

CURRICULUM VITAE

Tsamesidis Ioannis

PERSONAL INFORMATION

Name: Ioannis

Surname: Tsamesidis

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PROFESSIONAL SUMMARY

I am a Biomedical Scientist, PhD in Biomolecular Medicine (University of Verona) with 4 years of work experience in Malaria Research and with extensive knowledge in the evaluation of different antimalarial combinations. I participated in preclinical studies of new antimalarial drugs, the SYK inhibitors. Currently, I am working in the understanding of artemisinin activation in *Plasmodium falciparum*. During my work experience, I demonstrated a consistent sense of personal responsibility and capacity to work independently and in a multidisciplinary team. As a result of my work in University of Toulouse and Sassari, I developed a good adaptability and predisposition to the problem solving, even under critical conditions.

EDUCATION:

October 2014 - October 2017: **PhD in Life and Health Science**

University of Verona, Dept. of Medicine. Doctoral program in **Biomolecular Medicine** Curriculum: Clinical Proteomics and Genomics

Title of the dissertation: "Mechanism of synergic interaction of Syk inhibitors on antimalarial artemisinin activity"

Defense of PhD thesis: 18/5/2018

March 2010 - July 2014: **Bachelor degree in Medical Laboratory Technology**

Alexander Technological Educational Institute of Thessaloniki, Greece.

Title of the dissertation: "Oxidative stress in mediterranean β -thalassemic patients: Correlation of patients in Sardinia and central Macedonia"

WORK EXPERIENCE:

June 2018 - May 2019: **Post-doctoral fellow**

University of Sassari – Italy, Department of Biomedical Sciences

Advisor: Prof.ssa Antonella Pantaleo

November 2017 – May 2018: **Research assistant**

Nurex srl diagnostics

Advisor: Dott.ssa Franca Rita Mannu

Research topics:

- Study of artemisinin activation in parasitized red blood cells
- Study of antimalarial combination between Syk inhibitors and Artemisinins against *P.falciparum* strains
- Planning laboratories procedures and evaluation of primary outcomes in the Clinical Trial.

October 2014 – October 2017: **PhD student**

University of Verona –Italy. Dept. of Medicine

Advisor: Prof. Francesco Turrini

Research topics:

- Mechanism of synergic interaction of Syk inhibitors on antimalarial artemisinin activity
- *In vitro* studies to evaluate the antimalarial activity of Syk inhibitors and other antimalarial drugs
- Parasitological measurement for Clinical Trial "Imatinib's effect on the suppression of Malaria Parasites in patients with uncomplicated Plasmodium Falciparum Malaria".
- Application of molecular techniques in Malaria

April-May 2017/ October 2017: **Visiting researcher**

University of Paul Sabatier Toulouse III, France, Department of Pharmacy

Advisor: Prof. Karine Reybier, Prof. Antonella Pantaleo, Prof. Francoise Nepveu and Prof. Francesco Turrini

Research topic: Artemisinin activation, Free radical measurement with Electron paramagnetic resonance (EPR) and ROS detection with fluorescent probes in parasitized red blood cells

April 2014 – September 2014: **Trainee biomedical scientist**

University of Sassari, Italy, Department of Biomedical Sciences

Responsibilities: Application of proteomic techniques (SDS-PAGE, Western blotting, Dot blotting) genomic techniques (extraction of DNA, PCR) and other techniques (Elisa, Preparation of ghost, Mass spectrometry) in research topics (hemoglobinopathies, malaria)

Advisor: Prof. Antonella Pantaleo

September 2013 –March 2014: **Trainee biomedical scientist**

University of Sassari, Italy, Department of Medicine, Laboratory of Pharmacology

Responsibilities: Construction of sensors and biosensors to apply in electrochemical techniques

Advisor: Dr. Gaia Rocchita

January 2013 –July 2013: **Volunteer trainee biomedical scientist**

Viodiagnosi (private diagnostic laboratory), Oreokastro, Greece

Responsibilities: Blood collection, Hematology analyzer systems and live blood cell analysis

Advisor: Dr. Vivi Nikolou

TECHNICAL SKILLS:

Cell Biology: Expertise in *Plasmodium falciparum*

- Cultivation of *Plasmodium falciparum* culture (strains: Palo alto, It-G, FCB1, Artemisinin resistant strain (ARS1) and G6PD-deficient strain)
- IC₅₀ measurement of antimalarial drugs, antimalarial combinations, isobologram preparation
- Fix of parasitized/red blood cells for confocal and SEM microscopy also for FACs analysis
- Use of confocal microscope (Confocal course, Leica, May 2017, Milan)
- Standard malaria microbiological diagnostic techniques: Cultural and Microscopically methods (Light and fluorescent microscopy)

Proteomics: Mono-dimensional electrophoresis, 2-D electrophoresis, Western Blot analysis, dot-blot analysis, solubilization of RBCs, ghost, serum, plasma for proteomic techniques

Oxidative stress: Estimation of oxidative stress under different pathological conditions

- Electron paramagnetic resonance with different spin trappers to detect free radicals
- ROS detection with fluorescent probe CM-H₂DCFDA in different samples
- Total antioxidant capacity measurement with Trolox method

Genetics: DNA/RNA isolation, qPCR, RT-PCR.

Clinical diagnostic: Hematology analyzer systems and live blood cell analysis; Automated analyzer system for urine analysis and microscopic examination of urinary sediment

Software: ECDL (Proficiency with Microsoft Office), CFX Manager™ Software, EndNote, EPR software

LANGUAGES:

Greek: mother language

Italian: C1 level, 2018, CELLI 4, Università di Perugia

English: C1 level, 2017, University of Cambridge

German: B1 level, 2013, Goethe Institute

AWARDS

Award of the best poster presentation with the title: ‘‘ **New antimalarial drugs on the horizon?**’’ for significant scientific contribution in the 90⁰ Congress SIBS, Trapani-Italy, 27-28 October 2017

PUBLICATIONS:

De Lucia S., Tsamesidis I, Pau M.C., Kesely K.R., Pantaleo A., Turrini F.M. **“Induction of high tolerance to Artemisinin by sub-lethal administration of drug: a new in vitro model of P. falciparum”**.

PLoS ONE, 2018 13(1): e0191084. [https:// doi.org/10.1371/journal.pone.0191084](https://doi.org/10.1371/journal.pone.0191084)

Pantaleo A., Kesely K.R., Pau M.C., Tsamesidis I., Schwarzer E., Skorokhod O.A., Chien H.D., Ponzi M., Bertuccini L., Low P.S., Turrini F.M. **“Syk inhibitors interfere with erythrocyte membrane modification during P falciparum growth and suppress parasite egress”**.

Blood. 2017 Aug 24;130(8):1031-1040. [doi: 10.1182/blood-2016-11-748053](https://doi.org/10.1182/blood-2016-11-748053)

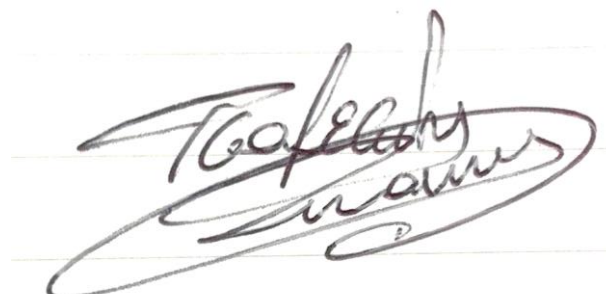
Tsamesidis I., Fozza C., Vagdatli E., Kalpaka A., Cirotto C., Pantaleo A., Pau M.C., Turrini F.M. Grigoriou E. and Lymperaki E. **“Total antioxidant capacity in Mediterranean β - Thalassemic patients”**. *Advances in Clinical and Experimental Medicine* ,2017, vol. 26, nr 5, August, p. 789–793 [doi: 10.17219/acem/63746](https://doi.org/10.17219/acem/63746)

Pau M.C., Pantaleo A., Tsamesidis I., Phan H.G, Marchetti G., Fiori P.L., Turrini F.M and Chien H.D.

“Evaluation of the impact of artemisinin resistance markers on the clinical efficacy of the antimalarial dihydroartemisinin-piperaquine therapy in Vietnam”. (Under revision)

Tsamesidis I., Reybier K., Marchetti G., Pau MC, De Lucia S., Viridis P., Fozza C., Nepveu F., Pantaleo A., Turrini FM **“Syk inhibitors cause hemichrome accumulation in the Plasmodium falciparum parasitized erythrocytes determining a synergic activation of artemisinins”** (Under preparation)

Tsamesidis Ioannis / Τσαμεσιδης Ιωάννης

A handwritten signature in dark ink, written in a cursive style. The signature appears to read 'Tsamesidis Ioannis' and is written over a set of horizontal lines.

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