

## D. Jacopo Troisi

### Education

**Medicine and Surgery Faculty**, University of Salerno, Salerno, Italy

Master of Science Degree in Medicine and Surgery

**Master in Data Analysis**, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health (COURSERA), Baltimore, MA, USA

School Course of Multivariate Analysis, Department of Chemistry, University of Roma "La Sapienza", Roma, Italy

**Biotechnology Science Faculty**, University "Federico II", Naples, Italy

Degree in Biotechnology, industrial address

**ITIS**, B.Focaccia, Salerno, Italy

High School Diploma

### Work Experience

*From 2020* **Professor of Metabolomics, Department of Science and Technology**, University of Sannio, Benevento, Italy

*From 2020* **Professor of Omics Techniques, Department of Chemistry and Biology "A. Zambelli"**, University of Salerno, Salerno, Italy

*2019-2021* **Professor for Ph.D programme in translational medicine**, University of Salerno, Salerno, Italy

*From 2019* **Chief Operating Officer - COO**, European Biomedical Research Institute of Salerno (EBRIS) Foundation, Salerno, Italy

*From 2018* **Chief Scientific Officer - CSO**, Hosmotic srl, Naples, Italy

*From 2016* **Expert for scientific projects evaluation**, European Commission - Research Executive Agency, Bruxelles, Belgium

*From 2015* **Chief Executive Officer - CEO**, Theoreo srl - Spin-off of the University of Salerno, Salerno, Italy

*2007-2017* **Chemist**, Merchandise-chemical laboratory -"Camera di Commercio"- Naples, Naples, Italy

### Skills and competences

#### Communicative skills:

Good communication skills with the institutions and with the international scientific community, acquired during the experience of advisor for relations with the public administration and in the experiences gained in international research projects. Currently collaborator with three international research groups, one New Zealander led by Prof. L. McCowen, one American led by prof. S. Richards and one Chilean led by prof. E. Martinez. Selected in 2013 by the FAO (Food and Agriculture Organisation of the United Nations) from a field of international applicants to prepare the chapter "Saponins" in the book "State of the art report on quinoa around the world in 2013" published by FAO/CIRAD. Good communicative skills in human relations developed during internships medicine "at the bedside".

#### Organizational skills:

Good leadership skills. Currently responsible for a group of 10 researchers involved in research projects managed by the university spin-off company Theoreo. Good organizational skills acquired during the management of national and international research projects for public and private organizations.

#### Professional Competences:

Good skills in metabolomics. Good skills in management of research projects. Good knowledge of analytical chemistry.

### Habilitation, Subscriptions and Associations

*From 2022* Member of Metabolomics Society

*From 2021* Habilitation according to L.240/2010 as Professor (II band), class 05/E3 "Clinical biochemistry and clinical molecular biology"

*From 2020* Habilitation according to L.240/2010 as Professor (II band), class 06/N1 "Science of health professionals and applied medical technologies"

*From 2017* Member of TS (Teratology Society)

*From 2009* Member of EMS (European Microscopy Society)

### Publications - Books and book's chapters

**Jacopo Troisi** Editor. Metabolomics Perspectives - From Theory to Practical Application. Academic Press (Elsevier), London, UK. ISBN:978-0-323-85062-9  
DOI:10.1016/C2020-0-01136-9, 2022

**Jacopo Troisi** Guest Editor. Artificial Intelligence in Medicine: Disease Diagnosis, Drug Development and Treatment Personalization. Special Issue della Rivista Current Medicinal Chemistry (Bentham). DOI:10.2174/092986732832210914102719, 2022

**Jacopo Troisi** and Alessio Fasano Guest Editors. Microbiome, Probiotics and Autism: Where Do We Stand. Special Issue della Rivista Nutrients (MDPI).

Autore del capitolo: "L'effetto della dieta sul metaboloma". Alimentazione e Donna: La nutrizione nelle varie fasi della vita. E.L.I. Medica. ISBN:978-88-944929-8-9, 2022

Autore del capitolo: "Metabolomics in Parkinson's disease". Advances in Clinical Chemistry (Book Series). Academic Press (Elsevier), London, UK. ISBN:978-0-12-824622-1, 2021

Autore del capitolo: "Salivary and Urinary Metabolome in Pediatric Obesity and Metabolic Syndrome". Obesity and Diabetes (2nd edition). Springer, Cham, CH. ISBN:987-3-030-53369-4, 2020

Autore del capitolo: "Metabolomics in genetic testing". Advances in Clinical Chemistry (Book Series). Academic Press (Elsevier), London, UK. ISBN:978-0-12-820801-4, 2020

## Publications – Paper

H-Index = 32 (Google Scholar), 28 (Scopus); Citazioni = 3149 (Google Scholar), 2400 (Scopus)  
Gennaro Lettieri, Carmela Marinaro, Rosaria Notariale, Pasquale Perrone, Martina Lombardi, Alessio Trotta, **Jacopo Troisi**, Marina Piscopo. Impact of Heavy Metal Exposure on *Mytilus galloprovincialis* Spermatozoa: A Metabolomic Investigation. *Metabolites* 13(8):943 8/2023

Annamaria Landolfi, Marina Picillo, Maria Teresa Pellecchia, **Jacopo Troisi**, Marianna Amboni, Paolo Barone, Roberto Erro. Screening performances of an 8-item UPSIT Italian version in the diagnosis of Parkinson's disease. *Neurological Sciences* 44(3):889-895 3/2023

**Jacopo Troisi**, Steven JK Symes, Martina Lombardi, Pierpaolo Cavallo, Angelo Colucci, Giovanni Scala, David C Adair, Maurizio Guida, Sean M Richards. Placental Metabolomics of Fetal Growth Restriction. *Metabolites* 13(2):235 2/2023

Michele Cennamo, Evelina La Civita, Laura Sarno, Gianluigi Carbone, Sarah Di Somma, Serena Cabaro, **Jacopo Troisi**, Angelo Sirico, Francesco Paolo Improda, Maurizio Guida, Daniela Terracciano, Giuseppe Portella. Low Interferon- $\gamma$  Levels in Cord and Peripheral Blood of Pregnant Women Infected with SARS-CoV-2. *Microorganisms* 11(1):223 1/2023

Andrea Farini, Luana Tripodi, Chiara Villa, Francesco Strati, Amanda Facchetti, Guido Baselli, **Jacopo Troisi**, Annamaria Landolfi, Caterina Lonati, Davide Molinaro, Michelle Wintzinger, Stefano Gatti, Barbara Cassani, Flavio Caprioli, Federica Facciotti, Mattia Quattrocchi, Yvan Torrente. Microbiota dysbiosis influences immune system and muscle pathophysiology of dystrophin-deficient mice. *EMBO Molecular Medicine* In press 12/2022

Armando Ugo Cavallo, Carlo Di Donna, **Jacopo Troisi**, Cecilia Cerimele, Matteo Cesareni, Marcello Chiochi, Roberto Floris, Francesco Garaci. Radiomics analysis of short tau inversion recovery images in cardiac magnetic resonance for the prediction of late gadolinium enhancement in patients with acute myocarditis. *Magnetic Resonance Imaging* 94:168-173 12/2022

**Jacopo Troisi**, Martina Lombardi, Giovanni Scala, Pierpaolo Cavallo, Rennae S Taylor, Steven JK Symes, Sean M Richards, David C Adair, Alessio Fasano, Lesley M McCowan, Maurizio Guida. A screening test proposal for congenital defects based on maternal serum metabolomics profile. *American Journal of Obstetrics and Gynecology* In press 09/2022

**Jacopo Troisi**, Antonio Mollo, Martina Lombardi, Giovanni Scala, Sean M Richards, Steven JK Symes, Antonio Travaglino, Daniele Neola, Umberto de Laurentiis, Luigi Insabato, Attilio Di Spiezio Sardo, Antonio Raffone, Maurizio Guida. The Metabolomic Approach for the Screening of Endometrial Cancer: Validation from a Large Cohort of Women Scheduled for Gynecological Surgery. *Biomolecules* 12(9):1299 DOI: 10.3390/foods11030436 09/2022

Paola Pontieri, **Jacopo Troisi**, Matteo Calcagnile, Scott R Bean, Michael Tilley, Fadi Aramouni, Antonio Boffa, Giacomo Pepe, Pietro Campiglia, Fabio Del Giudice, Alberto L Chessa, Dmitriy Smolensky, Mariarosaria Aletta, Pietro Alifano, Luigi Del Giudice. Chemical composition, fatty acid and mineral content of food-grade white, red and black sorghum varieties grown in the mediterranean environment. *Foods* 11(3):436 DOI: 10.3390/foods11030436 02/2022

Armando Ugo Cavallo, **Jacopo Troisi**, Emanuele Muscogiuri, Pierpaolo Cavallo, Sanjay Rajagopalan, Rodolfo Citro, Eduardo Bossone, Niall McVeigh, Valerio Forte, Carlo Di Donna, Francesco Giannini, Roberto Floris, Francesco Garaci, Massimiliano Sperandio. Cardiac Computed Tomography Radiomics-Based Approach for the

Detection of Left Ventricular Remodeling in Patients with Arterial Hypertension.

Diagnostics 12(2):322 DOI: 10.3390/diagnostics12020322 01/2022

**Jacopo Troisi**, Maria Tafuro, Martina Lombardi, Giovanni Scala, Sean M Richards, Steven JK Symes, Paolo Antonio Ascierio, Paolo Delrio, Fabiana Tatangelo, Carlo Buonerba, Biancamaria Pierri, Pellegrino Cerino. A Metabolomics-Based Screening Proposal for Colorectal Cancer. *Metabolites* 12(2):110 DOI: 10.3390/metabo12020110 01/2022

**Jacopo Troisi**, Sean M Richards, Giovanni Troisi, Giovanni Scala. Techniques for converting metabolomic data for analysis. In *Metabolomics Perspectives* pag. 265-285, editor: Academic Press 01/2022

**Jacopo Troisi**, Sean M Richards, Giovanni Scala, Annamaria Landolfi. Approaches in untargeted metabolomics. In *Metabolomics Perspectives* pag. 237-262, editor: Academic Press 01/2022

**Jacopo Troisi**, Giovanni Troisi, Giovanni Scala, Sean M Richards. Data analysis in metabolomics: from information to knowledge. In *Metabolomics Perspectives* pag. 287-379, editor: Academic Press 01/2022

Allycia Y Lee, **Jacopo Troisi**, Steven JK Symes Experimental design in metabolomics. In *Metabolomics Perspectives* pag. 27-61, editor: Academic Press 01/2022

Francesco Strati, Meritxell Pujolassos, Claudia Burriello, Maria Rita Giuffre, Georgia Lattanzi, Flavio Caprioli, **Jacopo Troisi**, Federica Facciotti. Antibiotic-associated dysbiosis affects the ability of gut microbiota to control intestinal inflammation upon fecal microbiota transplantation in experimental colitis models. *Microbiome* 9(39) DOI: 10.1186/s40168-020-00991-x 02/2021 12/2021

Nicolò Pernigoni, Elena Zagato, Arianna Calcinotto, Martina Troiani, Ricardo Pereira Mestre, Bianca Calì, Giuseppe Attanasio, **Jacopo Troisi**, Mirko Minini, Simone Mosole, Ajinkya Revandkar, Emiliano Pasquini, Angela Rita Elia, Daniela Bossi, Andrea Rinaldi, Pasquale Rescigno, Penny Flohr, Joanne Hunt, Antje Neeb, Lorenzo Buroni, Christina Guo, Jonathan Welti, Matteo Ferrari, Matteo Grioni, Josée Gauthier, Raad Z Gharaibeh, Anna Palmisano, Gladys Martinetti Lucchini, Eugenia D'Antonio, Sara Merler, Marco Bolis, Fabio Grassi, Antonio Esposito, Matteo Bellone, Alberto Briganti, Maria Rescigno, Jean-Philippe Theurillat, Christian Jobin, Silke Gillessen, Johann De Bono, Andrea Alimonti. Commensal bacteria promote endocrine resistance in prostate cancer through androgen biosynthesis. *Science* 374(6564), 216-224 DOI:10.1126/science.abf840 10/2021

Martina Lombardi, **Jacopo Troisi**. Gut reactions: How far are we from understanding and manipulating the microbiota complexity and the interaction with its host? Lessons from autism spectrum disorder studies. *Nutrients* 13(10):3492 DOI: 10.3390/nu13103492 09/2021

**Jacopo Troisi**. Artificial Intelligence in Medicine: Disease Diagnosis, Drug Development and Treatment Personalization. *Current Medicinal Chemistry* 28(32):6509-6511 DOI: 10.2174/092986732832210914102719 09/2021

Annamaria Landolfi, Carlo Ricciardi, Leandro Donisi, Giuseppe Cesarelli, Jacopo Troisi, Carmine Vitale, Paolo Barone, Marianna Amboni. Machine Learning Approaches in Parkinson's Diseases. *Current Medicinal Chemistry* 28(32):6548-6568 DOI: 10.2174/0929867328999210111211420 09/2021

Armando U Cavallo, **Jacopo Troisi**, Marco Forcina, Pier-Valerio Mari, Valerio Forte, Massimiliano Sperandio, Sergio Pagano, Pierpaolo Cavallo, Roberto Floris, Francesco Garaci. Texture analysis in the evaluation of Covid-19 pneumonia in chest X-ray images: a proof of concept study. *Current Medical Imaging* 17(9):1094-1102 DOI: 10.2174/1573405617999210112195450 08/2021

Antonietta Santoro, Marika Scafuro, **Jacopo Troisi**, Giuseppe Piegari, Paola Di

Pietro, Elena Mele, Donato Cappetta, Marianna Marino, Antonella De Angelis, Carmine Vecchione, Orlando Paciello, Silvia Fasano, Riccardo Pierantoni, Andrea Viggiano, Rosaria Meccariello. Multi-Systemic Alterations by Chronic Exposure to a Low Dose of Bisphenol A in Drinking Water: Effects on Inflammation and NAD<sup>+</sup>-Dependent Deacetylase Sirtuin1 in Lactating and Weaned Rats. *International Journal of Molecular Sciences* 22(18):9666 DOI: 10.3390/ijms22189666 08/2021  
Maureen M Leonard, Francesco Valitutti, Hireen Karathia, Meritxell Pujolassos, Victoria Kenyon, Brian Fanelli, **Jacopo Troisi**, Poorani Subramanian, Stephanie Camhi, Angelo Colucci, Gloria Serena, Salvatore Cucchiara, Chiara Maria Trovato, Basilio Malamisura, Ruggiero Francavilla, Luca Elli, Nur A Hasan, Ali R Zomorodi, Rita Colwell, Alessio Fasano, and the CD-GEMM Team. Microbiome signatures of progression toward celiac disease onset in at risk children in a longitudinal prospective cohort study. *Proceedings of the National Academy of Sciences* 118(29) DOI:10.1073/pnas.2020322118 07/2021

Katherine Olshan, Ali Zomorodi, Meritxell Pujolassos, **Jacopo Troisi**, Nayeim Khan, Brian C. Fanelli, Victoria Kenyon, Alessio Fasano, Maureen Leonard. Microbiota and Metabolomic Patterns in the Breast Milk of Subjects with Celiac Disease on a Gluten-Free Diet. *Nutrients* 13(7):2243 DOI: 10.3390/nu13072243 06/2021  
Paola Pontieri, Giacomo Pepe, Pietro Campiglia, Fabrizio Merciai, Manuela Giovanna Basilicata, Dmitriy Smolensky, Matteo Calcagnile, **Jacopo Troisi**, Roberta Romano, Fabrizio Del Giudice, Mariarosaria Aletta, Marco Guida, Pietro Alifano, Luigi Del Giudice Comparison of Content in Phenolic Compounds and Antioxidant Capacity in Grains of White, Red, and Black Sorghum Varieties Grown in the Mediterranean Area. *ACS Food Science and Technology* DOI: 10.1021/acsfoodscitech.1c00115 06/2021

**Jacopo Troisi**, Giorgia Venutolo, Meritxell Pujolassos, Matteo Delli Carri, Annamaria Landolfi, Alessio Fasano. COVID-19 and gastrointestinal tract: source of infection or merely a target of inflammatory process following SARS-CoV-2 infection?. *World Journal of Gastroenterology* 27(14):1406-1418 DOI: 10.3748/wjg.v27.i14.1406 04/2021

Irene Dini, Roberta Marra, Pierpaolo Cavallo, Angela Pironti, Immacolata Sepe, **Jacopo Troisi**, Giovanni Scala, Pasquale Lombardi, Francesco Vitale. Trichoderma Strains and Metabolites Selectively Increase the Production of Volatile Organic Compounds (VOCs) in Olive Trees. *Metabolites* 11(213) DOI: 10.3390/metabo11040213 03/2021

**Jacopo Troisi**, Angelo Colucci, Pierpaolo Cavallo, Sean M Richards, Steven J Symes, Annamaria Landolfi, Giovanni Scala, Francesco Maiorino, Alfonso Califano, Marco Fabiano, Gianmarco Silvestre, Federica Mastella, Alessandro Caputo, Antonio D'Antonio, Vincezo Altieri. A Serum Metabolomic Signature for the Detection and Grading of Bladder Cancer. *Applied Sciences* 11(2835) DOI: 10.3390/app11062835 03/2020

Alessio M Monteleone, **Jacopo Troisi**, Gloria Serena, Alessio Fasano, Riccardo Delle Grave, Giammarco Cascino, Francesca Marciello, Simona Calugi, Giovanni Scala, Giulio Corrivetti, Palmiero Monteleone. The Gut Microbiome and Metabolomics Profiles of Restricting and Binge-Purging Type Anorexia Nervosa. *Nutrients* 13(2) DOI: 10.3390/nu13020507 02/2021

Mario Masarone, **Jacopo Troisi**, Andrea Aglitti, Pietro Torre, Angelo Colucci, Marcello Dallio, Alessandro Federico, Clara Balsano, Marcello Persico. Untargeted metabolomics as a diagnostic tool in NAFLD: discrimination of steatosis, steatohepatitis and cirrhosis. *Metabolomics* 17(12) DOI: 10.1007/s11306-020-01756-1 02/2021

**Jacopo Troisi**, Pierpaolo Cavallo, Sean M. Richards, Steven J. Symes, Angelo Colucci, Laura Sarno, Annamaria Landolfi, Charles David Adair, Carla Ciccone, Giuseppe Maria Maruotti, Paquale Martinelli, Maurizio Guida. Non-invasive screening for congenital heart defects using a serum metabolomics approach. *Prenatal Diagnosis* 41(21) DOI: 10.1002/pd.5893 01/2021

Armando Cavallo, **Jacopo Troisi**, Marco Forcina, Pervalerio Mari, Valerio Forte, Massimiliano Sperandio, Sergio Pagano, Pierpaolo Cavallo, Roberto Floris, Francesco Garaci. Texture Analysis in the Evaluation of Covid-19 Pneumonia in Chest XRay Images: a Proof of Concept Study. *Current Medical Imaging Reviews* DOI: 10.2174/1573405617999210112195450 01/2021

Annamaria Landolfi, Carlo Ricciardi, Leandro Dionisi, Giuseppe Cesarelli, Jacopo Troisi, Cosimo Vitale, Paolo Barone, Marianna Amboni. Machine Learning Approaches in Parkinson's Disease. *Current Medicinal Chemistry* DOI: 10.2174/0929867328999210111211420 01/2021

**Jacopo Troisi**, Giorgia Venutolo, Concetta Terracciano, Matteo Delli Carri, Simone Di Micco, Annamaria Landolfi, Alessio Fasano. The therapeutic use of the zonulin inhibitor AT-1001 (Larazotide) for a variety of acute and chronic inflammatory diseases. *Current Medicinal Chemistry*, 28 DOI: 10.2174/0929867328666210104110053 01/2021

**Jacopo Troisi**, Francesca Marciano, Giovanni Scala, Elizabeth Plunk, Luca Pierri, Angelo Colucci. Salivary and Urinary Metabolome in Pediatric Obesity and Metabolic Syndrome. In book: *Obesity and Diabetes* Publisher: Springer DOI: 10.1007/978-3-030-53370-0-19 12/2020

Paola Pontieri, **Jacopo Troisi**, Roberta Romano, Graziano Pizzolante, Scott R Bean, Michael Tilley, Mario Motto, Mariarosaria Aletta, Fabio Del Giudice, Mario Sicardi, Pietro Alifano, Luigi Del Giudice. Nutritional composition of a selected white foodgrade waxy sorghum variety grown in Mediterranean environment. *Australian Journal of Crop Science* 14(9):1525-1532 DOI: 10.21475/ajcs.20.14.09.p2783 10/2020

**Jacopo Troisi**, Annamaria Landolfi, Pierpaolo Cavallo, Francesca Marciano, Paolo Barone, Marianna Amboni. Metabolomics in Parkinson's disease. In book: *Advances in Clinical Chemistry* Publisher: Elsevier DOI: 10.1016/bs.acc.2020.09.003 10/2020

**Jacopo Troisi**, Reija Autio, Thanos Beopoulos, Carmela Bravaccio, Federica Carraturo, Giulio Corrivetti, Stephen Cunningham, Samantha Devane, Daniele Fallin, Serguei Fetissov, Manuel Gea, Antonio Giorgi, Francois Iris, Lokesh Joshi, Sarah Kadzielski, Aletta Kraneveld, Himanshu Kumar, Christine Ladd-Acosta, Geraldine Leader, Arlene Mannion, Elise Maximin, Alessandra Mezzelani, Luciano Milanese, Laurent Naudon, Lucia N. Peralta Marzal, Paula Perez Pardo, Naika Z Prince, Sylvie Rabot, Guus Roeselers, Christophe Roos, Lea Roussin, Giovanni Scala, Francesco Paolo Tuccinardi, Alessio Fasano. Genome, Environment, Microbiome and Metabolome in Autism (GEMMA) Study Design: Biomarkers Identification for Precision Treatment and Primary Prevention of Autism Spectrum Disorders by an Integrated Multi-Omics Systems Biology Approach. *Brain Sciences* 10(10):743 DOI: 10.3390/brainsci10100743 10/2020

**Jacopo Troisi**, Antonio Raffone, Antonio Travaglino, Gaetano Belli, Carmen Belli, Santosh Anand, Luigi Giugliano, Pierpaolo Cavallo, Giovanni Scala, Steven J Symes, Sean M richards, Charles David Adair, Alessio Fasano, Vincenzo Bottigliero, Maurizio Guida. Development and Validation of a Serum Metabolomic Signature for Endometrial Cancer Screening in Postmenopausal Women. *AMA Network Open* 3(9) DOI: 10.1001/jamanetworkopen.2020.18327 09/2020

Michela Terlizzi, Antonio Molino, Chiara Colarusso, Pasquale Somma, Ilaria De Rosa, **Jacopo Troisi**, Giovanni Scala, Rosario Salvi, Aldo Pinto, Rosalinda Sorrentino.

Altered lung tissue lipidomic profile in caspase-4 positive non- small cell lung cancer (NSCLC) patients. *Oncotarget* 11(38):3515-352 DOI: 10.18632/oncotarget.27724 09/2020

Maureen M Leonard, Hiren Karathia, Meritxell Pujolassos, **Jacopo Troisi**, Francesco Valitutti, Poorani Subramanian, Stephanie Camhi, Victoria Kenyon, Angelo Colucci, Gloria Serena, Salvatore Cucchiara, Monica Montuori, Basilio Malamisura, Ruggiero Francavilla, Luca Elli, Brian Fanelli, Rita Colwell, Nur Hasan, Ali R Zomorodi, Alessio Fasano, CDGEMM Study Team. Multi-omics analysis reveals the influence of genetic and environmental risk factors on developing gut microbiota in infants at risk of celiac disease. *Microbiome* In press 08/2020

Alessio M Monteleone, **Jacopo Troisi**, Alessio Fasano, Riccardo Delle Grave, Francesca Marciello, Gloria Serena, Simona Calugi, Giovanni Scala, Giulio Corrivetti, Giammarco Cascino, Palmiero Monteleone, Mario Maj. Multi-omics Data Integration in Anorexia Nervosa Patients Before and After Weight Regain: a Microbiome-Metabolomics Investigation. *Clinical Nutrition* DOI: 10.1016/j.clnu.2020.07.021 06/2020

Armando Ugo Cavallo, **Jacopo Troisi**, Marco Forcina, Piervalerio Mari, Valerio Forte, Massimiliano Sperandio, Sergio Pagano, Pierpaolo Cavallo, Roberto Floris, Francesco Garaci. Texture Analysis in the Evaluation of Covid-19 Pneumonia in Chest X-Ray Images: a Proof of Concept Study. *Research Square preprint* DOI: 10.21203/rs.3.rs-37657/v1 06/2020

Margot De Marco, **Jacopo Troisi**, Luigi Giugliano, Alessandra Rosati, Antonio D'Antonio, Roberta Iaccarino, Mario Capunzo, Francesco Salzano, Rosanna Martinelli, Pierpaolo Cavallo, Maurizio Guida, Liberato Marzullo. BAG3 interacts with p53 in endometrial carcinoma. *Cellular Oncology* 06/2020

**Jacopo Troisi**, Pierpaolo Cavallo, Mario Masarone, Immacolata Sepe, Giovanni Scala, Pietro Campiglia, Francesco De Caro, Giovanni Boccia, Carolina Ciacci, Sergio Poto, Pasquale Pagliano, Marcello Persico. Serum metabolomic profile of symptomatic and asymptomatic SARS-CoV-2 infected patients. *Research Square preprint* DOI: 10.21203/rs.3.rs-34085/v1 06/2020

Paola Roggero, Nadia Liotto, Chiara Pozzi, Daniele Braga, **Jacopo Troisi**, Camilla Menis, Maria Lorella Gianni, Roberto Berni Canani, Lorella Paparo, Rita Nocerino, Andrea Budelli, Fabio Mosca, Maria Rescigno. Analysis of immune, microbiota and metabolome maturation in infants in a clinical trial of *Lactobacillus paracasei* CBA L74-fermented formula. *Nature Communications* 06/2020

Antonio Raffone, **Jacopo Troisi**, Dominga Boccia, Antonio Travaglino, Giovanfrancesco Capuano, Luigi Insabato, Antonio Mollo, Maurizio Guida, Fulvio Zullo.

Metabolomics in endometrial cancer diagnosis: a systematic review. *Acta Obstetrica et Gynecologica Scandinavica* 03/2020

Elena Zagato, Chiara Pozzi, Alice Bertocchi, Tiziana Schioppa, Fabiana Saccheri, Silvia Guglietta, Bruno Fosso, Laura Melocchi, Giulia Nizzoli, **Jacopo Troisi**, Marinella Marzano, Bianca Oresta, Ilaria Spadoni, Koji Atarashi, Sara Carloni, Stefania Arioli, Giulia Fornasa, Francesco Asnicar, Nicola Segata, Simone Guglielmetti, Kenya Honda, Graziano Pesole, William Vermi, Giuseppe Penna, Maria Rescigno. Endogenous murine microbiota member *Faecalibaculum rodentium* and its human homologue protect from intestinal tumour growth. *Nature Microbiology* 03/2020

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of genetic and environmental risk factors on developing gut microbiota in infants at risk of celiac disease. Research Square preprint DOI: 10.21203/rs.2.24237/v2 02/2020

M Masarone, J Troisi, A Aglitti, G Calvanese, P Torre, R Caruso, A Colucci, M Dallio, A Federico, C Balsano, M Persico. Accuracy of metabolomics profiles to non-invasively diagnose NAFLD stages and evolution by mean of machine-learning automated algorithms. Digestive and Liver Disease 02/2020

Maurizio Guida, Alessia Rega, Imma Vivone, Gabriele Saccone, Laura Sarno, Costantino Di Carlo, Carmen Imma Aquino, **Jacopo Troisi**. Variations in sleep associated with different types of hormonal contraceptives. Gynecological Endocrinology 02/2020

Carmen Imma Aquino, Gabriele Saccone, **Jacopo Troisi**, Fulvio Zullo, Maurizio Guida, Vincenzo Berghella. Use of lubricant gel to shorten the second stage of labor during vaginal delivery. The Journal of Maternal-Fetal and Neonatal Medicine 12/2019

**Jacopo Troisi**, Luigi Giugliano, Laura Sarno, Annamaria Landolfi, Sean Richards, Steven Symes, Angelo Colucci, Giuseppe Maruotti, David Adair, Marco Guida, Pasquale Martinelli, Maurizio Guida. Serum metallome in pregnant women and the relationship with congenital malformations of the central nervous system: a case-control study. BMC Pregnancy and Childbirth 12/2019

Graziamaria Corbi, Valeria Conti, **Jacopo Troisi**, Angelo Colucci, Valentina Manzo, Paola Di Pietro, Maria Consiglia Calabrese, Albino Carrizzo, Carmine Vecchione, Nicola Ferrara, Amelia Filippelli. Cardiac Rehabilitation Increases SIRT1 Activity and  $\beta$ -Hydroxybutyrate Levels and Decreases Oxidative Stress in Patients with HF with Preserved Ejection Fraction. Oxidative Medicine and Cellular Longevity 11/2019

Palmiero Monteleone, Alessio Maria Monteleone, **Jacopo Troisi**, Riccardo Dalle Grave, Giulio Corrivetti, Simona Calugi, Giovanni Scala, Giuseppina Patriciello, Adalgisa Zanetti, Mario Maj. Metabolomics signatures of acutely ill and short-term weight recovered women with anorexia nervosa. Molecular Psychiatry 11/2019

Carmen Imma Aquino, **Jacopo Troisi**, Antonio D'Antonio, Luigi Giugliano, Antonio Raffone, Laura Sarno, Gabriele Saccone, Giovanni Scala, Maurizio Guida. Endometrial Carcinoma and Bisphenol A: A Pilot Case-Control Study. Biomedical Journal of Scientific and Technical Research 10/2019

Paola Pontieri, **Jacopo Troisi**, Scott R Bean, Michael Tilley, Marco Di Salvo, Antonio Boffa, Domenico Pignone, Del Giudice, Mariarosaria Aletta, Pietro Alifano, Luigi Del Giudice. Comparison of extraction methods for isolating kafirin protein from food grade sorghum flour. Australian Journal of Crop Science 10/2019

Maurizio Guida, **Jacopo Troisi**, Gabriele Saccone, Laura Sarno, Maria Caiazza, Imma Vivone, Claudia Cinque, Carmen Imma Aquino. Contraceptive use and sexual function: a comparison of Italian female medical students and women attending family planning services. The European Journal of Contraception and Reproductive Health Care 09/2019

**Jacopo Troisi**, Pierpaolo Cavallo, Angelo Colucci, Luca Pierri, Giovanni Scala, Steven Symes, Carter Leland Jones, Sean M Richards. Metabolomics in genetic testing. In book: Advances in Clinical Chemistry Publisher: Elsevier 09/2019

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## Publications - Poster e Abstract

**Jacopo Troisi**, Martina Lombardi, Laura Sarno, Giovanni Scala, Matteo Delli Carri, Vera Abenante, Sean M. Richards, Steven J.K. Symes, Maurizio Guida. The metabolomic profiling way for the screening of fetal anomalies. 19th Annual Conference of the Metabolomics Society. Keynote session, Oral Communication, Niagara Falls (Canada) 18-22 June 2023  
Martina Lombardi, Alessio Trotta, Vera Abenante, Giovanni Scala, Sean M. Richards, Steven J.K. Symes and **Jacopo Troisi** Breaking Barriers in Cancer Screening: Integrating Metabolomic Profiling and Ensemble Machine Learning for Comprehensive Gender-Specific Cancer Detection. 19th Annual Conference of the Metabolomics Society. Poster session, Niagara Falls (Canada) 18-22 June 2023  
**Jacopo Troisi**, Martina Lombardi, Antonio Raffone, Giovanni Scala, Matteo Delli Carri, Annamaria Landolfi, Sean Richards, Steven Symes, Attilio Di Spiezio Sardo, Maurizio Guida. The metabolomic way for the screening of endometrial cancer. 4th Annual Conference of the Metabolomics Association of North America. Keynote session, Oral Communication, Edmonton, Alberta (Canada) 16-18 September 2022  
Steven Symes, Martina Lombardi, Giovanni Scala, Matteo Delli Carri, Sean M. Richards, GEMMA Consortium, **Jacopo Troisi** Genome, Environment, Microbiome and Metabolome in Autism (GEMMA) Study: Beyond Biomarker Identification for the Precision Treatment and Early Detection of Autism Spectrum Disorders. 4th Annual Conference of the Metabolomics Association of North America. Poster session, Edmonton, Alberta (Canada) 16-18 September 2022  
Martina Lombardi, Giovanni Scala, Matteo Delli Carri, Sean M. Richards, Steven J.K. Symes, Monica Cantile, Egidio Celentano, Sandro Pignata, Nicola Normanno, **Jacopo Troisi** A Metabolomics-Based Ensemble Machine Learning Approach for Comprehensive Cancer Screening. 4th Annual Conference of the Metabolomics

Association of North America. Poster session, Edmonton, Alberta (Canada) 16-18 September 2022

Sean Richards, Martina Lombardi, Steven J.K. Symes, David C. Adair, Giovanni Scala, Matteo Delli Carri, Floriana Palladino, Pierpaolo Cavallo, Lesley McCowan, Rannae Taylor, Laura Sarno, Maurizio Guida, **Jacopo Troisi** Beyond the free circulating fetal dna evaluation: a metabolomic based proposal for prenatal screening. 4th Annual Conference of the Metabolomics Association of North America. Poster session, Edmonton, Alberta (Canada) 16-18 September 2022

**Jacopo Troisi**, Martina Lombardi, Antonio Raffone, Giovanni Scala, Matteo Delli Carri, Annamaria Landolfi, Sean Richards, Steven Symes, Attilio Di Spiezio Sardo, Maurizio Guida. The metabolomic way for the screening of endometrial cancer. 18th Annual Conference of the Metabolomics Society. Keynote session, Oral Communication, Valencia (Spain) 18-24 June 2022

Steven Symes, Martina Lombardi, Giovanni Scala, Matteo Delli Carri, Sean M. Richards, GEMMA Consortium, **Jacopo Troisi** Genome, Environment, Microbiome and Metabolome in Autism (GEMMA) Study: Beyond Biomarker Identification for the Precision Treatment and Early Detection of Autism Spectrum Disorders. 18th Annual Conference of the Metabolomics Society. Poster session, Valencia (Spain) 18-24 June 2022

Martina Lombardi, Giovanni Scala, Matteo Delli Carri, Sean M. Richards, Steven J.K. Symes, Monica Cantile, Egidio Celentano, Sandro Pignata, Nicola Normanno, **Jacopo Troisi** A Metabolomics-Based Ensemble Machine Learning Approach for Comprehensive Cancer Screening. 18th Annual Conference of the Metabolomics Society. Poster session, Valencia (Spain) 18-24 June 2022

Sean Richards, Martina Lombardi, Steven J.K. Symes, David C. Adair, Giovanni Scala, Matteo Delli Carri, Floriana Palladino, Pierpaolo Cavallo, Lesley McCowan, Rannae Taylor, Laura Sarno, Maurizio Guida, **Jacopo Troisi** Beyond the free circulating fetal dna evaluation: a metabolomic based proposal for prenatal screening. 18th Annual Conference of the Metabolomics Society. Poster session, Valencia (Spain) 18-24 June 2022

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Tiziana Mariarita Granato, Daniele Coppola, Antonello Senatore, **Jacopo Troisi**. Impiego e validazione di metodi enzimatici in automatico per l'analisi di prodotti tipici. 2015; In proceeding of: XXII Congresso Internazionale di Scienza e Tecnologia degli Alimenti. Milan, Italy. Second prize, most interest poster.

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Roberta D'Aniello, **Jacopo Troisi**, Osvaldo D'Amico, Maria Sangermano, Marco Poeta, Luca Pierri, Martina Di Stasi, Grazia Massa, Pietro Vajro A Pilot Study on Novel Mechanisms Underlying Pediatric Obesity Epidemics: It is not only a food fault!. 47th Annual Meeting of the European Society for Paediatric Gastroenterology, Hepatology and Nutrition 9-12 June



## Patents

Metodo di predizione di risposta al trattamento conservativo di iperplasia endometriale atipica ed early endometrial cancer. F. Zullo, M. Guida, A. Raffone, A. Travaglino, J. Troisi, G. Saccone, L. Insabato, A. Di Spiezio Sardo, G. Bifulco Italian patent pending - domanda di brevetto per invenzione industriale - N.102020000018991

Metodo diagnostico non invasivo per l'individuazione prococe di malformazioni fetali J.

Troisi, G. Scala. Italian patent - brevetto per invenzione industriale - N.0001423755

Non invasive diagnostic test for the early diagnosis of fetal malformation J. Troisi,

G. Scala. PCT Patent Pending - PCT/EP2015/060051

Metodo per la diagnosi di carcinoma endometriale J. Troisi, G. Scala, P. Campiglia,

F. Zullo, M. Guida. Italian patent - brevetto per invenzione industriale -

N.102015000007151

Non invasive diagnostic test for the diagnosis of Endometrial Cancer J. Troisi,

G. Scala, P. Campiglia, F. Zullo, M. Guida. PCT Patent - PCT/EP2016/053726

(Francia, Germania, Irlanda, Italia, Paesi Bassi, Regno Unito, Romania, Spagna,

Svizzera

Method for the diagnosis of endometrial carcinoma J. Troisi, G. Scala, P. Campiglia,

F. Zullo, M. Guida. South Africa patent n. 2017/06438

Method for the diagnosis of endometrial carcinoma J. Troisi, G. Scala, P. Campiglia,

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## Grants

e731.915 POR Campania. Progetto: MEDEA Test - Metabolomics Approach for the Early Diagnosis of Endometrial Adenocarcinoma. Call: POR FESR 201-2020

OS3.1 05/2022 Principal Investigator

e14.200.000 European Commission H2020. Progetto: GEMMA - Genome Environment Microbiome and Metabolome in Autism. Call: H2020-SC1-BHC-03-2018

"Exploiting research outcomes and application potential of the human microbiome for personalised prediction, prevention and treatment of disease". 01/2019 Membro

dell'Advisory Board. Referente scientifico per il partner Theoreo

Via degli Ulivi,3 – Montecorvino Pugliano (SA) 84090

I +39 328 9495823 . # troisi@theoreosrl.com 20/21

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e2.000.000 Campania Regione. Strumenti di supporto alla prevenzione, diagnosi e

monitoraggio dell'obesità in età pediatrica. Call:POR FESR Campania 201/2020

O.S. 1.1 Avviso pubblico per il sostegno alle imprese nella realizzazione di studi di

fattibilità (Fase 1) e progetti di trasferimento tecnologico (Fase 2) coerenti con la

RIS3 11/2018 Principal Investigator

# VII REUNIÓN METABOLÓMICA Y CÁNCER

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## Awards

Innovation award - Teratology Society annual meeting "Mechanisms, Models, Mothers and Babies - Bring Birth Defects Research into Practice June-2018 Clearwater, Florida, USA

Young investigator Award - Teratology Society annual meeting "Mechanisms, Models, Mothers and Babies - Bring Birth Defects Research into Practice June-2018 Clearwater, Florida, USA

Young investigator Award - European Society for Paediatric Gastroenterology, Hepatology and Nutrition, May-2016 Athens, Greece