

# 個人履歷

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## 人員簡介

黃耀南，澳門科技大學醫學院助理教授，先後畢業於北京師範大學和英國謝菲爾德大學，並進入牛津大學從事博士後研究，主要致力於利用生物化學、結構生物學、細胞生物學及蛋白質組學的方法去進行新功能基因的鑒定和生物大分子功能分析的研究。過去曾從病毒和人類中，成功發現幾種負責遺傳物質脫氧核糖核酸的復制和修復的蛋白因子，相關的成果已在 *Nucleic Acid Res.*, *eLife*, *Sci. Rep.* 等期刊上發表。他現在主要研究的方向是在一些未被發現或未知功能的天然產物分子中，找出一些與癌症、神經退化性疾病、免疫調節相關的化合物並探究其作用與分子機理，從而開展針對性的藥物研發及臨床轉化，相關的一些成果已發表在 *Food Chem.:X*, *Int. J. Biol. Macromol.* 等期刊上。今年，他被澳門特區政府委任為人才發展委員會大健康產業專責小組成員。

## 學歷

2012 年：英國謝菲爾德大學醫學博士學位 (Outright Pass)

2007 年：英國謝菲爾德大學分子醫學(遺傳)碩士學位 (Distinction)

2006 年：北京師範大學生物學學士學位

## 工作經驗

2019 年 7 月至今：澳門科技大學助理教授

2013 年–2019 年：英國牛津大學博士後研究員

2012 年–2013 年：英國謝菲爾德大學博士後研究員

2007 年–2008 年：英國謝菲爾德大學實驗室技術員

## 個人獎項

2008 年–2012 年：英國謝菲爾德大學博士獎學金

2006 年–2007 年：澳門高等教育局研究生獎學金

2002 年–2006 年：澳門教育暨青年局大專獎學金

2002 年：澳門蓮花獎

1999 年：澳門總督獎

## 當前的學術任職

澳門科技大學學術誠信委員會成員

澳門科技大學學生紀律獎懲委員會委員

澳門科技大學跨學科教學實驗室委員會委員

澳門科技大學醫學院內外全科學士學位課程遴選委會成員

澳門科技大學醫學院內外全科學士學位課程評估委員會成員

## 研究項目

1. Wong Io Nam (PI), Sookja Kim Chung (Co-I), Molecular mechanism of Caulerpa sulfated polysaccharides on immunometabolic reprogramming by targeting COX-2-induced ferroptosis, FDCT-NSFC 2022-2024. Project No. 0069/2021/AFJ.
2. Wong Io Nam (PI), Characterization of potential novel pro- and anti-viral host factors from proximity-dependent biotin identification (BioID) screen for SV40 host restriction factor FAM111A, FRG 2022-2023. Project No. FRG-22-022-FMD.
3. Zhang Kang (PI), Wong Io Nam (Co-I), Simon Wing Fai Mok (Co-I), Induction of conjunctival stem cells into limbal-like stem cells and corneal reconstruction, FDCT 2020-2023. Project No. 0007/2020/AFJ.
4. Simon Wing Fai Mok (PI), Wong Io Nam (Co-I), Vincent Kam Wai Wong (Co-I), To unveil the modulatory role of p53 aggregates in the progression of Rheumatoid Arthritis, FDCT 2023-2025. Project No. 0037/2022/ITP.
5. Olivia Monteiro (PI), Wong Io Nam (Co-I), Brian Tomlinson (Co-I), Christopher Wai Kei Lam (Co-I), Effects of Sinopharm BBIBP-CorV and BioNTech mRNA primary vaccine series with homologous and heterologous boosters against SARS-CoV2 variants of concern in a local population in Macao. FDCT 2022-2023. Project No. 0106/2021/A.

## 主要學術成果

1. Tam HH, Zhu D, Ho SSK, Vong HW, Wong VKW, Mok SWF, Wong IN. Potential enhancement of post-stroke angiogenic response by targeting the oligomeric aggregation of p53 protein (2023). *Front. Cell. Neurosci.*, 17.
2. Qiu C, Chan JTW, Zhang DW, Wong IN, Zeng Y, Law BYK, Mok SWF, Dias IRDSR, Liu W, Liu L, Wong VKW. The potential development of drug-resistance in rheumatoid arthritis patients identified with p53 mutations (2023). *Genes Dis.* (Accepted)
3. Wu Y, Liu J, Hao H, Hu L, Zhang X, Luo L, Zeng J, Zhang W, Wong IN, Huang R. A new polysaccharide from *Caulerpa chemnitzia* induces molecular shifts of immunomodulation on macrophages RAW264.7 (2022). *Food Chem.:X*, 14: 100313.
4. Yang L, Liu J, Xia X, Wong IN, Chung SK, EI-Seedi HR, Wang B, Hunag R. Sulfated heteropolysaccharides from *Undaria pinnatifida*: Structural characterization and transcript-metabolite profiling of immunostimulatory effects on RAW264. 7 cells (2022). *Food Chem.: X*, 13:100264.
5. Xia X, Hao H, Zhang X, Wong IN, Chung SK, Chen Z, Xu B, Huang R. Immunomodulatory sulfated polysaccharides from *Caulerpa racemosa* var. *peltata* induces metabolic shifts in NF- $\kappa$ B signaling pathway in RAW 264.7 macrophages (2021). *Int J Biol Macromol.*, 182:321-332.
6. Monteiro O, Bhaskar A, Wong IN, Ng AKM, Baptista-Hon DT. Teaching bioelectricity and neurophysiology to medical students using LabAXON simulations (2021). *Adv Physiol Educ.*, 45(4):702-708.
7. Wong IN, Neo JPS, Oehler J, Schafhauser S, Osman F, Carr SB, Whitby MC (2019). The Fml1-MHF complex suppresses inter-fork strand annealing in fission yeast. *eLife*, 8, e49784.
8. Morrow CA, Nguyen MO, Fower A, Wong IN, Osman F, Bryer C, Whity MC (2017). Inter-fork strand annealing causes genomic deletions during the termination of DNA replication. *eLife*, 6, e25490.
9. Wong IN, Sayers JR, Sanders CM (2016). Bacteriophage T5 gene D10 encodes a branch-migration protein. *Scientific Reports*, 6, 39414.
10. Wong IN, Sayers JR, Sanders CM (2013). Characterization of an unusual bipolar helicase encoded by bacteriophage T5. *Nucleic Acids Res*, 41(8), 4587-600.

# Curriculum Vitae

Name: Io Nam Wong

Position: Assistant Professor

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## Biography

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Dr. Io Nam Wong holds an assistant professorship in the Faculty of Medicine of MUST since July, 2019. He achieved his B.Sc. degree (2006) in Biology at Beijing Normal University and completed M.Sc. degree (2007) in Molecular Medicine (Genetics) and Ph.D. degree (2012) in Medicine from the University of Sheffield (UK). Before joining MUST, Dr. Wong worked as a postdoctoral researcher at the University of Sheffield and Oxford. He employed a wide range of state-of-the-art protein biochemistry, structural biology, cell biology and proteomics techniques to identify several novel DNA replication and repair factors from virus and human. These findings were published in well-recognized journals, i.e., *Nucleic Acid Res.*, *eLife*, *Sci. Rep.* His current research interest is to find natural compounds with translational potential to act on cancers, neurodegenerative disorders, immunoregulation and to explore the underlying mechanisms. Some of his recent findings were published in *Food Chem.:X* and *Int. J. Biol. Macromol.* Recently, he has been appointed as a member of the task force on “One Health” of the talent development committee by Macao SAR government.

## Qualifications

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2012: PhD in Medicine, University of Sheffield (Outright Pass)

2007: MSc in Molecular Medicine (Genetics) with Distinction, University of Sheffield

2006: BSc in Biology, Beijing Normal University

## **Positions**

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Jul 2019 – present: Assistant Professor, Macau University of Science and Technology

2013 – 2019: Postdoctoral Research Fellow, University of Oxford

2012 – 2013: Postdoctoral Research Fellow, University of Sheffield

2007 – 2008: Graduate Technician, University of Sheffield

## **Selected Awards and Honours**

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2008-2012: Sheffield University Doctoral Fellowship

2006-2007: Macau Postgraduate Scholarship

2002-2006: Macau Tertiary Scholarship

2002: Macau Lotus award

1999: Macau Governor's award

## **Current Professional Activities**

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Member of academic integrity committee

Member of student disciplinary committee

Member of interdisciplinary teaching laboratory committee

Member of selection committee for MBBS programme

Member of academic assessment committee for MBBS programme

## **Research Project Grants**

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1. Wong Io Nam (PI), Sookja Kim Chung (Co-I), Molecular mechanism of Caulerpa sulfated polysaccharides on immunometabolic reprogramming by targeting COX-2-induced ferroptosis, FDCT-NSFC 2022-2024. Project No. 0069/2021/AFJ.
2. Wong Io Nam (PI), Characterization of potential novel pro- and anti-viral host factors from proximity-dependent biotin identification (BioID) screen for SV40 host restriction factor FAM111A, FRG 2022-2023. Project No. FRG-22-022-FMD.
3. Zhang Kang (PI), Wong Io Nam (Co-I), Simon Wing Fai Mok (Co-I), Induction of conjunctival stem cells into limbal-like stem cells and corneal reconstruction, FDCT 2020-2023. Project No. 0007/2020/AFJ.
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primary vaccine series with homologous and heterologous boosters against SARS-CoV2 variants of concern in a local population in Macao. FDCT 2022-2023. Project No. 0106/2021/A.

## Representative Publications

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1. Tam HH, Zhu D, Ho SSK, Vong HW, Wong VKW, Mok SWF, Wong IN. Potential enhancement of post-stroke angiogenic response by targeting the oligomeric aggregation of p53 protein (2023). *Front. Cell. Neurosci.*, 17.
2. Qiu C, Chan JTW, Zhang DW, Wong IN, Zeng Y, Law BYK, Mok SWF, Dias IRDSR, Liu W, Liu L, Wong VKW. The potential development of drug-resistance in rheumatoid arthritis patients identified with p53 mutations (2023). *Genes Dis.* (Accepted)
3. Wu Y, Liu J, Hao H, Hu L, Zhang X, Luo L, Zeng J, Zhang W, Wong IN, Huang R. A new polysaccharide from *Caulerpa chemnitzia* induces molecular shifts of immunomodulation on macrophages RAW264.7 (2022). *Food Chem.:X*, 14: 100313.
4. Yang L, Liu J, Xia X, Wong IN, Chung SK, EI-Seedi HR, Wang B, Hunag R. Sulfated heteropolysaccharides from *Undaria pinnatifida*: Structural characterization and transcript-metabolite profiling of immunostimulatory effects on RAW264. 7 cells (2022). *Food Chem.: X*, 13:100264.
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6. Monteiro O, Bhaskar A, Wong IN, Ng AKM, Baptista-Hon DT. Teaching bioelectricity and neurophysiology to medical students using LabAXON simulations (2021). *Adv Physiol Educ.*, 45(4):702-708.
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8. Morrow CA, Nguyen MO, Fower A, Wong IN, Osman F, Bryer C, Whity MC (2017). Inter-fork strand annealing causes genomic deletions during the termination of DNA replication. *eLife*, 6, e25490.
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