

# MARÍA PAULINA ROMERO OBANDO

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Born: 1980/02/26  
Address: Ladron de Guevera E11-253,  
170517. Quito, Ecuador

Nanomaterials in bioapplications, Drug Delivery Systems, Photodynamic Therapy

## EDUCATION

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### Post Ph.D

Instituto de Física de São Carlos. Universidade de São Paulo

Feb 2017-today

### Ph.D. *Doctor in Physics (Condensed mater)*

Pontificia Universidade Católica de Rio de Janeiro. Rio de Janeiro-Brasil.

May 2012

### *Physic*

National Polytechnic School  
Quito, Ecuador

Sep 2007

## RESEARCH EXPERIENCE

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### Current projects

Name: Photosensitizer nanodelivery for Photodynamic Therapy. Fase I.

Funder: EPN, PIS-1437

Partners: EPN

Function: Director

Name: Brazilian Photodynamic Therapy.

Funder: USP-São Carlos-Brazil

Partners: USP

Function: Collaborator

## TEACHING EXPERIENCE

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**National Polytechnic School, Quito**  
**Associate Professor, Department of Materials**

May 2014 to now

## PUBLICATIONS

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### Articles in international scientific journals

Photophysical properties and photodynamic activity of a novel menthol–zinc phthalocyanine conjugate incorporated in micelles. Romero M. P., Gobo N., Oliveira K., Yamamoto Y., Serra O., Louro S. *Journal of Photochemistry and Photobiology A: Chemistry* Volume 253, 1 February 2013, 22–29. DOI: 10.1016/j.jphotochem.2012.12.009

Interaction of zinc phthalocyanine with ionic and non ionic surfactants: UV–VIS absorption and fluorescence spectroscopy for application in photodynamic therapy. *European Biophysics Journal* 12(3):359 · September 2015. DOI: 10.1016/j.pdpdt.2015.07.136

PDT Brazil - Photodynamic Therapy based M-ALA for non melanoma skin cancer: Ecuador experiences. Romero P., Cabrera F., Tello S., Kurachi C., Ramirez P., Guamán L., Avalos E., Bagnato V. *Photodiagnosis and Photodynamic Therapy*. Volume 12, Issue 3, September 2015, Pages 373. <https://doi.org/10.1016/j.pdpdt.2015.07.186>

Treatment of condyloma acuminatum using methyl-aminolaevulinic acid for introduce a medical guideline on health public system. Altamirano V., Romero P., Palacios I., Inada N., Bagnato V. *Photodiagnosis and Photodynamic Therapy*. Volume 12, Issue 3, September 2015, Pages 342–343. <https://doi.org/10.1016/j.pdpdt.2015.07.073>

Physiological considerations acting on triplet oxygen for explicit dosimetry in photodynamic therapy. Sánchez V, Romero MP, Pratavieira S, Costa C. *Photodiagnosis and Photodynamic Therapy* 19 (2017) 298-303. DOI: 10.1016/j.pdpdt.2017.07.008

### LANGUAGES

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**Spanish:** Native Language

**Portuguez:** Advanced Listener, Advanced Speaker, Advanced Reading and Writing

**English:** Intermediated Listener, Intermediated Speaker, Advanced Reading and Writing