

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Name

Address

Telephone

LinkedIn

E-mail

Nationality

Date of birth

## WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

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- Investigation on the impact of radiotherapy on microbiome in breast cancer
- Involvement on other projects within the lab (testing of pharmaceutical compounds for their anti-malaria effect on *Plasmodium falciparum* in vitro culture)

01.01.2022 – 31.12.2024

Lab of Prof. Roberta Spaccapelo (Ph.D.), Department of Medicine and Surgery, Università degli Studi di Perugia, Perugia, Italy

Academic research

Postdoctoral researcher (RTD-A – L. 240/10)

- Investigation on the impact of radiotherapy on microbiome in breast cancer
- Involvement on other projects within the lab (testing of pharmaceutical compounds for their anti-malaria effect on *Plasmodium falciparum* in vitro culture)
- Teaching classes as a co-docent on the microbiome within the nursing degree programme (Corso di Studio in Infermieristica) and the M.Sc. Medical, Veterinary and Forensic Biotechnological Sciences in English

13.08.2019 – 31.12.2021

Lab of Prof. Volkan Özenci (M.D., Ph.D.), Department of Laboratory Medicine (LABMED), Division of Clinical Microbiology, Karolinska Institutet, Huddinge, Stockholm, Sweden

Medical academic research

Postdoctoral researcher

- Evaluation of rapid lateral flow assays and novel rapid antimicrobial susceptibility methods for clinical microbiology
- Design and execution of experiments testing novel devices to improve clinical bacteria culture and patient blood sampling
- Selection and detection of microbial isolates for research studies

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

- Group strategy planning, and project planning
- Supervision of students for internship and thesis project

19.06.2019 – 19.05.2020

Biopromic AB, Stockholm, Sweden

Limited company, development of point-of-care infection diagnostics

Project scientist

- Testing of company's product in conjunction with rapid lateral flow assays
- Assessment of company's requirements for QMS, and quality standards and certifications

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

07.09.2015 – 31.12.2018

Lab of Dr. Florent Ginhoux (Ph.D.), Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore

Academic research

Postdoctoral researcher

- Investigation of homeostasis of tissue dendritic cells at steady state in conditional KO mice models using flow cytometry
- Supervision of students for internship and final year project; research technician supervision

## OTHER RESEARCH EXPERIENCES

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

04.06.2018 – 08.06.2018

Lab of Dr Ichiro Taniuchi (M.D., Ph.D.), Riken Center for Integrative Medical Sciences, Yokohama, Japan

Academic research

Visiting scientist for overseas research collaboration, conference attendance

- Assisted with investigation of lung dendritic cell homeostasis in their mouse model as part of collaboration

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

01.08.2014 – 31.07.2015

Lab of Prof. Luigina Romani (M.D., Ph.D.), Department of Experimental Medicine, University of Perugia, Perugia, Italy

Academic research

Doctor of Philosophy candidate – 1 year overseas research attachment

- Continued investigation of doctorate project using electron microscopy and contributed to other projects in the laboratory
- Supervision of 2-month final year thesis project student from Sweden

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

01.08.2011 – 31.03.2016

Lab of Prof. Paola Castagnoli (Ph.D.), Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore

Academic research

Doctor of Philosophy candidate

Thesis title: "Modulation of the Immune System in Response to Fungi through NFAT Pathway"

- Investigated the calcineurin/NFAT pathway and LRRK2 in dendritic cells in the context of fungal stimulation
- Teaching of laboratory techniques to undergraduate internship students

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held

24.05.2010 – 10.12.2010

Lab of Dr Laurent Réna (Ph.D.), Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore; Lab of Prof. Christiane Ruedl, School of Biological Science (SBS), Nanyang Technological University (NTU), Singapore

Academic research

Bachelor of Science – Final Year Project thesis student

• Main activities and responsibilities

• Dates (from – to)

• Name and address of employer

• Type of business or sector

• Occupation or position held

• Main activities and responsibilities

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• Name and address of employer

• Type of business or sector

• Occupation or position held

• Main activities and responsibilities

**EDUCATION AND QUALIFICATIONS**

Abilitazione Scientifica Nazionale

• Dates (from – to)

• Title of qualification awarded

• Name and type of organisation providing education and training

• Principal subjects/occupational skills covered

Thesis title: “Analysis of GM-CSF Receptor Deficient Mice in a Malaria Infection Model”

- Trained in techniques in malaria parasitology
- Investigated impact of deficiency of GM-CSF receptor in a rodent model of malaria

04.05.2009 – 09.07.2009

Lab of Prof. Peter Dröge (Ph.D.), School of Biological Science (SBS), Nanyang Technological University (NTU), Singapore

Academic research

Bachelor of Science – Internship student (BS901 – Research Exercise)

- Cloned HMGA2 gene into bacteria plasmid for protein expression

30.03.2006 – 24.01.2007

Supervisor: Mr Benjamin Cheng Woi Yang, Lecturer, Singapore Polytechnic, Singapore Education (Tertiary)

Diploma – Final Year Project student

Thesis title: “Developing a Sandwich ELISA Kit for Detection of Human Endothelial Lipase”

Featured in Spinovex 2007, an exhibition of top final year projects for showcase to industry.

- Involved in cloning and producing human endothelial lipase protein in yeast (*Komagataella phaffii*, formally *Pichia pastoris*) to be used in development of an ELISA kit

06.03.2006 – 13.04.2006

Lab of Dr Cao Xin Min (Ph.D.), Institute of Molecular and Cell Biology (IMCB), Agency for Science, Technology and Research (A\*STAR), Singapore

Academic research

Diploma – Internship student

- Assisted lab biologists in day-to-day experiments investigation regulation and function of Stat proteins in cell signaling

03.10.2005 – 29.10.2005

DNA Sequencing Facility, Institute of Molecular and Cell Biology (IMCB), Agency for Science, Technology and Research (A\*STAR), Singapore

Academic Research

Diploma – Internship student

- Assisted lab biologists in day-to-day experiments required to sequence the genome of the elephant shark (*Callorhynchus milii*)

Obtained the National Scientific Qualification for associate professor level in the Italian higher education system (professore universitario di seconda fascia) for the sector MEDS-06/A3 (formally MED/07) – Microbiology and Clinical Microbiology (Microbiologia e Microbiologia Clinica). Valid from 17.12.2023 to 17.12.2034

01.08.2011 – 31.03.2016

Doctor of Philosophy (Dottorato di ricerca) (PhD)

NUS Graduate School - Integrative Sciences and Engineering Programme (ISEP) (formally known as NGS)

National University of Singapore (NUS), Singapore

Thesis title: “Modulation of the Immune System in Response to Fungi through NFAT Pathway”

- Life science modules covering various topics such as Immunology, investigation of human disease, stem cells, viral vectors for gene expression, and handling of systems biology data
- Research ethics and integrity
- Cross-disciplinary modules such as exploring the interface of science and engineering, and basic principles of epidemiology

<ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Title of qualification awarded</li> </ul> <ul style="list-style-type: none"> <li>• Name and type of organisation providing education and training</li> <li>• Principal subjects/occupational skills covered</li> </ul>	<p>06.08.2007 – 10.12.2010 (conferred March 2011)</p> <p>Bachelor of Science (Honors) in Biological Science (Accelerated Bachelors Program), cGPA: 4.38/5.00 (Second Class Honors, upper division) (Laurea in Scienze Biologiche)</p> <p>School of Biological Science (SBS) Nanyang Technological University (NTU), Singapore</p> <ul style="list-style-type: none"> <li>• Life science theory and practical modules covering Biochemistry, Genetics, Cell Biology, Physiology, Microbiology, Virology, Biostatistics, Bioinformatics, Immunology, Genomics and Proteomics, Neurobiology, Developmental Biology, Cancer Biology, Muscle Biology, Structural Biology, and Molecular Biology</li> <li>• Academic skills modules covering academic writing and presentation</li> <li>• Cross-disciplinary modules in psychology, humanities, business, and music</li> </ul>
<ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Title of qualification awarded</li> </ul> <ul style="list-style-type: none"> <li>• Name and type of organisation providing education and training</li> <li>• Principal subjects/occupational skills covered</li> </ul>	<p>05.04.2004 – 05.03.2007</p> <p>Diploma in Biomedical Science (Medical Technology Option), cGPA 3.401/4 (Diploma di Istituto Professionale di Scienze Biomediche)</p> <p>School of Chemical &amp; Life Sciences (CLS) Singapore Polytechnic, Singapore</p> <ul style="list-style-type: none"> <li>• Biomedical science theory and practical modules covering Biochemistry, Organic Chemistry, Anatomy and Physiology, Biophysics, Microbiology, Molecular Biology, Cell Biology, Genetics, Clinical Chemistry, Immunology, Pathology, Haematology, and Biostatistics</li> <li>• Academic skills modules covering professional writing and presentation</li> <li>• Cross-disciplinary modules in entrepreneurship, drama appreciation, finance, law, and psychology</li> </ul>

## CONTINUING PROFESSIONAL DEVELOPMENT

<p>Introduction to RNA-seq</p>	<p>RNA-seq training course covering experimental design and bioinformatics analysis. Gained hands-on experience with NGS technologies (Illumina, PacBio, Oxford Nanopore), RNA-seq workflow implementation, differential expression analysis, and functional annotation using command-line tools (Linux) and R.</p> <p>Provider: Sequentia Biotech. 14.05.2025 – 17.05.2025</p>
<p>Metagenomics applied to surveillance of pathogens and antimicrobial resistance</p>	<p>Course on workflow of a metagenomics study from study design to the epidemiological analysis of the results using QIIME2.</p> <p>Provider: Technical University of Denmark <i>via</i> Coursera. Completed 26.01.2023</p>

## PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career  
but not necessarily covered by formal  
certificates and diplomas.*

### MOTHER TONGUE

### OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

### SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in  
multicultural environments, in positions  
where communication is important and  
situations where teamwork is essential  
(for example culture and sports), etc.*

### ORGANISATIONAL SKILLS AND COMPETENCES

*Coordination and administration of  
people, projects and budgets; at work, in  
voluntary work (for example culture and  
sports) and at home, etc.*

Page 5 - Curriculum vitae of  
WONG, Yoke Wei Alicia

### ENGLISH

#### CHINESE (MANDARIN)

GOOD (B2)  
GOOD (B2)  
GOOD (B2)

#### ITALIAN

GOOD (B2)  
GOOD (B1)  
GOOD (B2)

#### SWEDISH

GOOD (B1)  
BASIC (A2)  
BASIC (A2)

### TEAM SPIRIT

- Often worked in groups both in professional and personal life which involved working together, taking initiative in anticipating and solving problems, and conflict resolution
- Team bonding and respect for each other is a priority, took the initiative to plan birthday celebrations and organize group bonding activities
- Worked in multicultural laboratory groups ranging from 4-23 people since 2005, and also was involved in collaborations with external groups, clinicians, and companies
- Played in the symphonic band with approximately 100 other musicians
- Sang in various choirs consisting of 3-50 other choristers 2000-2019
- Currently playing in local percussion group (Anarchia Ritmica) with 15-20 other percussionists

### SCIENTIFIC LEADERSHIP

- Current responsibilities as a researcher with Prof. Roberta Spaccapelo include grant writing, and aiding with the professional development of doctoral students in the group
- Responsibilities as a postdoctoral researcher with Prof. Volkan Özenci include group strategy planning and project planning, which included leading and keeping track of projects of other colleagues and students

### GOOD COMMUNICATION SKILLS

- Able to present scientific work to different demographics of audience ranging from fellow scientists in conferences, to children at public outreach events
- Graphic and design skills are an advantage in communicating scientific work in a visually understandable way
- Often worked in multicultural environments, which required adaptation of communication skills
- Experience working in insurance company as a customer service officer taking insurance policy enquiries over the phone (2007)

### ABILITY TO ADAPT TO MULTICULTURAL ENVIRONMENTS

- Worked in various professional settings with international colleagues and grew up in a multicultural country which requires one to be adaptable and sensitive to different cultures
- Experience living and working in different countries outside of home country (Italy 2014-2015, 2022-present, and Sweden 2019-2022) which requires adaptation to local culture and communication with languages other than English
- Has attended conferences in Singapore, Italy, China, Japan, United States of America and Sweden

### PROJECT PLANNING

- Ph.D. and postdoc research involved coordination of multiple consecutive projects either internally within the laboratory, or in collaboration with external groups and companies
- Able to independently design and execute experiments to achieve project objectives
- Able to anticipate potential problems and proactively take steps to solve them in order for the project to continue till completion

For more information go to  
[www.cedefop.eu.int/transparency/  
europa.eu.int/comm/education/index\\_en.html](http://www.cedefop.eu.int/transparency/europa.eu.int/comm/education/index_en.html)  
[eurescv-search.com/](http://eurescv-search.com/)

TECHNICAL SKILLS  
AND COMPETENCES  
*With computers, specific kinds of  
equipment, machinery, etc.*

EVENT PLANNING

- Enjoys detailed planning of overseas trips for both business and leisure purposes
- Organising committee member for Singapore Polytechnic String Ensemble concert, "Classical Renaissance 2006"

EXPERIMENT RECORDING

- Meticulous and precise in keeping both digital and physical experimental records of academic and clinical research experiments in a way that all experiments and reagents used are traceable

COORDINATION AND ADMINISTRATION OF PEOPLE

- Mentored students in their internship or thesis projects, and guided them to completion of their thesis requirement in the course of postdoctoral research and Ph.D. studies
- Stage Manager for the drama theatre performance "Showtime 2005" which involved managing rehearsal schedules, team motivation, performance logistics and supervision of rehearsals

CLINICAL MICROBIOLOGY

- Experienced in clinical microbiology and evaluation of rapid methods for the diagnosis of infectious diseases
- Familiar with clinical microbiology diagnosis processes, handling of patient samples, and methods for rapid identification of causative pathogens in severe infections such as sepsis, subculturing and storage of clinical bacterial isolates
- Planning and execution of validation experiments for lateral flow assays (directly worked with *Streptococcus pneumoniae* and *Legionella* urinary antigen assays from different vendors), automated rapid antimicrobial susceptibility testing of bacterial infections in blood cultures (dRAST™, QuantaMatrix), and the testing of novel methods for rapid antimicrobial susceptibility testing in fungi

IN VIVO EXPERIMENTS

- Skills in animal handling and experimentation - various injection and inoculation routes, imaging of live mice under anaesthesia, adult mouse dissection for isolation and processing of numerous tissues (peritoneal lavage, blood, bone marrow, spleen, lung, gut, lymph nodes, ear skin, and eyes), newborn mouse dissection for tissue isolation and processing (blood, spleen, brain, skin), timed mating for the generation of specific mouse fetal stages for various downstream applications; RCULAC certificate obtained in November 2010, Singapore
- Investigation of the *in vivo* immune response - Worked with murine pulmonary infection models for modelling Aspergillosis, mouse model for cerebral malaria with *Plasmodium berghei* ANKA, and various other murine models (knock-out and conditional knock-out mouse models, as well as inducible-labelling or -depletion models) used for investigating immune cell biology and trace immune progenitor origins
- Analysis methods in immunology and molecular biology including RNA/DNA/protein purification from both prokaryotic and eukaryotic cells as well as mammalian tissue samples, gene expression (PCR, qPCR), protein expression (Western blotting, flow cytometry), cell surface and intracellular marker expression (flow cytometry, fluorescence microscopy, confocal microscopy), bacterial gene cloning, cytokine production (sandwich ELISA, intracellular staining flow cytometry), and optical microscopy

IN VITRO EXPERIMENTS

- Skills in cellular biology and molecular analysis - Aseptic cell culture (bacteria, fungi, *Plasmodium falciparum*, and mammalian cell culture) involving incubation with various compounds
- Investigation of the *in vitro* immune response - Investigation of immune cellular pathways in response to PAMP stimulation via PRR ligands
- Analysis methods in immunology and molecular biology including RNA/DNA/protein purification from both prokaryotic and eukaryotic cells as well as mammalian tissue samples, gene expression (PCR, qPCR), protein expression (Western blotting, flow cytometry), cell surface and intracellular marker expression (flow cytometry, fluorescence microscopy, confocal microscopy), bacterial gene cloning, cytokine production (sandwich ELISA, intracellular staining flow cytometry), and optical microscopy

ARTISTIC SKILLS  
AND COMPETENCES  
*Music, writing, design, etc.*

COMPUTER SKILLS AND DATA ANALYSIS

- Proficient in both Windows and MacOS, as well as Microsoft Office and iWork
- Proficient in software for data analysis, including software for analysing flow cytometry data (FlowJo®), qPCR data (MxPro QPCR software), Western blot densitometry analysis (ImageJ, Bio-Rad Image Lab™), and metagenomics (QIIME2 command-line interface)
- Familiar with software for graphing and statistical analysis of data (Graphpad Prism)

GRAPHICS, DESIGN AND VISUAL ART

- Inkscape – Graphical software for data and manuscript figure layouts and vector art generation (Portfolio: <https://aliciawong.pb.online/>). Self-taught since 2011
- Procreate – iPad software for digital drawing and painting. Self-taught since 2020
- iMovie – Video editing software. Self-taught since 2012
- Other art mediums (pen and ink, color pencils, markers, watercolors, gouache, and acrylic) and art forms (drawing, painting, sculpture, scrapbooking techniques and zine production)

Music

- ABRSM Grade 8 – Music theory (2006), Piano (2005)
- Alto and bass clarinet – Singapore Polytechnic Symphonic Band (Singapore Polytechnic, Singapore) 2004-2006, Nanyang Technological Symphonic Band (Nanyang Technological University, Singapore) 2007-2010
- Choir – St Catherine’s Choir (St Vincent De Paul Church, Singapore) 2000-2019, Corale Laurenzia “Raffaele Casimiri” (Cattedrale di San Lorenzo, Perugia, Italy) 2014-2015
- Percussion – TSB Tetraktis Street Band (Perugia, Italy) 2014-2015; Anarchia Ritmica (Perugia, Italy) 2022-present
- Digital music recording – GarageBand software, self-taught since 2013
- Various other instruments

## ADDITIONAL INFORMATION

### PUBLICATION METRICS (AS OF JANUARY 2026)

22 publications, one pre-print

1954 citations

*h*-index: 13 (Scopus)

<https://orcid.org/0000-0003-1169-7766>

Full details in annex

### TEACHING AND MENTORING EXPERIENCE

Currently co-docent in the Department of Medicine and Surgery, UniPG

2 Masters programme internship/Final Year Thesis students

2 Research technicians

7 Bachelor internship/Final Year Thesis students

1 Diploma internship student

40 hrs undergraduate student laboratory teaching

Full details in annex

### SCIENCE COMMUNICATION AND COMMUNITY OUTREACH EXPERIENCE

See annex

### CONFERENCE PARTICIPATION

See annex

### PRIZES, SCHOLARSHIPS AND GRANTS:

2020 – ECCMID Travel Grant 2020 (applied to ECCMID 2021 due to cancellation of event)

2011 – A\*STAR Graduate Scholarship (Singapore) for Doctorate studies

2007 – All Eights Prize for meritorious performance in diploma project work

### OTHERS

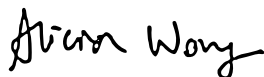
Guest reviewer of *Mediators of Inflammation* (Hindawi)

Guest reviewer of *Cellular Immunology* (Elsevier)

The undersigned WONG, Yoke Wei Alicia declares that all the facts reported in this curriculum correspond to the truth pursuant to and for the purposes of articles 46 and 47 of D.P.R. 445/2000.

The undersigned declares to be aware of the criminal penalties to be incurred in the event of a false declaration or containing data that no longer corresponds to the truth, as required by art. 76 of the D.P.R. 28.12.2000, n. 445.

The undersigned declares to be aware of art. 75 of the D.P.R. 28.12.2000, n. 445, relating to the forfeiture of any benefits resulting from the provision issued, if the Administration, following a check, finds the content of the aforementioned declaration to be untruthful.



19 January 2026, Perugia, Italy

## ANNEXES FOR CURRICULUM VITAE OF WONG, YOKE WEI ALICIA

### PUBLICATIONS

**Wong AYW**, Bicchieraro G, Palumbo I, Ciabattoni A, Aristei C, Spaccapelo R. Microbial Signatures in Breast Cancer: Exploring New Potentials Across Body Niches. *Int J Mol Sci.* 2025 Sep 5;26(17):8654. doi: 10.3390/ijms26178654. PMID: 40943572; PMCID: PMC12429330.

Bicchieraro, G.; Ciunnelli, R.; Graziani, A.; **Wong, A.Y.W.**; Camilloni, B.; Mencacci, A.; Spaccapelo, R. SARS-CoV-2 Molecular Evolution: A Focus on Omicron Variants in Umbria, Italy. *Microorganisms* 2024, 12, 1330. <https://doi.org/10.3390/microorganisms12071330>

Skorup, P., Fransson, A., Gustavsson, J., Sjöholm, J., Rundgren, H., Özenci, V., **Wong, A. Y. W.**, Karlsson, T., Svensén, C., & Günther, M. (2022). Evaluation of an extracorporeal ozone-based bactericide system for the treatment of *Escherichia coli* sepsis. *Intensive care medicine experimental*, 10(1), 14. <https://doi.org/10.1186/s40635-022-00443-w>

**Wong, A. Y. W.**, Johnsson, A. T. A., & Özenci, V. (2022). Performance of dRAST on Prospective Clinical Blood Culture Samples in a Simulated Clinical Setting and on Multidrug-Resistant Bacteria. *Microbiology spectrum*, 10(2), e0210721. <https://doi.org/10.1128/spectrum.02107-21>

Özden Baltekin, Alexander T. A. Johnsson, **Alicia Y. W. Wong**, Kajsa Nilsson, Berivan Mert, Lovisa Söderberg, Erik Wistrand-Yuen, Volkan Özenci (Preprint). Evaluation of an ultra-rapid antibiotic susceptibility testing method on positive blood cultures with *Escherichia coli*. *medRxiv* 2021.12.14.21267046; doi: <https://doi.org/10.1101/2021.12.14.21267046>

Halimi, A., Gabarrini, G., Sobkowiak, M. J., Ateeb, Z., Davanian, H., Gaiser, R. A., Arnelo, U., Valente, R., **Wong, A. Y. W.**, Moro, C. F., Del Chiaro, M., Özenci, V., & Chen, M. S. (2021). Isolation of pancreatic microbiota from cystic precursors of pancreatic cancer with intracellular growth and DNA damaging properties. *Gut microbes*, 13(1), 1983101. <https://doi.org/10.1080/19490976.2021.1983101>

Zimmer C.L., von Seth E., Buggert M., Strauss O., Hertwig L., Nguyen S., **Wong A. Y. W.**, Zotter C., Berglin L., Michaëlsson J., Hansson M. R., Arnelo U., Sparrelid E., Ellis E. C. S., Söderholm J. D., Keita Å. V., Holm K., Özenci V., Hov J. R., Mold J. E., Cornillet M., Ponzetta A., Bergquist A., Björkström N. K. A biliary immune landscape map of primary sclerosing cholangitis reveals a dominant network of neutrophils and tissue-resident T cells. *Sci Transl Med.* 2021 Jun 23;13(599):eabb3107. doi: 10.1126/scitranslmed.abb3107. PMID: 34162753.

**Wong A. Y. W.**, Johnsson A. T. A., Ininbergs K., Athlin S., Özenci V. Comparison of Four *Streptococcus pneumoniae* Urinary Antigen Tests Using Automated Readers. *Microorganisms.* 2021 Apr 13;9(4):827. doi: 10.3390/microorganisms9040827. PMID: 33924729; PMCID: PMC8070120.

Ingrosso G., Saldi S., Marani S., **Wong A. Y. W.**, Bertelli M., Aristei C., Zelante T. Breakdown of Symbiosis in Radiation-Induced Oral Mucositis. *J Fungi (Basel).* 2021 Apr 12;7(4):290. doi: 10.3390/jof7040290. PMID: 33921294; PMCID: PMC8068946.

**Wong A. Y. W.**, Johnsson A. T. A., Iversen A., Athlin S., Özenci V. Evaluation of Four Lateral Flow Assays for the Detection of *Legionella* Urinary Antigen. *Microorganisms.* 2021 Feb 26;9(3):493. doi: 10.3390/microorganisms9030493.

Zelante T., Choera T., Beauvais A., Fallarino F., Paolicelli G., Pieraccini G., Pieroni M., Galosi C., Beato C., De Luca A., Boscaro F., Romoli R., Liu X., Warris A., Verweij P. E., Ballard E., Borghi M., Pariano M., Costantino G., Calvitti M., Vacca C., Oikonomou V., Gargaro M., **Wong A. Y. W.**, Boon L., den Hartog M.,

Spáčil Z., Puccetti P., Latgè J. P., Keller N. P., Romani L. *Aspergillus fumigatus* tryptophan metabolic route differently affects host immunity. *Cell Rep.* 2021 Jan 26;34(4):108673. doi: 10.1016/j.celrep.2020.108673.

Almuhayawi, M.S., **Wong, A.Y.W.**, Kynning, M., Lüthje, P., Ullberg, M. and Özenci, V. (2021), Identification of microorganisms directly from blood culture bottles with polymicrobial growth: comparison of FilmArray and direct MALDI-TOF MS. *APMIS*. <https://doi.org/10.1111/apm.13107>

Johnsson A. J., **Wong, A. Y. W.**, & Özenci V. (2020) The impact of delayed analysis of positive blood cultures on the performance of short-term culture followed by MALDI-TOF MS. *Journal of Microbiological Methods*. doi: 10.1016/j.mimet.2020.106027.

Tenno M.\*, **Wong A. Y. W.\***, Ikegaya M., Miyauchi E., Seo W., See P., Kato T., Taida T., Oishi-Ohno M., Ohno H., Yoshida H., Ginhoux F., & Taniuchi I. (2019) Essential functions of Runx/Cbfb in gut conventional dendritic cells for priming Ror $\gamma$ <sup>+</sup> T cells. *Life Science Alliance*. doi: 10.26508/lsa.201900441. \*contributed equally to this work

Cossarizza A. et. al. [**Wong A.** nr. 424] (2019), Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). *European Journal of Immunology*. 49: 1457-1973. doi: 10.1002/eji.201970107.

O’Koren E. G., Yu C., Klingeborn M., **Wong A. Y. W.**, Prigge C., Mathew R., Kalnitsky J., Arshavsky V. Y., Kay J., Rickman C. B., Ginhoux, F., Merad M., and Saban D. R. (2019) Microglial Functionality Varies by Niche in Retinal Homeostasis and Degeneration. *Immunity*. doi:10.1016/j.immuni.2019.02.007

**Wong A. Y. W.**, Fric J., and Zelante T. (2019) Learning to control tissue damage while fighting *Aspergillus*. *Medical Mycology*, 57 (2), S189-S195. doi:10.1093/mmy/myy053.

Dress R. J., **Wong A. Y. W.**, & Ginhoux F. (2018). Homeostatic control of dendritic cell numbers and differentiation. *Immunology and cell biology*. doi:10.1111/imcb.12028

**Wong, A. Y. W.**, Oikonomou, V., Paolicelli G., De Luca A., Pariano M., Fric J., Tay H. S., Ricciardi-Castagnoli P., & Zelante T. (2018). Leucine-Rich Repeat Kinase 2 Controls the Ca<sup>2+</sup>/Nuclear Factor of Activated T Cells/IL-2 Pathway during *Aspergillus* Non-Canonical Autophagy in Dendritic Cells. *Frontiers in immunology*, 9, 210. doi:10.3389/fimmu.2018.00210

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#### TEACHING AND MENTORING EXPERIENCE

- AY 2022/2023 – present Co-docent in the Molecular Diagnostics in Microbiology course (The Microbiome in Health and Disease, and conducting lab practical sessions, in English) for the M.Sc. Medical, Veterinary and Forensic Biotechnological Sciences programme  
University of Perugia, Perugia, Italy
- AY 2022/2023 – present Co-docent in the Microbiology course (The Microbiome in Health and Disease, in English) for the degree in Nursing programme (Corso di Studio in Infermieristica)  
University of Perugia, Perugia, Italy
- 30.06.2024 – 06.10.2025 Nicol Magnelli, Intern and thesis student, M.Sc. Medical, Veterinary and Forensic Biotechnological Sciences programme  
Lab of Roberta Spaccapelo, Department of Medicine and Surgery, University of Perugia, Perugia, Italy
- 12.04.2024 Co-docent for a lecture on using NGS technology to study microorganisms (Utilizzo della Tecnologia NGS per Lo Studio dei Microrganismi, in Italian) for the Biomedical Laboratory Techniques programme (Corso di Laurea in Tecniche di Laboratorio Biomedico)  
University of Perugia, Perugia, Italy
- 22.02.2021 – 29.05.2021 Andreas Pettersson, BMA Examensarbete (thesis student for the biomedical analyst course), Karolinska Institutet  
Lab of Volkan Özenci, Department of Clinical Microbiology, Karolinska University Hospital, Huddinge, Stockholm, Sweden
- 01.09.2020 – 30.10.2020 Özcan Ateş, intern/medical student (Acıbadem University School of Medicine, Istanbul, Turkey)  
Lab of Volkan Özenci, Department of Clinical Microbiology, Karolinska University Hospital, Huddinge, Stockholm, Sweden
- 08.06.2020 – 08.09.2020 Mohammed Tlass, Summer project medical student (Karolinska Institutet, Stockholm, Sweden)  
Lab of Volkan Özenci, Department of Clinical Microbiology, Karolinska University Hospital, Huddinge, Stockholm, Sweden
- 04.09.2018 – 31.12.2018 Wei Da Ngan, Research Officer  
Lab of Dr Florent Ginhoux, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore
- 01.07.2018 – 4.09.2018 Wan Ting Kong, Research Officer  
Lab of Dr Florent Ginhoux, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore

- 24.07.2017 – 06.06.2018 Peiyi Ng, 1-year A\*STAR Scholar Research Attachment, A\*STAR Graduate Academy  
Lab of Dr Florent Ginhoux, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore
- 31.07.2017 – 12.01.2018 Peter Paa, Internship student (SIPGA scholarship), B. Sc. (Honors) in Genetics, University of Manitoba, Canada  
Lab of Dr Florent Ginhoux, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore
- 03.10.2016 – 19.04.2017 Yingnan Lyu, Final Year Project student, B. Sc. (Honors) in Life Sciences, National University of Singapore (NUS), Singapore  
Lab of Dr Florent Ginhoux, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore
- 17.10.2016 – 03.02.2017 Celine Fang Ying Lim, Internship student (Industrial Attachment), Diploma in Biomedical Science, Ngee Ann Polytechnic  
Lab of Dr Florent Ginhoux, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore
- 14.04.2016 – 02.09.2016 Flavien Brouiller, Master's programme attachment (SIPGA scholarship), Masters in Genetics, Universite Paris VII Diderot  
Lab of Dr Florent Ginhoux, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A\*STAR), Singapore
- 31.03.2015 – 28.05.2015 Linda Rama, Biomedical Laboratory Science: Degree Project, Faculty of Health, Science and Technology, Karlstad University, Karlstad, Sweden  
Lab of Prof Luigina Romani, Dipartimento di Medicina Sperimentale, Università degli Studi di Perugia
- 27.08.2012 – 06.11.2012 Teaching assistant to Year 1 undergraduate students for laboratory practical component of LSM1102 – Molecular Genetics, Yong Yoo Lin School of Medicine, National University of Singapore, Singapore, as part of teaching component to Doctorate programme (total of 40 hours)

## SCIENCE COMMUNICATION AND COMMUNITY OUTREACH EXPERIENCE

Multiple years	Gave crash courses (2-3 hours each) in Powerpoint and Inkscape for science vector illustration to interested scientists and students
26.09.2025	Participated in Sharper European Researchers' Night event activities in Perugia, Italy – Title: Flying Science: Mosquitoes and Infectious Diseases (La Scienza Volante: Zanzare e Malattie Infettive) – which involved explaining to the public (children, high school students, and adults) about the mosquitoes, the diseases they carry, and how we can prevent mosquito breeding.
27.09.2024	Designed graphic flyers and participated for Sharper European Researchers' Night event activities in Perugia, Italy – Title: Flying Science: Mosquitoes and Infectious Diseases (La Scienza Volante: Zanzare e Malattie Infettive) – which involved explaining to the public (children, high school students, and adults) about the mosquitoes, the diseases they carry, and how we can prevent mosquito breeding.
29.09.2023	Designed graphic flyers and participated for Sharper European Researchers' Night event activities in Perugia, Italy – Title: The microbiome and cancer (and other diseases// microbioma e cancro (e altre malattie) – which involved explaining to the public (children, high school students, and adults) about the role of the microbiome in health and disease. Clinically pathogenic bacteria on sealed agar plates were also exhibited. Children were taught about the shapes of bacteria using balloon folding.
14.09.2023	Seminar on Scientific Record Keeping to group members – Roberta Spaccapelo lab, Università degli Studi di Perugia, Perugia, Italy
16.11.2022	Gave a seminar “Visualizing Science: Bringing your science to life through art” as part of the Yale Cell Biology “Beyond the Bench” Seminar series
30.09.2022	Designed graphic flyers and participated for Sharper European Researchers' Night event activities in Perugia, Italy – Title: The microbiome and cancer (and other diseases// microbioma e cancro (e altre malattie) – which involved explaining to the public (children, high school students, and adults) about the role of the microbiome in health and disease. Clinically pathogenic bacteria on sealed agar plates were also exhibited.
May 2019	Designed graphics for printing on T-shirts and mug for the Pint of Science event in Singapore. See graphics portfolio: <a href="https://aliciawong.pb.online/">https://aliciawong.pb.online/</a>
September 2018	Compiled a video for Sharper European Researchers' Night event activities in Perugia, Italy
29.11.2017	A*STAR Scholarship Talk to diploma students in Singapore Polytechnic
April 2013	Directed and produced a video on the Microbiome in conjunction with Day of Immunology activities in SgN, A*STAR Singapore

Years 2012, 2013, and 2014 Contributed vector graphics for institutes public outreach material in the annual Singapore Science Festival: X-periment, participated on the actual days by manning the booth and interacting with interested members of the public. See graphics portfolio: <https://aliciawong.pb.online/>

#### CONFERENCE PARTICIPATION

- 15.09.2025 Oral presentation  
Title: Discovering insights from the microbiome in breast cancer to advanced personalized medicine  
Symposium on Novel Experimental Models in Biomedical Research (VENERE), Perugia, Italy
- 14.09.2021 – 17.09.2021 Poster presentation  
Title: Comparison of Four *Streptococcus pneumoniae* Urinary Antigen Tests Using Automated Readers  
Digitally presented at: [https://youtu.be/GZ\\_2Kaf9PY8](https://youtu.be/GZ_2Kaf9PY8)  
Infektionsveckan/Mikrobiologiskt Höstmöte (online), Uppsala, Sweden
- 14.09.2021 – 17.09.2021 Poster presentation  
Title: Evaluation of four lateral flow assays for the detection of *Legionella* urinary antigen  
Digitally presented at: <https://youtu.be/VTvb4KVDvgU>  
Infektionsveckan/Mikrobiologiskt Höstmöte (online), Uppsala, Sweden
- 18.06.2020 – 22.06.2020 (conference cancelled) Poster abstract accepted  
Title: Comparison of four lateral flow tests with automated reading for rapid detection of *S. pneumoniae* urinary antigen  
ASM Microbe 2020, Chicago, USA
- 18.04.2020 – 21.04.2020 (conference cancelled) Poster abstract accepted  
Title: Identification of microorganisms in polymicrobial blood culture bottles using short-term culture MALDI-TOF MS  
30<sup>th</sup> ECCMID, Paris, France
- 31.05.2018 – 01.06.2018 Poster presentation  
Title: Runx1 and Runx3 Deficiency Impacts Gut Conventional Dendritic Cells and Results In Perturbed T Cell Homeostasis  
SgSI 10<sup>th</sup> Anniversary Symposium, Singapore
- 26.05.2016 – 27.05.2016 Poster presentation  
Title: Impact of runx1 and runx3 deficiency on peripheral dendritic cell homeostasis  
8th International Singapore Symposium of Immunology, Singapore
- 17.01.2015 – 23.01.2015 Poster and oral presentation  
Title: Control of the Ca<sup>2+</sup>/Calcineurin/NFAT Pathway by Fungi Through LRRK2 Protein Degradation  
Gordon Research Seminar/Gordon Research Conference – Immunology of Fungal Infections – Basic Mechanisms and Translational Implications, Galveston, Texas, USA

- 12.01.2013 – 18.01.2013    Poster presentation  
Title: Modulation of the Immune System in Response to Fungal Infection  
Through NFAT Pathway  
Gordon Research Seminar/Gordon Research Conference – Immunology of  
Fungal Infections, Galveston, Texas, USA
- 15.04.2012 – 22.04.2012    Poster presentation  
Title: IL-2 Production by Dendritic Cells: A Novel Innate Cytokine in  
Antimicrobial Defense  
7th ENII Immunology Summer School 2012, Porto Conte, Sardinia, Italy