

**Fabricio Ragone obtained his PhD (Chemistry) at the University of La Plata in 2015. He is researcher of the Institute of Theoretical and Applied Physical-Chemical Research (INIFTA) in Argentina. Since 2010, he has been teaching assistant of Inorganic Chemistry at the University of La Plata. His research is focused on Phytochemical and Photophysical studies on transition metal complexes and their interaction with biopolymers.**

## **CURRICULUM VITAE**

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### **PERSONAL INFORMATION**

Last name: Ragone  
First name: Fabricio  
Place of birth: Salto, Buenos Aires, Argentina  
Date of birth: 23-02-1979  
Nationality: Argentine  
Marital status: Single  
Correspondence address: Calle 4 # 1063 La Plata, Argentina.

### **EDUCATION**

**1997-2011** Studies of Biochemistry, University of La Plata  
**2010** Diploma in Chemistry, University of La Plata  
**2011** Diploma in Biochemistry, University of La Plata  
**2011-2015** PhD student of the Faculty of Sciences, orientation chemistry, University of La Plata.  
**2015** PhD degree of the Faculty of Sciences  
**2015-2018** Postdoctoral research at the Biotechnology Research Institute, Chascomús, Argentina.

### **POSITIONS:**

**2010-2019** Teaching assistant of Inorganic Chemistry, University of La Plata

### **SCOLARSHIPS**

- 1- Doctoral scholarship (Initiation). National agency for scientific and technological promotion. 2011-2014
- 2- Doctoral scholarship. CONICET. 2014-2016
- 3- Postdoctoral scholarship. CONICET. 2015-2017

### **WORKING STAYS:**

- 1- March-June 2011. Notre Dame University, Notre Dame, Indiana, United States of America.

2- June 2013. Complutense University, Madrid, Spain.

## ADVANCED COURSES

1- **Biological photoreceptors. Function, Structure, Photophysics and Photochemistry. Photophysics and photochemistry of the corresponding chromophores.**

Chascomús Technological Institute. October 8, 2012

2- **Photochemical sensors for environmental monitoring and industrial analysis**

Institute of Theoretical and Applied Physicochemical Research. June 13, 2011

3- **Inorganic photochemistry in solution**

Institute of Theoretical and Applied Physicochemical Research March 18, 2011

3- **Introduction to the exact philosophy of science**

Institute of Theoretical and Applied Physicochemical Research. March 12, 2014

## PARTICIPATION IN SCIENTIFIC PROJECTS

**2012-2014 INTECH, CHASCOMUS, ARGENTINA.**

"Search of the molecular bases in the mutagenic, phototoxic and photogenotoxic processes where the free and coordinated beta-carbolines participate. Evaluation of biological implications and biotechnological applications "

**2013-2015 UNLP LA PLATA, ARGENTINA**

"Complexes of transition metals: photochemistry, photophysics and union to biopolymers"

**2011-2013 INIFTA LA PLATA, ARGENTINA**

Photophysics and photochemistry of coordination compounds: interaction with small proteins and basic charge transfer studies

**2010-2012 INIFTA LA PLATA, ARGENTINA**

Study of photochemical processes of biomedical interest in which free heterocyclic compounds (particularly pteridines) or complexes with transition metals participate

## LIST OF PUBLICATIONS

INDEXED JOURNALS:

1- ***“Photophysics, photochemistry and thermally induced redox reactions of a (Pterin)rhenium(I) complex”***

Fabrizio Ragone, Pedro M. David Gara, F. S. García Einschlag , Lappin, Alexander G., Guillermo Ferraudi, Ezequiel Wolcan and Gustavo T. Ruiz.

*Journal of photochemistry and photobiology A Chemistry*. Volume 358, 2018, Pages 147-156

2- ***“Association studies to transporting proteins of fac-ReI(CO)3(pterin)(H2O) complex”***

Fabricio Ragone, Hector H. Martinez-Savedra, Pablo F. Garcia, Ezequiel Wolcan, Gerardo Arguello y Gustavo T. Ruiz J Biol Inorg Chem 2017 vol.22 n°. p99 – 108

**3- “Solvent Effects on the Photophysical Properties of a Zwitterionic Re(I) Complex. A Combined Experimental and Computational Study”**

Hector H Martinez Saavedra; Fabricio Ragone; Carlos A Franca; Gustavo T Ruiz; Pedro M David Gara y Ezequiel Wolcan

Journal of Organometallic Chemistry 817 (2016) 26-35

**4- “Solvent Dependent Switching of (MLLCT)-M-3 and (IL)-I-1 Luminescent States in [ClRe(CO)3(Bathocuproinedisulfonate)](2-): Spectroscopic and Computational Study”**

Hector H Martinez-Saavedra, Fabricio Ragone, Gustavo T Ruiz, Pedro Maximiliano David Gara and Ezequiel Wolcan.

J. Phys. Chem. A, 2014, 118 (41), pp 9661–9674

**5- “Photosensitized Generation of Singlet Oxygen from Re(I) Complexes: A Photophysical Study Using LIOAS and Luminescence Techniques”**

Fabricio Ragone, Héctor H. Martinez Saavedra, Pedro M. David Gara, Gustavo T. Ruiz, and Ezequiel Wolcan

J. Phys. Chem. A 2013, 117, 4428–4435

**6- “Photophysical and photochemical studies of rhenium (I) complexes through the techniques of laser flash photolysis and pulse radiolysis”**

Fabricio Ragone, Gustavo T. Ruiz, Guillermo Ferraudi and Ezequiel Wolcan.

J. Argent. Chem. Soc., 2013, 100, 61-65

**7- “Water-Soluble Pterinrhenium(I) Complex. Synthesis, Structural Characterization, and Two Reversible Protonation–Deprotonation Behavior in Aqueous Solutions”**

F. Ragone, G. T. Ruiz, O. E. Piro, G. A. Echeverría, F. M. Cabrerizo, G. Petroselli, R. Erra-Balsells, K. Hiraoka, F. S. García Einschlag, and E. Wolcan

Eur. J. Inorg. Chem. 2012, 30 4801–4810

**CONFERENCE PROCEEDINGS:**

1- SILQCOM6, Iguazu. 2017.

**“Norharmane and Pterin rhenium(I) polypyridyl complexes: synthesis, structural and spectroscopic Characterization”**

Ezequiel Wolcan; Ivan Maisuls; Fabricio Ragone; Oscar E. Piro; Gustavo A. Echeverría; Gabriela Petroselli; Rosa Erra-Balsells; Franco M. Cabrerizo; Gustavo T. Ruiz.

2- XIII ELAFOT. Carlos Paz. Argentina 2017

**“Photophysical properties of fac- ReI(CO)3(pterin)(H2O) complex. Photochemically and thermally induced redox reaction”**

Fabricio Ragone, Pedro M. David Gara, F. S. García Einschlag, Lappin, Alexander G., Guillermo Ferraudi, Ezequiel Wolcan and Gustavo T. Ruiz.

3- III GRAFOB, Tucuman, Argentina 2016

***“Towards new photodynamic therapy agents: studies of the association between a complex of Re (I) and transport proteins”***

Fabrizio Ragone, Hector H. Martinez-Savedra, Pablo F. Garcia, Ezequiel Wolcan, Gerardo Arguello y Gustavo T. Ruiz

4- *Aargentine congress of mass spectrometry. Rosario Argentina, 20166*

***SAEM “Organometallic analysis by mass spectrometry, a current challenge”***

Gabriela Petroselli; Ivan Maisuls; Fabrizio Ragone; Ezequiel Wolcan Franco M. Cabrerizo; Gustavo T. Ruiz and Rosa Erra-Balsells.

1- 16th International Congress on Photobiology Cordoba Argentina, Septiembre 2014

***“Estudios de asociación entre el complejos de Re(I) y biopolímeros”***

Fabrizio Ragone, Hector H. Martinez Saavedra, Facudo Garcia, Gustavo T. Ruiz y Ezequiel Wolcan

2- XVIII Argentine Congress of Physical Chemistry and Inorganic Chemistry, Rosario, Argentina 2013

***“Propiedades fotofísicas y fotoquímicas del complejo  $Re(CO)_3(pterina)(H_2O)$ ”***

Fabrizio Ragone, Guillermo Ferraudi, Gustavo T. Ruiz y Ezequiel Wolcan

3- XI Latin American meeting of photochemistry and photobiology, Cordoba Argentina, 2012

***“Determinación de parámetros optoacústicos en complejos de Renio (I)”***

Fabrizio Ragone, Hector H. Martinez-Savedra, Gustavo T. Ruiz, Pedro David Gara, Ezequiel Wolcan

4- 12th International symposium on metal ions in biology and medicine, Punta del Este, Uruguay, 2013.

***“DNA structural changes on binding and photoreaction with water-soluble tricarbonyl Re(I) complexes”***

Fabrizio Ragone, J. Gabriel Yañuk, Franco Cabrerizo, Ezequiel Wolcan, Gustavo T. Ruiz.

5- 21st Inter American Photochemical Society Meeting, Mendoza Argentina, 2011

***“Kinetic Study of the Reactions of Sulphate Radical Anions with Phenantrene in Aqueous Solutions”***

Fabrizio Ragone, Verónica C. Mora, Janina A. Rosso

6- 21st Inter American Photochemical Society Meeting, Mendoza Argentina, 2011

***“Absorption and emission spectroscopy of a new water-soluble tricarbonyl Re(I) complex. Solvent and pH dependence.”***

Fabrizio Ragone, Sebastián García-Einschlagh and Gustavo T. Ruiz

7- XVIII Argentine Congress of Chemistry, Lanús, 2010

***“Síntesis y caracterización del complejo  $fac-CIRe'(CO)_3(pterina)$ ”***

Fabrizio Ragone y Gustavo T. Ruiz,