

SARA TOMMASI

BBiotech, MSc, PhD

Personal Details

Name Sara Tommasi
Date of birth 26/11/1986
Address 26 Overland Crescent, Sheidow Park, SA 5158, South Australia,
Phone (+61) 499427465
Email address sara.tommasi@flinders.edu.au
Sara.Tommasi@sa.gov.au

Achievement statements

- I have developed 8 analytical methods, synthesized more than 40 new chemical entities, and collected and analysed research data, which led to 16 publications in peer-reviewed journals and 9 posters to national and international conferences and 8 oral presentations
- Excellent interpersonal and communication skills have allowed me to establish a very good and productive collaboration with the rheumatology team and recruit 52 participants to a clinical trial in less than 5 months. Furthermore, they made me able to attract 11 new followers to the twitter account of the journal Therapeutic Advances in Drug Safety in less than 2 months from my appointment as social media editor and to give to the account the original, diverse, and personalised vibe that the editorial board was looking for.
- My versatility has allowed me to work productively in different countries, across disciplines and establish a network of ongoing national and international collaborations here in Australia and in Europe.

Expertise and personal attributes

- Expertise in developing analytical methods to measure drugs and metabolites from biological matrices, enzymes activity and to characterize the *in vitro* inhibitory potential of drug-like molecules using techniques such as HPLC-MS and UPLC-MS.
- Demonstrated experience in the use of laboratory techniques including HPLC-MS, UPLC-MS, flash column chromatography, TLC, NMR, GC and GC-MS applied to medicinal and organic chemistry and drug discovery.
- Expertise in clinical trial data coordination , including patient recruitment and clinical data collection and analysis.
- Confidence in measuring blood pressure and endothelial function related parameters, including augmentation index, pulse wave velocity, and central blood pressure and in the use of devices such as SphygmoCor® and Mobil-O-Graph®. Basic phlebotomy skills and accreditation to draw blood from study participants.
- Working knowledge and experience in microbiological and molecular biology techniques including mammalian and bacterial tissue/cell culture, PCR, cloning, transfection, transformation, western blotting, protein purification and viability and proliferation assays.
- Confidence in designing implementing and performing research activities, and in collecting, analysing and presenting research data using software such as Microsoft Office, GraphPad Prism, Enzfitter, MassLynx, HMS Client-Server, SphygmoCor® Cardiovascular Management Suite, Multi Gauge, Chemdraw, Marvin, Mestrenova and scientific databases (NCBI, Pubmed, SciFinder, Reaxys).
- Extensive experience in academic writing (scientific manuscripts for peer-reviewed publication and for rebutting reviewers' comments, fellowship and grant applications, reports, feedback to students), reviewing activity for the editorial boards MDPI and Austin Publishing Group and managing the social media profiles of the journal Therapeutic Advances in Drug Safety.
- Demonstrated experience in teaching, demonstrating and supervising undergraduate and HDR students and in using innovative teaching and learning platforms, such as Mastering A&P and IPC.
- Hard-working attitude, friendly, very good team spirit, but also ability to work independently, flexibility, adaptability, excellent communication and organization skills, knowledge and respect of WHS procedures, EEO and Ethical Conduct principles, Quality Management principles and procedures, Delegated Safety Roles and Responsibilities and National Safety and Quality Health Service Standards.

Employment History

03/02/2020 – current

Job title	Medical Scientist (MeS2)
Company name	Southern Adelaide Local Health Network
Location	Flinders Medical Centre, Room 6D215, Flinders Drive, Bedford Park SA 5042
Responsibilities	<p>I contribute to the delivery of proficient clinical and research services by:</p> <ul style="list-style-type: none">• Coordinating and implementing research and development programs within the Departments of Clinical Pharmacology and Rheumatology, specifically in drug monitoring, analytical pharmacology/chemistry and clinical trials.• Being aware of trends in metabolomics and clinical and cardiovascular pharmacology and contribute to their application to Departmental needs.• Assisting in the development of research projects to enhance new technologies and innovative treatment regimes.• Implementing SALHN Health policies relevant to research and clinical services.• Provision of high-level pharmacological and study coordination expertise to clinical trials and other Human Studies within Flinders Medical Centre.• Effective management of resources and staff within the laboratories. <p>I am also responsible for implementing the laboratory Quality Management Systems by:</p> <ul style="list-style-type: none">• Initiating development and updating of laboratory procedures.• Analysing and reviewing relevant scientific literature for application to laboratory practice.• Contributing to laboratory quality standards.• Reviewing reports prior to release from laboratory.• Validating of new methods using scientifically rigorous methods.• Commitment to achieving and complying with National Safety & Quality Health Service Standards.• Generating reports using available laboratory data to assist the laboratory manager in planning, implementing, and reporting on services. <p>Furthermore, I contribute towards Clinical Pharmacology Services continuous improvement and development programs by:</p> <ul style="list-style-type: none">• Undertaking a leadership role to work collaboratively and effectively with HOU and lead clinicians.• Contributing to the development and implementation of laboratory Quality Management System.• Undertaking quality improvement and audit activities to ensure continuous service improvement.• Applying professional judgement to select and apply new and existing methods and techniques.• Supervising placement, Honours, Master's, and PhD students• Contributing to teaching of pharmacology to medical students, resident medical officers, and nurses.• Attendance at and active participation in local and national scientific and clinical meetings by presentation of work and participation in relevant working groups.

- Producing and delivering professional in-service education programs to staff and students.
- Identifying opportunities for improvement in professional tasks and finding solutions including developing and leading quality improvement activities with laboratory staff.

Another important component of my position consist in encouraging and actively supporting a positive culture and safe work environment by:

- Role modelling a positive approach and commitment of customer service.
- Maintaining a positive team culture by actively dealing with conflict and inappropriate behaviours expediently and effectively.
- Contributing to a positive change culture by role modelling appropriate behaviours and assisting change management activities.
- Resolving local and/or immediate service delivery problems.
- Establishing and maintaining productive working relationships.
- Facilitating a team environment which promotes positivity, learning and development, safety and welfare of employees, acknowledges cultural and personal difference, and encourages creativity, innovation and honesty.
- Contributing to a safe and healthy work environment, free from discrimination and harassment by working in accordance with legislative requirements, the Code of Ethics for the South Australian Public Sector and departmental human resource policies, including WHS requirements.

26/03/2019 – current

Job title	Social Media Editor.
Company name	Sage Publishing group, Therapeutic Advances in Drug Safety
Location	1 Broadgate, London EC2M 2QS
Responsibilities	<p>I post tweets and monitor the journal Twitter account and notifications daily. I also work to increase follower numbers by ensuring content is interesting and by following relevant accounts.</p> <p>I contribute to promote Therapeutic Advances in Drug Safety content, advising SAGE when articles should be made temporarily freely available to ensure maximum impact. I also re-Tweet content, where appropriate, to increase engagement.</p> <p>I work with the Managing Editor to promote the social media program and I am responsible for live tweeting from conferences where possible.</p>

1/11/2017 – current

Job title	Casual Academic Teacher and Student Facilitator.
Company name	Flinders University, College of Medicine & Public Health
Location	Flinders University c/o Flinders Medical Centre, Room 6D215, Flinders Drive, Bedford Park SA 5042
Responsibilities	<p>As a teacher, I am responsible for cultivating the students' interest in education and development, with particular focus on pharmacology and therapeutics, cardiovascular physiology, and skills for medical scientists.</p> <p>My responsibilities include allocating and grading assignments, evaluating students' progress, planning educational activities, and using innovative teaching and learning platforms, such as Mastering A&P and IPC (Interactive Clinical Pharmacology).</p> <p>Developing and issuing educational content including notes, tests, and assignments is also an important component of my role, as well as supervising classes to ensure all students are learning in a safe and productive environment.</p> <p>I support the topic coordinators in organising supplies and resources for lectures and presentations and in planning and implementing educational activities and events. I</p>

also deliver personalised instruction to each student by encouraging interactive learning.

As a student facilitator, I also attend periodic training and orientation sessions as required by the faculty or by the topic coordinator, provide academic assistance to the assigned group of students during laboratory practicals, and help them in achieving a better understanding of the specific subject area and with improving academic and technical capabilities in the designated areas.

Additionally, I support technical staff in the logistic of laboratory practical activities by helping in the setup of the laboratory rooms, re-stocking of reagents and consumables between each session and by ensuring that the shared laboratory areas are left clean and tidy at the end of the practical.

25/09/2017 – 30/01/2020

Job title	Research Associate, Res A.
Company name	Flinders University, College of Medicine & Public Health, Department of Clinical Pharmacology
Location	Flinders University c/o Flinders Medical Centre, Room 6D215, Flinders Drive, Bedford Park SA 5042
Responsibilities	<p>The responsibilities of this jobs are still an important component of my current position as a medical scientist and they consist in:</p> <ul style="list-style-type: none">• Conducting and coordinating an investigator-initiated clinical trial funded by Medac GmbH on the effect of methotrexate on blood pressure and arterial function in patients with rheumatoid arthritis.• Recruiting study participants, arranging study visits and collecting relevant study data. In 5 months of work on this project, I succeeded to establish a very good and productive collaboration with the rheumatology consultants, registrars, nurses and administrative staff of different clinics and to recruit 52 patients for the study.• Developed expertise in drawing blood from participant, measuring blood pressure and endothelial function related parameters, including augmentation index, pulse wave velocity, and central blood pressure. I am confident in the use of devices such as SphygmoCor® and Mobil-O-Graph® for the measurement of cardiovascular parameters.• Contribution to the analysis of research findings and their dissemination in different forms, including publication in peer-review journals, poster and oral presentations.• Development of highly sensitive and robust UPLC-MS assays to measure endogenous compounds and drugs from plasma and other complex biological matrices.

Parallel projects I contributed and provided expertise to (and are still part of my current position) involve the:

- investigation of the potential of methotrexate to restore endothelial nitric oxide synthase's activity in cellular models of endothelial dysfunction
- investigation of the role of dimethylarginine dimethylaminohydrolase (DDAH) and the therapeutic potential of DDAH1 inhibition in triple negative breast cancer, behavioural disorders, pulmonary fibrosis and other pathological conditions characterized by inflammation.
- characterization of the inhibitory potential of synthetic compounds on the enzymes DDAH1 and arginase 1 and 2
- study of DDAH2 structure and investigation of alternative substrates
- investigation of DDAH1 and DDAH2 binding partners

In addition, I provided support to other academics and staff members, participate in the supervision of Honours, Masters and PhD students and I applied for grants and assisted other colleagues in the preparation of grant applications by contributing to the identification of research questions and providing technical expertise in the measurement of biological markers and enzyme activity.

24/02/2015 – 24/9/2017

Job title Research Officer, HEO 6.

Company name Flinders University, Faculty of Medicine Nursing and Health Sciences, Department of Clinical Pharmacology (Flinders Medical Science & Technology)

Location Flinders University c/o Flinders Medical Centre, Room 6D215, Flinders Drive, Bedford Park SA 5042

Responsibilities

I developed 7 robust and sensitive UPLC-MS methods for the detection and quantification of synthetic drugs and naturally occurring small compounds.

I designed, performed and analysed experiments for the characterisation of the recombinant enzyme DDAH1, its substrates and the mode of inhibition of a variety of synthetic and naturally occurring compounds.

I established, cultured and harvested mammalian cell lines transfected with the nNOS, eNOS, iNOS, ARG1, ARG2 and several DDAH 1 and DDAH2 mutant genes for recombinant expression, immunological detection and *in vitro* kinetic characterisation.

I performed microbiological and molecular manipulation utilising techniques including mammalian and bacterial tissue/cell culture, PCR, cloning, transfection, transformation, western blotting, protein purification, viability and proliferation assays.

I provided research assistance, support, and experimental and technical expertise to projects testing the effects of the new chemical entities I have previously generated in cellular models of neurodegeneration and cancer.

I analysed, critically appraised, and presented data using various software platforms (Microsoft Office, Enzfitter, MassLynx, Multi Gauge, Chemdraw, Marvin, Mestrenova, SciFinder, GraphPad).

I have presented poster and/or oral presentations at national and international scientific conferences, congresses and meetings.

I formatted, wrote, and edited scientific manuscripts for peer-reviewed publication, in addition to rebutting reviewers' comments.

I assisted in the preparation of the seeding grant entitled "DIMETHYLARGININE DIMETHYLAMINOHYDROLASE 1 (DDAH-1) INHIBITORS: DEVELOPING A NEW CLASS OF ANTI-ANGIOGENIC DRUGS FOR THE TREATMENT OF CANCER" (Grant Category: Faculty of Medicine, Nursing and Health Sciences Small Grants). Role: Associate Investigator, amount awarded: AUD \$19,000.00.

22/10/2013-21/12/2013

Job title Early-stage researcher for the Marie Curie Industry-Academic Partnership and Pathways Project "Mapping the Brain with PET Radiolabeled Cannabinoid CB1 Ligands PET BRAIN".

Company name Neuroscienze Pharmaness S.c.a.r.l.

Location Loc. Piscinamanna, 09010, Pula (Cagliari), Italy

Responsibilities I synthesized, purified and characterized the chemical structures of two novel cannabinoid ligands using organic and analytical chemistry techniques, including, but not limited to TLC, flash column chromatography, NMR and MS.

Teaching and supervision

2024

Semester 1

- Co-supervisor of a PhD and an AD medical student, adjunct supervisor of another PhD student

2023

Semester 1

- Mentoring for the 'meeting with the scientist' activity of the BTEC8002 Molecular Biotechnology topic
- Co-supervisor of AD medical student and adjunct supervisor of a PhD student

2023

Semester 2

- Co-supervisor of AD medical student and adjunct supervisor of a PhD student

2022

Semester 1

- Facilitating and assisting with grading for MDSC3000 Skills for Medical Scientists 3
- Mentoring for the 'meeting with the scientist' activity of the BTEC8002 Molecular Biotechnology topic
- Adjunct supervisor of a PhD student

Semester 2

- Lecturing for MMED3936 Human Pharmacology and Therapeutics and MMED3940 Ocular Pharmacology and Therapeutics
- Facilitating for MDSC2000 Skills for Medical Scientists 2
- Marking for MDSC2000 Skills for Medical Scientists 2
- Adjunct supervisor of a PhD student

2021

Semester 1

- Assisting with running the College of medicine and public Health (CMPH) Honours Journal Club
- Examiner for a CMPH Honours student
- Primary supervisor of a Master's in Biotechnology student, adjunct supervisor of a PhD student

Semester 2

- Lecturing for MMED3936 Human Pharmacology and Therapeutics and MMED3940 Ocular Pharmacology and Therapeutics
- Facilitating for MDSC2000 Skills for Medical Scientists 2
- Marking for MDSC2000 Skills for Medical Scientists 2
- Primary supervisor of a Master's in Biotechnology student, adjunct supervisor of a PhD student
- Examiner for a CMPH Honours student

2020

Semester 1

- Assisting with running the CMPH Honours Journal Club
- Adjunct supervisor of a PhD student

Semester 2

- Lecturing for MMED3936 Human Pharmacology and Therapeutics and MMED3940 Ocular Pharmacology and Therapeutics
- Facilitating for MDSC2000 Skills for Medical Scientists 2
- Marking for MDSC2000 Skills for Medical Scientists 2
- Adjunct supervisor of a PhD student

2019

Semester 1:

- Lecturing for MMED2931_MMED8931 Human Physiology and for MMED1005 How Your Body Works: Human Physiology and Structure
- Marking for MMED2931_MMED8931 Human Physiology

Semester 2

- Lecturing for MMED3936 Human Pharmacology and Therapeutics and MMED3940 Ocular Pharmacology and Therapeutics
- Facilitating for MDSC2000 Skills for Medical Scientists 2
- Marking for MDSC2000 Skills for Medical Scientists 2

2018

- Co-supervision of an Honours student
- Lecturing for MMED3936 Human Pharmacology and Therapeutics and MMED3940 Ocular Pharmacology and Therapeutics
- Facilitating for MDSC2000 Skills for Medical Scientists 2
- Marking for MDSC2000 Skills for Medical Scientists 2 and MMED3933 Biochemistry of Human Disease

2017

- Marking for MMED3936 Human Pharmacology and Therapeutics

Educational qualifications

Doctor of Philosophy

Dates	2011-2015
Title of qualification	PhD in Medical Sciences
Name of organisation	University of Aberdeen, Institute of Medical Sciences, College of Medicine and Life Sciences
Responsibilities	<p>My PhD project consisted in the synthesis and chemical characterization of novel DDAH inhibitors and the development of an UPLC-MS DDAH activity assay.</p> <p>I synthesised, purified and chemically characterised (<i>via</i> analytical HPLC-MS, semi-preparative HPLC, NMR, MS, IR, optical rotation and melting point) more than 30 new chemical entities using different medicinal and organic chemistry techniques.</p> <p>I developed and experimentally validated an UPLC-MS method for measuring the metabolite formation profile and activity of DDAH1 and characterised <i>in vitro</i> the inhibitory potential of each new compound on DDAH1.</p> <p>I presented research findings in the form of poster and/or oral presentations at both national and international scientific conferences, congresses and meetings, submitted a PhD thesis and sustained a final exam (<i>viva</i>).</p> <p>I mentored an Honour student in a project involving the synthesis of second generation DDAH1 inhibitors. As a side-project, I also synthesised and fully characterised more than 15 novel guanidino-lactams and evaluated their potential as antimicrobial agents and DDAH1 inhibitors.</p>

Master of Science

Dates	2008-2010
Title of qualification	2 nd level degree (MSc) in Biotechnological Sciences, <i>curriculum</i> : "Pharmaceutical-industry"
Name of organisation	University of Salento, Faculty of Mathematical, Physics and Natural Sciences
Responsibilities	<p>I synthesised purified and chemically characterised (<i>via</i> GC, GC-MS, NMR, IR, and melting point) 15 esters and heterocyclic compounds using a palladium-catalysed synthetic strategy.</p> <p>I generated data and contributed to writing and editing a manuscript for peer-reviewed publication, wrote a final thesis and presented the research findings in the form of a poster and an oral presentation.</p> <p>I unofficially supported the group in the organization of the XXIV National Congress of the Italian Chemistry Society.</p>

Bachelor degree and honours project

Dates	2005-2008
Title of qualification	1 st level degree (BBiotech) in Biotechnology
Name of organisation	University of Salento, Faculty of Mathematical, Physics and Natural Sciences
Responsibilities	I extracted organic residues from archaeological pottery fragments and conducted chemical analyses on the whole pottery fragments and their organic components using GC-MS and FT-IR.

I wrote a final thesis and presented the research findings in the form of an oral presentation.

Training

- 03/2024 - Biosafety Training: (Organised by Flinders University)
- 03/2024 – HDR supervisor training (Organised by Flinders University)
- 05/2023 – 11/2023 – GROW – Skills for Clinical Research Associates Program (run by ARCS Australia)
- 19/10/2022 - HDCT Clinical Trial Intensive Workshop (run by Flinders University Health Data and Clinical Trials group)
- 17/10/2022 - BioCatalyst Drug Target Workshop: What makes a good drug target? (run by Brandon BioCatalyst)
- 22/03/2021 - Medicines Industry Gateway Successful Project Positioning Workshop (workshop for selected early-career researchers in drug discovery and development run by Bright Arena)
- 18/01/2021 – ICH Good Clinical Practice E6 (R2) (run by The Global Health Network)
- 03/2020 – ongoing - 2020 College of Medicine and Public Health Mentoring Programme (Organised by the Flinders university, College of Medicine and Public Health)
- 02/2020 - SAHLN induction trainings
- 04/04/2019 - Biosafety Training: (Organised by Dr Jess Hall Ethics Officer)
- 21/02/2019 – 31/12/2019 - 2019 Researcher Mentoring Scheme (Organised by Flinders University)
- 20/02/2019 - Venepuncture and IV Cannulation (Organised by HCA Healthcare Australia)
- 5-8/11/2018 - LCMS QQQ Techniques and Operation (Organised by Agilent)
- 26/07/2018 - Providing Usable Feedback (Organised by Flinders University)
- 04-07/2018 - Higher Degree by Research (HDR) Supervisor PD Program (Organised by Flinders University)
- 06/2018 - Managing Work Integrated Learning Program (Organised by Flinders University)
- 04-06/2018 - Flinders Foundations of University Teaching (FFOUT) Program (Organised by Flinders University)
- 26/10/2017 - TechInSA and Early Career Researchers Meeting and ECR Biomedical Challenges Workshop (conducted by SA Science Council)
- 01/09/2017 - Heart Foundation: Privacy in Research – what do you need to know? (Organised by Praxis Australia)
- 14/07/2017 - Heart Foundation: Research Integrity and Clinical Trials (Organised by Praxis Australia)

Full list of seminars and induction courses available on request

Grants and funding

Role in the grant	Chief Investigator
Project Lead	Professor Arduino A. Mangoni
Grant Title	“Targeting vasculogenic mimicry in triple-negative breast cancer.”
Grant Institution	Tour de Cure Ltd
Category	Senior Research Grant
Grant start year	2023
Grant end year	2024
Amount awarded	AUD \$185,360.00
Role in the grant	Principal Investigator
Project Lead	Dr Sara Tommasi
Grant Title	“Dimethylarginine dimethylaminohydrolase 2 (DDAH2): a novel approach to targeting neovascularisation in breast cancer.”
Grant Institution	Flinders Foundation and Flinders University
Category	2022 Flinders Foundation Health Seed Grant
Grant start year	2023
Grant end year	2024
Amount awarded	AUD \$24,990.00
Role in the grant	Principal Investigator
Project Lead	Dr Sara Tommasi
Grant Title	“Discovery of novel inhibitors of dimethylarginine dimethylaminohydrolase 1 (DDAH1) for the treatment of affective disorders”
Grant Institution	Southern Adelaide Local Health Network (SALHN)
Category	SALHN Research Enquiry Grant Round
Grant start year	2022
Grant end year	2023
Amount awarded	AUD \$14,470.00
Role in the grant	Associate Investigator
Project Lead	Dr Benjamin C. Lewis
Grant Title	“Dimethylarginine dimethylaminohydrolase 1 (DDAH-1) inhibitors: developing a new class of anti-angiogenic drugs for the treatment of cancer”
Grant Institution	Faculty of Medicine, Nursing and Health Sciences
Category	Small Grants
Grant start year	2016
Grant end year	2018
Amount awarded	AUD \$19,000.00

Awards, memberships, posters and oral presentations

Awards

- 2022 – Award for the 1st place on the engagement leader board of SAHLN Research Week
- 2021 – shortlisted and selected by Bright Arena to attend the competitive workshop Medicines Industry Gateway Successful Project Positioning Workshop
- 2019 – Artificial Intelligence Molecular Screen (AIMS) Award from Atomwise consisting in 72 molecules predicted to bind to a specific target protein and unlimited and free of charge support from Atomwise's medicinal chemists and computational biologists
- 2019 – travel grant (1.885 EUR) to attend workshop on the Marie Skłodowska-Curie Individual Fellowships Programme at TU Dresden
- 2017 – selected by Flinders University to attend the TechInSA and Early Career Researchers Meeting
- 2016 - ESC Congress Educational Grant (1000 EUR) to attend the ESC Congress
- 2015 - Professional Staff Development Fund (506.82 AUD) to attend APSA-ASCEPT 2015 Joint Scientific Meeting
- 2015 - APG travel grant (500 AUD) to attend APSA-ASCEPT 2015 Joint Scientific Meeting
- 2015 - FMNHS Executive Dean's Work, Health & Safety Award (1500 AUD) in recognition of significant contributions towards WHS in their workplace.
- 2014 - Best 3rd Year Presentation in Cardiovascular, Imaging and Drug Discovery session prize (100 GBP) awarded at the IMS and RINH Summer Symposium – University of Aberdeen
- 2014 - Best poster prize awarded at the 7th International Symposium on Asymmetric Dimethylarginine (100 USD)
- 2011 - University of Aberdeen, School of Medicine and Dentistry PhD studentship (3.5 years)
- 2010 - Master's degree awarded with the highest grade: 110/110 *cum laude*
- 2008 - Undergraduate degree awarded with the highest grade: 110/110 *cum laude*

Memberships and committees

- 2022-current - member of the College of Medicine and public Health Early- and Mid-Career Academics Community of Practice
- 2020-current – Board member of the 2020 BLiSS*Adelaide EMCR organising committee
- 2020-current - Board member of the 2020 College of Medicine and public Health Emerging Leaders Showcase organising committee
- 2020- 2021 – member of the committee co-ordinating the 2020 Flinders Health and Medical Research Institute (FHMRI) seminar series
- 2019-current - Member of the Metabolomics Society
- 2018-current - Member of the Australian Society for Medical Research
- 2016-current - Member of the European Society of Cardiology
- 2016-current - Member of the Working Group on Cardiovascular Pharmacotherapy
- 2015-current - Member of the Australasian Society of Clinical & Experimental Pharmacologists and Toxicologists and abstract reviewer for the 2020 ASCEPT-APSA scientific meeting
- 2015 - Minutes Secretary of the Clinical Pharmacology Mass Spec Users Management Committee (ongoing)
- 2011 - Member of the Italian Chemistry Society

Chairing

2022

- Chairing for the 2022 SALHN Research Week Discovery Science Free paper presentations
- Chairing for the 2022 College of Medicine and public Health Emerging Leaders Showcase

2021

- Chairing for the 2021 Flinders Health and Medical Research Institute (FHMRI) seminar series
- Chairing for the 2021 BLiSS*Adelaide Networking for Collaboration series of events
- Chairing for the 2021 College of Medicine and public Health Emerging Leaders Showcase

2020

- Chairing for the 2020 Flinders Health and Medical Research Institute (FHMRI) seminar series
- Chairing for the 2020 BLiSS*Adelaide virtual conference

Oral and Posters presentations

Oral presentations

1. Oral Presentation at the SALHN Research Week, Flinders Medical Centre, SALHN, Adelaide, South Australia, 18 September 2024
Methotrexate, blood pressure and arterial function in rheumatoid arthritis: a randomized controlled investigator-initialled trial
2. Oral Presentation at the Emerging Leaders Showcase at Alere Function Centre at Bedford Park campus, Flinders University, Adelaide, South Australia, 21-22 November 2019
Molecular insights into the cardiovascular protection by methotrexate
3. Oral Presentation at the BLiSS*Adelaide EMCR Collaborative Symposium at Sanctuary Adelaide Zoo, Adelaide, South Australia, 4 October 2019
Abstract title: *Repositioning methotrexate for cardiovascular management: molecular insights into the cardio-protective mechanisms of this drug.*
Presentation title: *A new life and purpose for an old drug.*
Understanding how an arthritis treatment could protect our cardiovascular system.
4. Invited guest presentation at the Genetics and Molecular Pathology department at the Women's and Children's Hospital, Adelaide, South Australia, 19 August 2019
Understanding the role and therapeutical implications of the Dimethylarginine Dimethylaminohydrolase (DDAH) family of enzymes
5. Invited guest lecture at the Faculty of Medicine Carl Gustav Carus, Technische Universität Dresden (TUD), Dresden, Germany, 11 June 2019
Dimethylarginine Dimethylaminohydrolase-1 (DDAH1) inhibition as a novel therapeutic target in cancer and inflammation
6. Invited guest seminar at the CMPH seminar series 2019, Flinders University, Adelaide, South Australia, 20 March 2019
Methotrexate and cardiovascular health. Can this anti-rheumatic drug be repurposed for cardiovascular management?
7. Oral presentation at the ASCEPT 2018 Annual Scientific Meeting, Adelaide Convention Centre, South Australia, 27-30 November 2018
Dimethylarginine Dimethylaminohydrolase-1 (DDAH1) inhibition as a novel therapeutic strategy in cancer types associated with excessive nitric oxide synthesis.
8. Oral presentation at the APG Symposium- University of Adelaide, South Australia, 27 November 2015
Design and synthesis of arginine analogues incorporating carboxylate bioisosteres as DDAH-1 inhibitors.
9. Oral presentation at the IMS and RINH Summer Symposium- University of Aberdeen, Scotland, 19-20 June 2014
Arginine analogues incorporating carboxylate bioisosteres as novel DDAH inhibitors.

Posters

1. Poster presented at the SALHN Research Week, Flinders Medical Centre, SALHN, Adelaide, South Australia, 18 September 2024
Sara Tommasi, Isabella Romano, Chiara Zanato, Matteo Zanda, Arduino A. Mangoni.
Discovery of novel inhibitors of dimethylarginine dimethylaminohydrolase-1 (DDAH1) for the treatment of affective disorders.
2. Poster presented at the SALHN Research Week, Flinders Medical Centre, SALHN, Adelaide, South Australia, 21 September 2021
Sara Tommasi, Julie-Ann Hulin, Roberta Frapolli, Tommaso Ceruti, Negara Tajbakhsh, Massimo Zucchetti, Arduino A. Mangoni.
Dimethylarginine dimethylaminohydrolase-1 (DDAH1) inhibition as a novel treatment strategy for triple negative breast cancer.
3. Poster presented at the Drug Discovery & Development SA Symposium, HB8-18, UniSA Cancer Research Institute, City West Campus, Adelaide, South Australia, 17 February 2020
Sara Tommasi, Julie-Ann Hulin, Pramod C. Nair, Negara Tajbakhsh, Arduino A. Mangoni.
Dimethylarginine dimethylaminohydrolase 1 (DDAH-1) inhibition as a novel therapeutic strategy in breast cancer treatment
4. Poster presented at the Inaugural Division Of Medicine, Cardiac & Critical Care Symposium- Flinders University and Flinders Medical Centre, Adelaide, South Australia, 4 September 2019
Julie-ann Hulin, **Sara Tommasi**, Negara Tajbakhsh, Arduino A. Mangoni
Dimethylarginine dimethylaminohydrolase-1(DDAH1) inhibition as a novel therapeutic strategy in triple negative breast cancer
5. Poster presented at the workshop on the Marie Skłodowska-Curie Individual Fellowships Programme, Technische Universität Dresden (TUD), Dresden, Germany, 5 June 2019
Sara Tommasi, Julie-Ann Hulin, Natalia Jarzebska, Roman Rodionov, Arduino A. Mangoni
Targeting dimethylarginine dimethylaminohydrolase 1 (DDAH1) as a novel treatment strategy in triple negative breast cancer.
6. Poster presented at the ESC Congress-Rome, 27-31 August 2016
Sara Tommasi, David J. Elliot, Mark McEvoy, Patrick McElduff, Andrew Rowland, Julie-Ann Hulin, Benjamin C. Lewis, Arduino A. Mangoni.
Dimethylarginine dimethylaminohydrolase-1 (DDAH-1) inhibition by proton pump inhibitors: in vitro and in vivo significance
7. Poster presented at the APSA-ASCEPT 2015 Joint Scientific Meeting- Hobart, Tasmania, from November 28th to December 2nd, 2015
Sara Tommasi, Chiara Zanato, Benjamin C. Lewis, Pramod C. Nair, Sergio Dall'Angelo, Matteo Zanda, Arduino A. Mangoni.
Design and synthesis of arginine analogues incorporating carboxylate bioisosteres as DDAH-1 inhibitors.
8. Poster presented at the 7th International Symposium on Asymmetric Dimethylarginine- St Petersburg, Russia, June 30 to July 2, 2014
Sara Tommasi*, Chiara Zanato, Benjamin C. Lewis, Andrew Rowland, Pramod C. Nair, Matteo Zanda and Arduino A. Mangoni
Arginine analogues incorporating carboxylate bioisosteres as novel DDAH inhibitors (Poster prize)
9. Poster presented at the 41st Scottish Organic Division RSC Regional Meeting - University of St-Andrews 12th December 2012
Sara Tommasi, Chiara Zanato, Arduino Mangoni, Matteo Zanda.
An efficient route for the synthesis of N-monosubstituted guanidino lactams.

10. Poster presented at the XXIV Congresso Nazionale della Società Chimica Italiana (National Congress of the Italian Chemistry Society), Lecce 11-16 September 2011

ORG-PO-110: **Sara Tommasi**, Serena Perrone, Francesca Rosato, Antonio Salomone, Luigino Troisi

One-Pot Ester Synthesis from Allyl or Benzyl Halides and Alcohols by Pd-Catalyzed Carbonylation

Publication list

Citations are extracted using **Google Scholar**

1. *Arginine metabolomics in mood disorders*
Angelo Zinellu, **Sara Tommasi**, Stefania Sedda, Arduino A Mangoni
HELIYON, 2024, 10, 6, e27292
DOI: <https://doi.org/10.1016/j.heliyon.2024.e27292>
0 citations, IF 4.0, SJR 0.62, Q1 in Multidisciplinary
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Referees

Professor Arduino A Mangoni, PhD, FRCP (Lond, Glas, Edin), FRACP (supervisor during PhD and the current position)

*Head, Department of Clinical Pharmacology
Clinical Pharmacologist and General Physician
Southern Area Local Health Network
Professor at Flinders University
College of Medicine and Public Health
Bedford Park, SA 5042
Australia
Phone: +61 8 8204 7495
Fax: +61 8 8204 5114
Email: arduino.mangoni@flinders.edu.au
Arduino.Mangoni@sa.gov.au*

Professor Michael Shanahan, BMBS, MPH, PhD, MHPE, FAFOEM, FRACP (supervisor for the investigator-initiated clinical trial)

*Rheumatologist & Occupational Physician
Head of Rheumatology
Southern Area Local Health Network
School of Medicine, Flinders University
Flinders Medical Centre
GPO Box 2100, Adelaide 5001, South Australia
Phone: +61 8 82751819
Fax: +61 8204 4150
Email: michael.shanahan@flinders.edu.au
Michael.Shanahan@sa.gov.au*

Dr Eliza Pontifex, MD (IRL), MB BS, FRACP (consultant rheumatologist and lead investigator of the project looking at pain in psoriatic arthritis patients)

*Consultant Rheumatologist
Southern Area Local Health Network
Academic at Flinders University
School of Medicine
Flinders Medical Centre
GPO Box 2100, Adelaide 5001, South Australia
Phone: +61 8204 6429
Fax: +61 8204 4150
Email: Eliza.Pontifex@sa.gov.au*

Dr Voula Gaganis, PhD, BSc (teaching specialist and topic coordinator for MMED3936, MMED3940, MMED2931_MMED8931)

*Teaching Specialist, Lecturer in Physiology
Flinders University
College of Medicine and Public Health
Health Sciences Building (6E:137)
GPO Box 2100, Adelaide 5001, South Australia
Office phone: +61 8204 5304
Email: voula.gaganis@flinders.edu.au*