10 hours.
- **Intensive English course.** Municipality of Villa Carlos Paz March 2020.
- **COVID-19 Prevention Protocol** – UNC. Date: September 18, 2020  
[https://certificados.campusvirtual.unc.edu.ar/upv/code=ae728c1eb2a24875bfc761763e947ff0&pk\\_source=certificados&pk\\_medium=email&pk\\_campaign=Aviso%20de%20Certificado](https://certificados.campusvirtual.unc.edu.ar/upv/code=ae728c1eb2a24875bfc761763e947ff0&pk_source=certificados&pk_medium=email&pk_campaign=Aviso%20de%20Certificado)
- **My own garden course** – UNC virtual campus. Date October 2, 2020.  
[https://certificados.campusvirtual.unc.edu.ar/upv/code=cfcc1d37f4684945b0f86fa7b845f9c4&pk\\_source=certificados&pk\\_medium=email&pk\\_campaign=Aviso%20de%20Certificado](https://certificados.campusvirtual.unc.edu.ar/upv/code=cfcc1d37f4684945b0f86fa7b845f9c4&pk_source=certificados&pk_medium=email&pk_campaign=Aviso%20de%20Certificado)
- **Teacher Training in gender and addressing violence UNC “Ley Micaela”** – UNC virtual campus. Date October 2020
- **Course: “Genomic Conflict: cells and organisms as a battlefield of genes”**  
Organized by the National University of Misiones, Faculty of Exact Chemical and Natural Sciences, within the framework of the Scientific and Technological Conferences 2001. Taught by Dr. Claudio J. Bidau and Dr. Marcela Rosato. Duration: 20 hours. Date: November 5 to 9, 2001. March to November 1998.
- **Summer English Course** English School of the Faculty of Exact, Chemical and Natural Sciences. UNAM. Date: February and March 2002.
- **INTERMEDIATE level English Course** English School of the Faculty of Exact, Chemical and Natural Sciences. UNAM. Date: April to September 2002.
- **Attendee of the theoretical-practical course “The Polymerization Chain Reaction (PCR) Technique and its applications”.** Taught by Dr. Cecilia Inés Catanesi Organized by the Institute of Biomedicine. UCSE. Santiago del Estero. Date: October 17 to 19, 2002. Duration: 15 hours.
- **English course for adults** Costa Azul College. Date: April to November 2003–2004