

TATSI ELIZABETH - BARBARA

Biologist, MSc, PhD

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EDUCATION - WORKSHOPS

- 06/2016-02/2020 **PhD in Molecular Endocrinology**, Medical School, National and Kapodistrian University of Athens (NKUA)
Thesis: "Application of Next Generation Sequencing (NGS) Methodologies in the Diagnosis of Genetic Endocrinological Diseases"
- 03/2019 **A UCSC Genome Browser workshop**, Hellenic Society of Medical Genetics, Athens, Greece
- 11/2015-01/2016 **Bioinformatics: Genomes and Algorithms** by Inria (Informatics mathematics) and the platform FUN (France Universite Numerique)
- 10/2015 **OMICS SCHOOL**, Biomedical Research Foundation of the Academy of Athens and Neurinox, Athens, Greece
- 02/2014-02/2016 **MSc in Molecular Medicine**, Medical School, NKUA
Thesis: "Mutation detection of the KCNJ11 and PCBD1 genes in patients with MODY"
- 10/2007-01/2013 **Department of Biology**, School of Science, NKUA
Thesis: "Enzymatic characterization of mutant forms of human RNase κ"

WORK EXPERIENCE

- 11/2019-Today **Division of Infectious Diseases and Chemotherapy**, First Department of Pediatrics Medical School, National and Kapodistrian University of Athens, "Aghia Sophia" Children's Hospital
- 07/2015-08/2017 **Division of Endocrinology, Metabolism & Diabetes**, First Department of Pediatrics, Medical School, National and Kapodistrian University of Athens, "Aghia Sophia" Children's Hospital
- 07-10/2013 **Division of Immunology**, General Hospital of Nikaia - Piraeus "Saint Panteleimon" (volunteer work)
- 03-06/2013 **Division of Biochemistry**, "Aghia Sophia" Children's Hospital (volunteer work)

SCHOLARSHIP

- 2021 **Award: 2ND PLACE**, 2021 IDea Incubator Finalist to Cell-Based Bio-Electric Biosensor for the Detection of the SARS-CoV-2 S1 Spike Protein Antigen Team.
- 08/2017-06/2019 **1st PhD Fellowship grant** by the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT)

PUBLICATIONS

- Filippatos F, **Tatsi EB**, Dellis C, Efthymiou V, Margeli A, Papassotiriou I, Syriopoulou V, Michos A. Seroepidemiology of SARS-CoV-2 in pediatric population during a 16-month period prior to vaccination. J Med Virol. 2022 Jan 21. doi: 10.1002/jmv.27608. Epub ahead of print. PMID: 35064572.
- Filippatos F, **Tatsi EB**, Dellis C, Dessypris N, Syriopoulou V, Michos A. Association of clinical and epidemiological characteristics with COVID-19 BNT162b2 mRNA vaccine short-term adverse reactions in healthcare workers. Hum Vaccin Immunother. 2021 Nov 30;1-6. doi: 10.1080/21645515.2021.1985356. Epub ahead of print. PMID: 34847819.
- Tatsi EB**, Philippatos F, Michos A. SARS-CoV-2 variants and effectiveness of vaccines: a review of current evidence. Epidemiol Infect. 2021 Nov 4;149:e237. doi: 10.1017/S0950268821002430. PMID: 34732275.
- Filippatos F, **Tatsi EB**, Michos A. Immune response to SARS-CoV-2 in children: A review of the current knowledge. Pediatr Investig. 2021 Aug 17;5(3):e12283. doi: 10.1002/ped4.12283. Epub ahead of print. PMID: 34540321; PMCID: PMC8441939.
- Michos A, **Tatsi EB**, Philippatos F, Dellis C, Koukou D, Efthymiou V, Kastrinelli E, Mantzou A, Syriopoulou V. Association of total and neutralizing SARS-CoV-2 spike -receptor binding domain antibodies with epidemiological and clinical characteristics after immunization with the 1st and 2nd doses of the BNT162b2 vaccine. Vaccine. 2021 Sep 24;39(40):5963-5967. doi: 10.1016/j.vaccine.2021.07.067. Epub 2021 Jul 24. PMID: 34400017; PMCID: PMC8302834.
- Mavrikou S, Tsekouras V, Hatziagapiou K, Paradeisi F, Bakakos P, Michos A, Koutsoukou A, Konstantellou E, Lambrou GI, Koniari E, **Tatsi EB**, Papaparaskevas J, Iliopoulos D, Chrousos GP, Kintzios S. Clinical Application of the Novel Cell-Based Biosensor for the Ultra-Rapid Detection of the SARS-CoV-2 S1 Spike

- Protein Antigen: A Practical Approach. Biosensors (Basel). 2021 Jul 6;11(7):224. doi: 10.3390/bios11070224. PMID: 34356695; PMCID: PMC8301797.
7. Posnakoglou L*, **Tatsi EB***, Sihanidou T, Syriopoulou V, Michos A. Genetic Variations in Human Parechovirus Type 3 in Infants with Central Nervous System Infection. *Virol Sin.* 2021 Jul 26. doi: 10.1007/s12250-021-00426-3. Epub ahead of print. PMID: 34309823.
 8. **Tatsi EB**, Dellis C, Petridou E, Banou K, Zachariadou L, Syriopoulou V, Michos A. SARS-CoV-2 seroepidemiological study in healthcare workers and discordant results using seven different diagnostic methods. *Infection.* 2021 Jul 5:1–6. doi: 10.1007/s15010-021-01653-2. Epub ahead of print. PMID: 34224078; PMCID: PMC8256773.
 9. Posnakoglou L, **Tatsi EB**, Chatzichristou P, Sihanidou T, Kanaka-Gantenbein C, Syriopoulou V, Michos A. Molecular Epidemiology of Enterovirus in Children with Central Nervous System Infections. *Viruses.* 2021 Jan 13;13(1):100. doi: 10.3390/v13010100. PMID: 33450832; PMCID: PMC7828273.
 10. Vlachopapadopoulou EA, Dikaiakou E, Fotiadou A, Sifianou P, **Tatsi EB**, Sertedaki A, Kanaka-Gantenbein C, Michalacos S. Detection of hepatocyte nuclear factor 4A (*HNF4A*) gene variant as the cause for congenital hyperinsulinism leads to revision of the diagnosis of the mother. *J Pediatr Endocrinol Metab.* 2020 Oct 8;34(4):527-530. doi: 10.1515/jpem-2020-0302. PMID: 33031054.
 11. **Tatsi EB**, Kanaka-Gantenbein C, Scorilas A, Chrousos GP, Sertedaki A. Next generation sequencing targeted gene panel in Greek MODY patients increases diagnostic accuracy. *Pediatr Diabetes.* 2020 Feb;21(1):28-39. doi: 10.1111/peidi.12931. Epub 2019 Nov 10. PMID: 31604004.
 12. Koufakis T, Sertedaki A, **Tatsi EB**, Trakatelli CM, Karras SN, Manthou E, Kanaka-Gantenbein C, Kotsa K. First Report of Diabetes Phenotype due to a Loss- of-Function *ABCC8* Mutation Previously Known to Cause Congenital Hyperinsulinism. *Case Rep Genet.* 2019 Apr 11;2019:3654618. doi: 10.1155/2019/3654618. PMID: 31110826; PMCID: PMC6487141.
 13. Patsaoura A, **Tatsi E**, Margeli A, Kanavaki I, Delaporta P, Kyriakopoulou D, Kouraklis-Symeonidis A, Kattamis A, Papassotiriou I. Plasma neutrophil gelatinase-associated lipocalin levels are markedly increased in patients with non-transfusion-dependent thalassemia: Lack of association with markers of erythropoiesis, iron metabolism and renal function. *Clin Biochem.* 2014 Aug;47(12):1060-4. doi: 10.1016/j.clinbiochem.2014.03.017. Epub 2014 Apr 8. PMID: 24721683.

ORAL (9) AND POSTER (16) PRESENTATIONS

11/2021 19th National Congress of Clinical Chemistry, Athens, Greece

- “Seroepidemiological study for SARS-CoV-2 in pediatric population during the first 16 months of the pandemic” Filippatos F, Tatsi EB et al. Oral Presentation

05/2021 39th European Society for Paediatric Infectious Diseases 2021

- “SARS-CoV-2 seroepidemiology in pediatric population during the first year of the pandemic”, Filippatos F, **Tatsi EB** et al. ePoster presentation
- “Seroepidemiology of SARS-CoV-2 in healthcare workers of a tertiary Pediatric Hospital and comparison of different antibody detection methods”, Tatsi EB et al. ePoster presentation
- “Changes in Rotavirus molecular epidemiology during the post vaccination era in Greece”, Koukou DM, **Tatsi E.B.** et al. ePoster presentation

05/2021 European Congress of Endocrinology 2021

- “Genetic characterization of MODY patients in Greece”, Sertedaki A, Fylaktou E, **Tatsi EB** et al. Poster presentation. *Endocrine Abstracts (2021) 73 OC2.5 | DOI: 10.1530/endoabs.73.OC2.5*

12/2020 2nd National Congress of Pediatric Infectious Diseases, Thessaloniki, Greece

- “Seroepidemiological study of COVID-19 in the pediatric population”, **E.B. Tatsi** et al. Oral Presentation
- “SARS-CoV-2 seroepidemiological study in healthcare workers and comparison of results of different diagnostic antibody detection methods”, **E.B. Tatsi** et al. Oral Presentation
- “Molecular epidemiology of Enteroviruses and Parechovirus associated with Central Nervous System infections in childhood”, L. Posnakoglou, **E.B. Tatsi**, et al. Oral Presentation

10/2020 38th European Society for Paediatric Infectious Diseases 2020

- “Molecular genotyping of enteroviruses associated with central nervous system infections in Athens, Greece” L. Posnakoglou, V. Syriopoulou, **E.B. Tatsi** et al. ePoster presentation
- “Clinical characteristics and molecular genotyping of human parechovirus causing central nervous system infections in neonates” L. Posnakoglou, **E.B. Tatsi** et al. ePoster presentation

10/2020 Infectious Diseases Week 2020

- “Unexpected Diversity of Rotavirus Genotypes in Pediatric Population”, D. Koukou, P. Chatzichristou, **E.B. Tatsi** et al. ePoster and Oral Presentation. *Open Forum Infect Dis.* 2020; 7(Suppl 1): S399. doi: 10.1093/ofid/ofaa439.886

03/2020 20th National Congress of Infectious Diseases

- “Epidemiology of rotavirus gastroenteritis in Greece: Comparison of early and late vaccination period” D.M. Koukou, P. Chatzichristou, E.B. Tatsi, et al. Pster Presentation
- “Molecular Epidemiology of Enterovirus and Parechovirus associated to Central Nervous System infections” L. Posnakoglou, E.B. Tatsi, et al. Poster Presentation

09/2019 58th Annual Meeting of European Society of Pediatric Endocrinology, Vienna, Austria

- “Whole Exome Sequencing (WES) reveals oligogenic gene mutations in a case of Combined Pituitary Hormone Deficiency (CPHD)”, A. Sertedaki, **E.B. Tatsi**, E. Nikaina, et al. Poster Presentation. *ESPE Abstracts (2019) 92 P1-118*
- “Next Generation Sequencing in Greek MODY patients increases diagnostic accuracy and reveals a high percentage of MODY12 cases”, **E.B. Tatsi**, A. Sertedaki, A. Scorilas, et al. Oral Presentation. *ESPE Abstracts (2019) 92 FC1.3*

05/2019 21st European Congress of Endocrinology, Lyon, France

- “Large phenotypic variability of diabetes due to *ABCC8* gene mutation illustrated by the paradigm of a family”, T. Koufakis, A. Sertedaki, **E.B. Tatsi**, et al. Poster Presentation. *Endocrine Abstracts (2019) 63 P192 | DOI: 10.1530/endoabs.63.P192*
- “Next generation sequencing reveals *ABCC8* (MODY 12) variants in two families with diabetes mellitus (DM)”, A. Markou, A. Sertedaki, **E. Tatsi**, et al. Poster Presentation. *Endocrine Abstracts (2019) 63 P620 | DOI: 10.1530/endoabs.63.P620*

04/2019 46th National Congress of Endocrinology, Metabolism and Diabetes, Athens, Greece

- “Targeted Next Generation Sequencing (NGS) in 50 patients with Monogenic Diabetes Mellitus (DM) MODY”, **E. Tatsi**. Oral Presentation
- “Large phenotypic variability of diabetes in a family, members of which carried the *ABCC8* gene mutation R1352H”, T. Koufakis, S. Karras, A. Sertedaki, **E.B. Tatsi**, et al. ePoster Presentation
- “Presentation of two different families with Diabetes Mellitus (DM) and mutations of the *ABCC8* gene (MODY12)”, A. Markou, A. Sertedaki, **E. Tatsi**, et al. ePoster Presentation

09/2018 57th Annual Meeting of European Society of Pediatric Endocrinology, Athens, Greece

- “The application of Next Generation Sequencing MODY gene panel in Greek patients”, **E. Tatsi**, P. Smirnaki, P. Triantafilou, et al. ePoster and Oral Presentation. *ESPE Abstracts (2018) 89 P-P2-074*.

01/2016 Postgraduate Courses, Division of Endocrinology, Metabolism & Diabetes, First Department of Pediatrics, Medical School, NKUA, “Aghia Sophia” Children's Hospital

- “Mutation detection of the *KCNJ11* and *PCBD1* genes in patients with MODY”, **E. Tatsi**. Oral Presentation

REVIEWING ACTIVITIES

- BMJ (2021)
- Journal of Immunological Sciences (2021)
- International Journal of Radiology and Radiation Oncology (2021)

MEMBERSHIP

- Society for the Prevention and Treatment of Infection (2020-Today)
- Hellenic Society of Medical Genetics (2019)

USE OF PROGRAMS

- Primer 3, BLAST, Chromas, Mutation Taster, SIFT, PolyPhen2, Panther, Grantham, UMD, LRT, Mutation Assessor, DANN, GERP, FATHMM, FATHMM-MKL, MetaSVM, MetaLR, Provean, VEST3, CADD, STRING, Kegg, GeneMANIA, Varsome, dbSNP, ClinVar, HGMD, HSF, VarAFT, GenBank, MEGA-X, RDP, SPSS, Mendeley

SEQUENCE REGISTRATION

GenBank: MW980885, MW879753, MW892734, MW928498, MZ153238, MZ277868, MZ277869, MZ277870, MZ277871, MW413318, MW413319, MZ173503, MZ173504, MZ147501

PERSONAL SKILLS

- Greek (native language)
- English (Certificate of Proficiency in English, University of Michigan / C2)
- Italian (Certificate Statale di Conoscenza delle Lingue / B1)
- ECDL Core Certificate