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Current position & affiliation:

Staff Research Scientist
Red Sea Research Center
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Date of Birth: 25th October 1984

Education

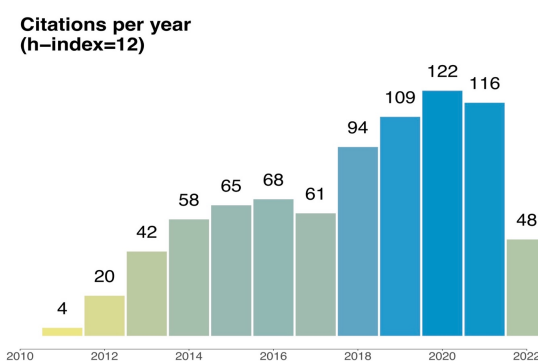
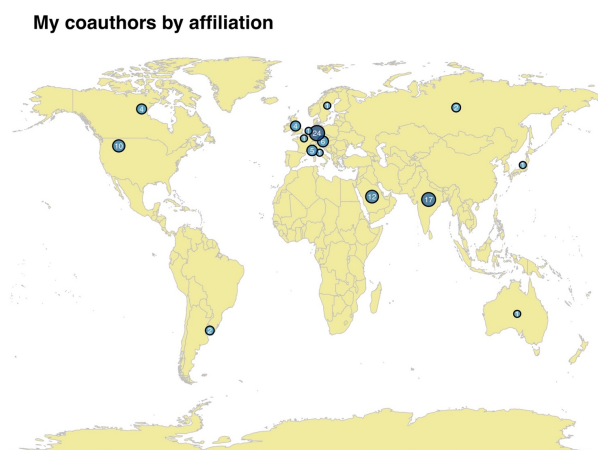
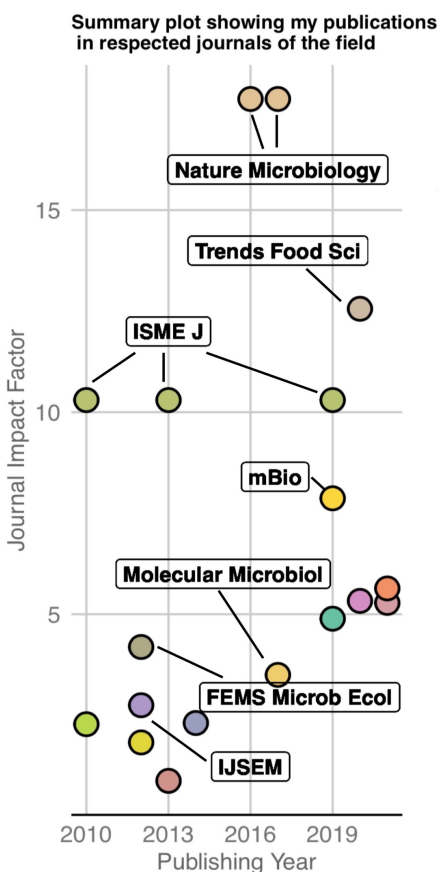
2013 Ph. D. Biotechnology- National Centre for Cell Science (NCCS), University of Pune, India

2005-2007 M. Sc. Biotechnology- Cochin University of Science & Technology, India (First class with distinction)

2002-2005 B. Sc. Biotechnology- Periyar University, India (First class)

1989-2002 Indian School Salalah, Sultanate of Oman

Publications Graphical Overview



Publications List ( <https://orcid.org/0000-0003-1462-7413>)

Barreto, M.M., Ziegler, M., Venn, A., Tambutte, E., Zoccola, D., Tambutte, S., Allemand, D., **Antony, C.P.**, Voolstra, C.R., Aranda, M. (2021) Effects of ocean acidification on resident and active microbial communities of *Stylophora pistillata*. **Frontiers Microbiol** 12: 707674

Hala, S., **Antony, C.P.**, Momin, A.A., Alshehri, M., Ben-Rached, F., Al-Ahmadi, G., Zakri, S., Baadhaim, M., Alsaedi, A., Thaqafi, O.A.A., Arold, S.T., Al-Amri, A., Pain, A. (2021) Co-occurrence of *mcr-1* and *mcr-8* genes in multi-drug-resistant *Klebsiella pneumoniae* from a 2015 clinical isolate. **Int J Antimicrob Agents** 57: 106303

Singh, B., Mal, G., Sharma, D., Sharma, R., **Antony, C.P.**, Kalra, R.S. (2020) Gastrointestinal biotransformation of phytochemicals: Towards futuristic dietary therapeutics and functional foods. **Trends Food Sci & Technol** 106: 64-77

Hala, S. †, **Antony, C.P.** †, Guan, Q., Alshehri, M., Alsaedi, A., Alsharief, A., Al-Amri, A., Pain, A. (2020) Crohn's disease patient infected with multiple co-occurring nontuberculous mycobacteria. **Inflamm Bowel Dis** e65–e67 (†Equal first authorship)

Hala, S., **Antony, C.P.**, Alshehri, M., Althaqafi, A.O., Alsaedi, A., Mufti, A., Kaaki, M., Alhaj-Hussein, B.T., Zowawi, H.M., Al-Amri, A., Pain, A. (2019) First report of *Klebsiella quasipneumoniae* harboring blaKPC-2 in Saudi Arabia. **Antimicrob Resist & Infect Cont** 8: 203

Rubin-Blum, M., **Antony, C.P.**, Sayavedra, L., Martinez-Perez, L., Birgel, D., Peckmann, J., Wu, Y-C, Cardenas, P., MacDonald, I., Marcon, Y., Sahling, H., Hentschel, U., Dubilier, N. (2019) Fueled by methane: Deep-sea sponges from asphalt seeps gain their nutrition from methane-oxidizing symbionts. **ISME J** 13: 1209-1225.

Seah, B.K.B., **Antony, C.P.**, Huettel, B., Zarzycki, J., von Borzyskowski, L.S., Erb, T., Liebeke, M., Dubilier, N., Gruber-Vodicka, H.R. (2019) Sulfur-oxidizing symbionts of Kentrophoros lack canonical genes for autotrophic CO₂ fixation. **mBio** 10: e01112-19.

Rubin-Blum, M., **Antony, C.P.**, Borowski, C., Sayavedra, L., Pape, T., Sahling, H., Bohrmann, G., Dubilier, N. (2017) Short-chain alkanes fuel the metabolism of mussel and sponge *Cycloclasticus* symbionts from deep-sea gas and oil seeps. **Nature Microbiol** 2: 17093.

Petersen, J.M., Kemper, A., Gruber-Vodicka, Cardini, U.H., Van der Geest, M., Bulgheresi, S., Mussmann, M., Seah, B.K., **Antony, C.P.**, Herbold, C., Belitz, A., Weber, M. (2016) Chemosynthetic sulphur-oxidizing symbionts of marine invertebrate animals are capable of nitrogen fixation. **Nature Microbiol** 2: 16195.

Tavormina, P.L., Kellermann, M.Y., **Antony, C.P.**, Tocheva, E., Dalleska, N., Chen, S., Magyar, P., Valentine, D.L., Hinrichs, K-U., Jensen, G., Dubilier, N., Orphan, V.J. (2017) Starvation and recovery in the deep-sea methanotroph *Methyloprofundus sedimenti*. **Mol Microbiol** 103: 242-252.

Antony, C.P.[†], Shimpi, G.G.[†], Cockell, C.S., Patole, M.S., Shouche, Y.S. (2014) Molecular characterization of prokaryotic diversity associated with Lonar crater basalts. *Geomicrobiol J* 31: 519-528. (†Equal first authorship)

Antony, C.P., Kumaresan, D., Hunger, S., Drake, H.L., Murrell, J.C., Shouche, Y.S. (2013) Microbiology of Lonar Lake and other soda lakes. *ISME J* 7: 468-476.

Shetty, S.[†], Marathe, N.[†], Munot, H.[†], **Antony, C.P.**[†], Dhotre, D.P., Murrell, J.C., Shouche, Y.S. (2013) Draft genome sequence of *Methylophaga lonarensis* MPL, a haloalkaliphilic (nonmethane-utilizing) methylotroph. *Genome Ann* 1(3): e202-13. (†Equal first authorship)

Antony, C.P., Murrell, J.C., Shouche, Y.S. (2012) Molecular diversity of methanogens and identification of *Methanolobus* sp. as active methylotrophic *Archaea* in Lonar crater lake sediments. *FEMS Microbiol Ecol* 81: 43-51.

Antony, C.P.[†], Doronina, N.V.[†], Boden, R., Trotsenko, Y.A., Shouche, Y.S., Murrell, J.C. (2012) *Methylophaga lonarensis* sp. nov., a moderately haloalkaliphilic methylotroph isolated from the soda lake sediments of a meteorite impact crater. *Int J Syst Evol Microbiol* 62: 1613-1618. (†Equal first authorship)

Antony, C.P., Cockell, C.S., Shouche, Y.S. (2012) Life in (and on) the rocks. *J Biosci* 37: 1-9.

Antony, C.P., Kumaresan, D., Ferrando, L., Boden, R., Moussard, H., Scavino, A.F., Shouche, Y.S., Murrell, J.C. (2010) Active methylotrophs in the sediments of Lonar Lake, a saline and alkaline ecosystem formed by meteor impact. *ISME J* 4: 1470-1480.

Surakasi, V.P.[†], **Antony, C.P.**[†], Sharma, S., Patole, M.S., Shouche, Y.S. (2010) Temporal bacterial diversity and detection of putative methanotrophs in surface mats of Lonar crater lake. *J Basic Microbiol* 50: 465-474. (†Equal first authorship)

Honors, Awards & Achievements

- ISME Early-Mid Career Ambassadorship (2019-2022)
- NASA Postdoctoral Program (NPP) Reviewer (2017-present)
- Max Planck Society (MPG) Postdoctoral Fellowship, MPIMM (2015-2016)
- Alexander von Humboldt Postdoctoral Fellowship, Humboldt Foundation (2013-2015)
- Visiting Researcher, California Institute of Technology (CALTECH), July, 2015
- Max Planck Society (MPG) Visiting Research Fellowship, MPIMM (2013)
- Junior & Senior Research Fellowships, Indian Council of Medical Research (ICMR), Government of India (2008, 2010)
- UKIERI Research Fellowship, British Council (during visits to the UK between 2008-2010)
- Visiting Research Fellowship, National Centre for Biological Sciences-Tata Institute for

Fundamental Research (2007)

- 7th rank holder in National-level Post Graduate Entrance Examination, Cochin University of Science & Technology (2005)
- 'Best Personality of the College' Award (during B.Sc.), Muthayammal College of Arts & Science (2002-2005)
- Academic Topper Award (during B. Sc.), Muthayammal College of Arts & Science (2002-2004)
- High school subject topper awards in Biology & English, Indian School Salalah (2002)

Research Experience

Staff Research Scientist, Red Sea Research Center, BESE Division, KAUST, Thuwal, Saudi Arabia (2019-present)

Postdoctoral Research, Pathogen Genomics Laboratory, BESE Division, KAUST, Thuwal, Saudi Arabia (2017-2018)

Project: Diagnostic meta'omics' and use of 'omics' approaches for pathogen discovery

Supervisor: Prof. Dr. Arnab Pain

Postdoctoral Research, Department of Symbiosis, Max Planck Institute for Marine Microbiology, Bremen, Germany (2013-2016)

Project: 'Omics' analyses of endosymbionts of invertebrates at hydrocarbon seeps and hydrothermal vents

Supervisor: Prof. Dr. Nicole Dubilier

Ph.D. Research, National Centre for Cell Science (NCCS), Pune, India & University of Warwick, Coventry, UK (2008-2013)

Project: Methanotrophy and associated microflora in Lonar Lake, a meteor impact crater

Supervisor: Dr. Milind S. Patole; *UKIERI collaborator/co-PI:* Prof. Dr. J. Colin Murrell

Visiting Researcher Scheme, National Centre for Biological Sciences (NCBS), Bangalore, India (2007)

Project: Understanding the neural correlates of olfactory behavior in *Drosophila*

Supervisor: Prof. Dr. Obaid Siddiqi, FRS

M.Sc. Research, National Institute for Cholera & Enteric Diseases (NICED), Kolkata, India (2006-2007)

Project: Characterization of antimicrobial resistance genes among non-typhoidal *Salmonella* strains

Supervisor: Dr. T. Ramamurthy

B.Sc. Research, Muthayammal College of Arts & Sciences, Rasipuram, India (2005)

Project: Analysis of *Agrobacterium* biodiversity in South India

Supervisor: Multiple faculties at college

Posters at Conferences

Antony, C.P., Gruber-Vodicka, H., Sayavedra, L., Dubilier, N. (2015). Insights into methanotrophic and thiotrophic symbiont genomes of deep-sea mussels and snails. Gordon Research Conference (GRC), Applied & Environmental Microbiology, South Hadley, MA.

Antony, C.P., Hunger, S., Kumaresan, D., Drake, H.L., Murrell, J.C., Shouche Y.S. (2009) Molecular identification of putative methylotrophs in Lonar crater lake. 50th Association of Microbiologists of India (AMI) Conference, Pune.

Personal profile

Gender: Male

Nationality: Indian

Marital status: Married

Languages known: English, Malayalam, Hindi, Tamil (only speak), Arabic & German(basic)

References

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