

Professor Emad Munir El-Omar

Professor of Medicine, University of New South Wales;
Consultant gastroenterologist, St George Hospital, Sydney.
Director, Microbiome Research Centre, St George Hospital



EDUCATION:

B.Sc. (Hons) in Pathology, (1986). University of Glasgow

M.B., Ch.B., (1988). University of Glasgow

M.R.C.P. (UK), (1991).

M.D. Awarded **with Honours and Bellahouston Medal** July 1995.

Title: The Effect of *Helicobacter pylori* Infection on Gastric Acid Secretion in Man.

FRCP (Edinburgh), 2002;

FRSE 2007;

FRACP 2017

Previous Appointments

1993- 1995: Lecturer in Medicine and Gastroenterology, Honorary Career Registrar, University of Glasgow and Greater Glasgow Health Board.

1995- 1997: Lecturer in Medicine, Honorary Senior Registrar, University of Glasgow and Greater Glasgow Health Board. Mentor: Professor Kenneth EL McColl.

1997- 1998: Visiting Scholar, Department of Medicine, Vanderbilt University Medical Centre, Nashville, Tennessee, USA.

1998- 2000: Visiting Scientist, Division of Cancer Epidemiology & Genetics, National Cancer Institute, National Institutes of Health, Rockville, Maryland.

July 2000- February 2016: Foundation Professor of Gastroenterology and Honorary Consultant Physician at the University of Aberdeen and Grampian University Hospitals, Aberdeen, Scotland.

Research Interests

- Role of gut microbiome in pathogenesis and treatment of GI cancer, IBD.
- Role of the microbiome in health and disease.
- Pathogenesis of *H. pylori* infection and its role in peptic ulcer disease & gastric cancer.
- Role of host genetic factors in the pathogenesis of GI malignancy.
- Role of chronic inflammation in GI malignancy.

Selected Recent Publications relevant to microbiome research:

- Fecal microbiota transplantation confers beneficial metabolic effects of diet and exercise on diet-induced obese mice. Lai ZL, Tseng CH, Ho HJ, Cheung CKY, Lin JY, Chen YJ, Cheng FC, Hsu YC, Lin JT, **El-Omar EM**, Wu CY. *Sci Rep.* 2018 Oct 23;8(1):15625.
- Efficacies of Genotypic Resistance-Guided vs Empirical Therapy for Refractory *Helicobacter pylori* Infection. Liou JY, Chen PY, Luo JC, ..., **El-Omar EM**, and Wu MS. *Gastroenterology* 2018;155:1109–19.
- Adaptive response of neonatal sepsis-derived Group B Streptococcus to bilirubin. Hansen R, Gibson S, De Paiva Alves E, Goddard M, MacLaren A, Karcher AM, Berry S, Collie-Duguid ESR, El-Omar E, Munro M, Hold GL. *Sci Rep.* 2018 Apr 24;8(1):6470.
- Multi-omics differentially classify disease state and treatment outcome in pediatric Crohn's disease. Douglas GM, Hansen R, Jones CMA, Dunn KA, Comeau AM, Bielawski JP, Tayler R, El-Omar EM, Russell RK, Hold GL, Langille MGI, Van Limbergen J. *Microbiome.* 2018 Jan 15;6(1):13.

- Primary antibiotic resistance in *Helicobacter pylori* in the Asia-Pacific region: a systematic review and meta-analysis. Kuo YT, Liou JM, El-Omar EM, Wu JY, Leow AHR, Goh KL, Das R, Lu H, Lin JT, Tu YK, Yamaoka Y, Wu MS; Asian Pacific Alliance on *Helicobacter* and Microbiota. **Lancet Gastroenterol Hepatol**. 2017 Aug 3. pii: S2468-1253(17)30219-4.
 - Malfertheiner P, Megraud F, O'Morain CA, Gisbert JP, Kuipers EJ, Axon AT, Bazzoli F, Gasbarrini A, Atherton J, Graham DY, Hunt R, Moayyedi P, Rokkas T, Rugge M, Selgrad M, Suerbaum S, Sugano K, **El-Omar EM**. Management of *Helicobacter pylori* infection-the Maastricht V/Florence Consensus Report. **Gut**. 2017 Jan;66(1):6-30.
 - Watt E, Gemmell MR, Berry S, Glaire M, Farquharson F, Louis P, Murray GI, **El-Omar E**, Hold GL. Extending colonic mucosal microbiome analysis-assessment of colonic lavage as a proxy for endoscopic colonic biopsies. **Microbiome**. 2016 Nov 25;4(1):61.
 - Liou JM, Fang YJ, Chen CC, Bair MJ, Chang CY, Lee YC, Chen MJ, Chen CC, Tseng CH, Hsu YC, Lee JY, Yang TH, Luo JC, Chang CC, Chen CY, Chen PY, Shun CT, Hsu WF, Hu WH, Chen YN, Sheu BS, Lin JT, Wu JY, **El-Omar EM**, Wu MS. Concomitant, bismuth quadruple, and 14-day triple therapy in the first-line treatment of *Helicobacter pylori*: a multicentre, open-label, randomised trial. **Lancet**. 2016 Nov 12;388(10058):2355-2365.
 - Hunt RH, Camilleri M, Crowe SE, **El-Omar EM**, Fox JG, Kuipers EJ, Malfertheiner P, McColl KE, Pritchard DM, Rugge M, Sonnenberg A, Sugano K, Tack J. The stomach in health and disease. **Gut**. 2015 Oct;64(10):1650-68.
 - Sugano K, Tack J, Kuipers EJ, Graham DY, **El-Omar EM**, Miura S, Haruma K, Asaka M, Uemura N, Malfertheiner P; faculty members of Kyoto Global Consensus Conference. Kyoto global consensus report on *Helicobacter pylori* gastritis. **Gut**. 2015 Sep;64(9):1353-67.
 - Mukhopadhyay I, Hansen R, Meharg C, Thomson JM, Russell RK, Berry SH, **El-Omar EM**, Hold GL. The fungal microbiota of de-novo paediatric inflammatory bowel disease. **Microbes Infect**. 2015 Apr;17(4):304-10. doi: 10.1016/j.micinf.2014.12.001.
 - McLean MH and **El-Omar EM**. Genetics of gastric cancer. **Nature Reviews Gastroenterology and Hepatology**; 2014 Nov;11(11):664-674.
 - Adams AT, Kennedy NA, Hansen R, Ventham NT, O'Leary KR, Drummond HE, Noble CL, **El-Omar E**, Russell RK, Wilson DC, Nimmo ER, Hold GL, Satsangi J. Two-stage genome-wide methylation profiling in childhood-onset Crohn's Disease implicates epigenetic alterations at the VMP1/MIR21 and HLA loci. **Inflamm Bowel Dis**. 2014 Oct;20(10):1784-93.
 - Kostic AD, Chun E, Robertson L, Glickman JN, Gallini CA, Michaud M, Clancy TE, Chung DC, Lochhead P, Hold GL, **El-Omar EM**, Brenner D, Fuchs CS, Meyerson M, Garrett WS. *Fusobacterium nucleatum* potentiates intestinal tumorigenesis and modulates the tumor-immune microenvironment. **Cell Host Microbe**. 2013 Aug 14;14(2):207-15.
 - Hansen R, Russell RK, Reiff C, Louis P, McIntosh F, Berry SH, Mukhopadhyay I, Bissett WM, Barclay AR, Bishop J, Flynn DM, McGrogan P, Loganathan S, Mahdi G, Flint HJ, **El-Omar EM**, Hold GL. Microbiota of De-Novo Pediatric IBD: Increased *Faecalibacterium Prausnitzii* and Reduced Bacterial Diversity in Crohn's But Not in Ulcerative Colitis. **Am J Gastroenterol**. 2012 Dec;107(12):1913-22.
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阮雪芬 特聘教授

學歷：

國立臺灣大學 生化科學博士 1999 年
國立臺灣大學 植物所碩士 1994 年
國立臺灣大學 植物所學士 1992 年

現職：

國立臺灣大學 生醫電子與資訊學研究所 特聘教授
國立臺灣大學 生命科學系 特聘教授
Scientific Reports (Nature Research) Editorial Board Member

經歷：

國立臺灣大學 生醫電子與資訊學研究所助理教授, 副教授, 教授
國立臺灣大學 生命科學系助理教授, 副教授, 教授
美國加州大學 洛杉磯分校 化學與生物分子工程學系 訪問學者
日本奈良先端科學技術大學院大學 生物科學研究所 訪問學者
國立台灣大學 資訊工程系 兼任助理教授
國立臺北科技大學 化學工程系 助理教授

其他

科技部學術研究傑出獎

科技部大專學生研究計畫研究創作獎之指導教授獎

中華民國資訊學會李國鼎穿石獎

中華民國資訊學會最佳指導教授獎

中華民國十大傑出青年(醫學研究)

Emerging Information and Technology Association (EITA) Service Award, USA

Japan Society for the Promotion of Science (JSPS) Fellowship, Japan

Lee, W.-H., Chen, K.-P., Wang, K., Huang, H.-C.*, **Juan, H.-F.*** (2020) "Characterizing the cancer-associated microbiome with small RNA sequencing data" *Biochemical and Biophysical Research Communications* 522(3):776-782.

Huang, C.-T., Hsieh, C.-H., Lee, W.-C., Liu, Y.-L., Yang, T.-S., Hsu, W.-M., Oyang, Y.-J., Huang, H.-C.*, **Juan, H.-F.*** (2019) "Therapeutic targeting of non-oncogene dependencies in high-risk neuroblastoma" *Clinical Cancer Research* 25(13):4063-4078.

邱世浩 研究員

學歷：

清華大學 分子醫學研究所 博士 (2003~2007)

清華大學 輻射生物研究所 碩士 (1995~1997)

東吳大學 微生物系 學士 (1988~1992)

現職：

財團法人食品工業發展研究所 生物資源保存及研究中心 研究員 (2007~)

經歷：

財團法人食品工業發展研究所生物資源保存及研究中心 副研究員 (2002~2007)

財團法人食品工業發展研究所菌種保存及研究中心 副研究員 (1997~2001)

研究專長領域：

生物資訊學、微生物基因體學

近期參與計畫：

經濟部科技專案計畫：生物資源之創新加值與服務優化四年計畫

農委會科技計畫：農業及食品微生物種原拓展與加值利用

經濟部技術處：創新生技醫藥產業技術綱要計畫

Dr. Kshitij Tandon
Post-doctoral Fellow
Biodiversity Research Center, Academia Sinica,
Taipei, Taiwan



Education

Ph.D. Academia Sinica and National Tsing Hua University, July, 2020
M.Tech Bioinformatics, University of Hyderabad, India, 2015
B.Tech Biotechnology, India, 2012

Current Positions

Post-doctoral Research Fellow, Biodiversity Research Center, Academia Sinica

Awards

AS-TIGP Research Scholarship, 2020
Best Oral Presentation Award, 2020, Taiwan Coral-reef Society
MOST-Travel Grant, FEMS-2019
TIGP-Travel Grant, FEMS-2019
Visiting Student, Australian National University, Canberra ACT, Australia, 2018
TIGP-Fellowship, PhD Bioinformatics, 2015-2020
TIGP-IIP International Summer-Internship, 2015
Govt. of India, Scholarship, GATE-2013 M.Tech Bioinformatics

Research Interests

Microbiome data analytics
Genomic and Metagenomics of Aquatic Ecosystems
Comparative genomics

Publications (10 peer-reviewed research articles and 2 preprints)

Tandon K et al., 2020 "Comparative genomics: Dominant coral-bacterium *Endozoicomonas acroporae* metabolizes dimethylsulfoniopropionate (DMSP)" **ISME J.**

Yang SH, **Tandon K** et al., 2019 "Metagenomic, phylogenetic, and functional characterization of predominant endolithic green sulfur bacteria in the coral *Isopora palifera*" **Microbiome.**

Tandon K et al., 2018 "Bacterial community in water and air of two sub-alpine lakes in Taiwan" **Microbes and Environments.**

Tandon K et al., 2018 "Draft genome sequence of *Endozoicomonas acroporae* strain Acr-14^T, isolated from *Acropora* Coral" **Genome Announcements.**

Herath D, Tang SL, **Tandon K** et al., 2017 "CoMet: a workflow using contig coverage and composition for binning a metagenomic sample with high precision, **BMC Bioinformatics.**

Alena L. Pribyl, Ph.D.

Senior Scientist

Microba Life Sciences



Education

Ph.D. Oregon State University, 2010
M.A. University of Colorado-Boulder, 2002
B.Sc. (Hons) Oregon State University, 1999

Current Position

Senior Scientist and Research Officer, Microba Life Sciences, Brisbane, QLD (Jan 2018 – present)

Professional Experience

Research Assistant, Australian Centre for Ecogenomics, University of QLD Laboratory Manager (maternity leave replacement), Australian Centre for Ecogenomics, University of QLD Project Scientist, California Ocean Science Trust, Oakland, CA Science Policy Fellow, Senate Committee on Natural Resources and Water (SNRW), California Legislature National Research Council Postdoctoral Fellow, NOAA SW Fisheries Science Center, La Jolla, CA

Research Interests

Host-gut microbiota metabolic interactions Precision measurement of the gut microbiome Gut microbiome involvement in IBD, NAFLD and immuno-oncology

Select Scientific Publications

Pribyl, A.L., D. H. Parks, N. Z. Angel,... L. Krause, G. W. Tyson , P. Hugenholtz. 2020. Critical evaluation of methods for preservation of faecal microbiomes using metagenomic analysis. (In preparation).

Pribyl, A.L., J. Hyde, L. Robertson, and R. Vetter. 2016. Defining an ideal temperature range for the northern subpopulation of Pacific sardine, *Sardinops sagax caeruleus*. *Environmental Biology of Fishes* 99 (2- 3): 275 -291.

Pribyl, A. L., C. B. Schreck, M. L., S. J. Parker and V. Weis. 2012. Identification of biomarkers indicative of barotrauma and recovery in Pacific rockfish. *Journal of Fish Biology* 81(1): 181-196.

Pribyl, A. L., C. B. Schreck, M. L. Kent, K. Kelley and S. J. Parker. 2012. Recovery potential of black rockfish (*Sebastes melanops*) following recompression. *Journal of Fish Diseases* 35 (4): 275-286.

Pribyl, A. L., S.J. Parker, M. L. Kent, and C.B. Schreck. 2011. The response of six species of Pacific rockfish to forced decompression. *Transactions of the American Fisheries Society* 140 (2): 374-383.

Select Non-technical Publications

Pribyl, A. 2020. A small history of the microbiome. Australia's Science Channel.

<https://australiascience.tv/a-small-history-of-the-microbiome/>

Pribyl, A. 2020. Ageing well: You and your gut microbiome. Microba Blog.

<https://www.microba.com/blog/ageing-well-you-and-your-gut-microbiome/>

Pribyl, A. 2019. How smart is your gut? The gut-brain axis explained. Microba Blog.

<https://www.microba.com/blog/how-smart-is-your-gut-the-gut-brain-axis-explained/>

Pribyl, A. 2019. Gut Health 101: Bacteria, Disease & Maintenance. Vitamin C Blog.

<https://vitaminblog.com/gut-health-101-bacteria-disease-maintenance/>

Pribyl, A. 2018. What Is A Healthy Gut Microbiome? Women Love Tech.

<https://womenlovetech.com/dr-alena-pribyl-what-is-a-healthy-gut-microbiome/> Select

Podcast/Radio Interviews

Pribyl, A. 2020. Gut Microbiome Research and Analysis: Where To And Where From. Love and Guts,

Lynda Griparic. <http://www.lyndagriparic.com/alena-pribyl-gut-microbiome-research-and-analysis-where-to-and-where-from/>

Pribyl, A. 2020. #91 What Makes A Healthy Gut? The Holistic Nutritionists Podcast.

<https://theholisticnutritionistspodcast.libsyn.com/91-what-makes-a-healthy-gut>

Pribyl, A. 2019. Episode 9 - The Microbiota and Stool Testing - Dr Alena

Pribyl. The Forensic Nutritionist Podcast. <https://podtail.com/en/podcast/the-forensic-nutritionist-podcast/episode-9-themicrobiota-and-stool-testing-dr-alen/>

Pribyl, A. 2019. Fibre and Gut Health. Interview with Ultra106five radio station, Hobart, Tasmania. <https://ultra106five.com/fibre-gut-health/>

Pribyl, A. 2019. Episode #24: All things gut health! The Wellness Daily Show.

<https://www.wellnessdaily.com.au/podcast/episode-24-all-things-gut-health> Featured in Raasina, M. 2020. Dr Alena

Pribyl: Breaking Ground and Barriers in Microbiome Research. STEM Magazine.

<https://www.stemmagazine.com/gFEB20fmeype/viewer/desktop/#page/1> Raassina, M. 2020.

Breaking ground in gut microbiome research. The Naked Scientists.

<https://www.thenakedscientists.com/articles/science-features/breaking-ground-gut-microbiomeresearch>

Outreach Video

Is Barotrauma Keeping You Up? Try Getting Down with Recompression! 2013. Produced by A. Pribyl. Written by A. Pribyl, M. Love, J. Hyde and M. McCrea. Music by R. Troll and R. Whodehouse. Filmed and directed by J. Dutton. Web address: <http://www.youtube.com/watch?v=EiZFghwVOyI>

Select Invited Talks

Pribyl, A. 2019. Exploring the links between gut microbial metabolites, health outcomes and diet. *Lifestyles Medicine Conference 2019*, Auckland, NZ.

Pribyl, A. 2019. Is the Secret to Healthy Ageing in Your Gut? Brain & Biome event, Lifestyle Medicine Conference 2019. Auckland, NZ.

Pribyl, A. 2019. How the microbes in your gut may be influencing your brain. University of Queensland Professionals Network Conference 2019. Brisbane, QLD.

Pribyl, A. 2019. Eating for trillions - the links between what you eat and your microbiome. Public seminar as part of the Hedonism Exhibit, MOD Museum, Adelaide, SA.

Pribyl, A. 2019. Links between the gut microbiome and chronic disease. The 2019 International Congress on Natural Medicine (Metagenics). Gold Coast, QLD.

Pribyl, A. 2019. Using metagenomics to explore the links between the gut microbiome and disease. Brisbane Joint Academy of Microbiology Seminars (BrisJAMS), Brisbane, QLD.

Pribyl, A. 2018. Introducing metagenomic sequencing of the gut and how it can be used in personalized medicine. Lifestyle Medicine Conference 2018. Brisbane, QLD.

黃建勳 研究員

Chien-Hsun Huang

財團法人食品工業發展研究所生物資源保存及研究中心 研究員

學歷：

中興大學動物科學研究所碩士 2006 年

現職：

財團法人食品工業發展研究所生物資源保存及研究中心 研究員 (2014~迄今)

經歷：

財團法人食品工業發展研究所生物資源保存及研究中心 副研究員
(2012~2013)

財團法人食品工業發展研究所生物資源保存及研究中心 國防訓儲
(2008~2012)

江殷儒 副研究員

學歷：

德國弗萊堡大學 生物學博士 2007 年

現職：

中央研究院 生物多樣性研究中心 長聘副研究員 (2018~迄今)

東吳大學 微生物學系 兼任副教授

慈濟大學 生命科學系 兼任副教授

經歷：

中央研究院 生物多樣性研究中心 長聘副研究員(2012~2018)

長庚大學 天然藥物研究所 助理教授 (2009~2012)

科技部特約博士後研究員 (2008~2009)

研究專長領域：厭氧微生物之生理與代謝、系統生物學、代謝體學

代表性研究著作：

1. Wang PH, Chen YL, Wei STS, Wu K, Lee TH, Wu TY, Chiang YR (2020) Retroconversion of estrogens into androgens by bacteria via a cobalamin-mediated methylation. *Proceedings of the National Academy of Sciences of the United States of America* 117: 1395-1403 (IF: 9.580; SCI ranking: 7.8%) **(highlight by a PNAS Commentary entitled “Anaerobic bacteria need their vitamin B₁₂ to digest estrogen”)**
 2. Wei STS, Wu YW, Lee TH, Huang YS, Yang CY, Chen YL, ***Chiang YR** (2018) Microbial functional responses to cholesterol catabolism in denitrifying sludge. *mSystems* 3:e00113-18 (IF: 6.519; SCI ranking: 10.9%)
 3. Chen YL, Yu C P, Lee TH, Goh KS, Chu KH, Wang PH, Ismail W, Shih CJ, ***Chiang YR** (2017) Biochemical mechanisms and catabolic enzymes involved in bacterial estrogen degradation pathways. *Cell Chemical Biology* 24: 712-724. (Cell Press; previously known as *Chemistry & Biology*; IF: 6.762; SCI ranking: 6.0%) **(highlight by a CCB Preview entitled “Bacteria and the fate of estrogen in the environment”)**
 4. Yang FC, Chen YL, Tang SL, Yu CP, Wang PH, Ismail W, Wang CH, Ding JY, Yang CY, Yang CY, ***Chiang YR** (2016) Integrated multi-omics analyses reveal the biochemical mechanisms and phylogenetic relevance of anaerobic androgen biodegradation in the environment. *ISME Journal* 10: 1967–1983. (Nature Publishing Group; IF: 9.664; SCI ranking: 1.9%, 4.2%)
 5. Lin CW, Wang PH, Ismail W, Tsai YW, El Nayal A, Yang CY, Yang FC, Wang CH, ***Chiang YR** (2015) Substrate uptake and subcellular compartmentation of anoxic cholesterol catabolism in *Sterolibacterium denitrificans*. *Journal of Biological Chemistry* 290: 1155–1169. (IF: 4.573; SCI ranking: 21.0%)
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林稚容 博士

學歷:

1994/09 至 1998/06 台灣大學醫學院醫事技術系學士

1998/09 至 2004/06 台灣大學醫學院微生物學研究所博士

現職及相關經歷:

現任:

長庚大學醫學生物技術暨檢驗學系博士後研究員

經歷:

台大醫學院基因體中心博士後研究員

台大醫學院微生物學科博士後研究員

台大醫學院微生物學科專案計畫助理教授

著作:

1. Wu TR, Lin CS, Chang CJ, Lin TL, Martel J, Ko YF, Ojcius DM, Lu CC, Young JD, Lai HC. (2019) Gut commensal *Parabacteroides goldsteinii* plays a predominant role in the anti-obesity effects of polysaccharides isolated from *Hirsutella sinensis*. Gut. 68(2):248-262.
 2. Tsai YL, Lin TL, Chang CJ, Wu TR, Lai WF, Lu CC, Lai HC. (2019) Probiotics, prebiotics and amelioration of diseases. J Biomed Sci. 4;26(1):3.
 3. Chang CJ, Lin TL, Tsai YL, Wu TR, Lai WF, Lu CC, Lai HC. (2019) Next generation probiotics in disease amelioration. J Food Drug Anal. 27(3):615-622.
 4. Lin TL, Shu CC, Lai WF, Tzeng CM, Lai HC, and Lu CC. (2019) Investiture of next generation probiotics on amelioration of diseases – Strains do matter. Medicine in Microecology. 1-2, 100002.
 5. Lin TL, Shu CC, Chen YM, Lu JJ, Wu TS, Lai WF, Tzeng CM, Lai HC, Lu CC. (2020) Like Cures Like: Pharmacological Activity of Anti-Inflammatory Lipopolysaccharides From Gut Microbiome. Front Pharmacol. 30;11:554.
 6. Lin TL, Lu CC, Lai WF, Wu TS, Lu JJ, Chen YM, Tzeng CM, Liu HT, Wei H, Lai HC. (2020) Role of gut microbiota in identification of novel TCM-derived active metabolites. Protein & Cell. (accepted).
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Naohisa Wada



Education

Ph.D. Nihon University, JAPAN 2017
M.S. Nihon University, JAPAN 2014

Current Positions

Postdoctoral Scholar, Biodiversity Research Center, Academia Sinica (Aug. 2017~)

Professional Experience

Postdoctoral Scholar, Faculty of Agriculture, University of Miyazaki (Apr. – July 2017)

Awards

Best publication awards, 2018, The Japan Coral Reef Society

Research Interests

- Bacterial localization and function in marine organisms

Main publications

Wada N, Yuasa H, Kajitani R, Gotoh Y, Ogura Y, Yoshimura D, Toyoda A, Tang S-L, Higashimura Y, Sweatman H, Forsman Z, Bronstein O, Eyal G, Thongtham N, Itoh T, Hayashi T, Yasuda N. (2020) A ubiquitous subcuticular bacterial symbiont of a coral predator, the crown-of-thorns starfish, in the Indo-Pacific. *Microbiome*, 8:123

Wada N, Ishimochi M, Matsui T, Pollock FJ, Tang S-L, Ainsworth TD, Willis BL, Mano N, Bourne DG (2019) Characterization of coral-associated microbial aggregates (CAMAs) within tissues of the coral *Acropora hyacinthus*. *Sci Rep* 9:1–13.

Wada N, Ohdera A, Mano N (2018) Coral Disease in Japan. In: *Coral Reef Studies of Japan*. pp 41–62

Wada N, Mano N, Yanagisawa Y, Mori T, (2017) Occurrence of coral diseases in Akajima, Okinawa, Japan in 2010 and 2011. *GALAXEA* 19 (1): 35-44

Wada N, Pollock FJ, Willis BL, Ainsworth T, Mano N, Bourne DG (2016) *In situ* visualization of bacterial populations in coral tissues: pitfalls and solutions. *PeerJ* 4:e2424

Wada N, Kawamoto T, Sato Y, Mano N (2016) A novel application of a cryosectioning technique to undecalcified coral specimens. *Mar Biol* 163:117
