

# Publications for Theerthankar Das Ashish Kumar

## 2017

Ashish Kumar, T., Simone, M., Ibugo, A., Witting, P., Manefield, M., Manos, J. (2017). Glutathione Enhances Antibiotic Efficiency and Effectiveness of DNase I in Disrupting *Pseudomonas aeruginosa* Biofilms While Also Inhibiting Pyocyanin Activity, Thus Facilitating Restoration of Cell Enzymatic Activity, Confluence and Viability. *Frontiers in Microbiology*, 8, 1-18. <a href="http://dx.doi.org/10.3389/fmicb.2017.02429">[More Information]</a>

## 2016

Ashish Kumar, T., Ibugo, A., Klare, W., Manefield, M. (2016). Role of pyocyanin and extracellular DNA in facilitating *Pseudomonas aeruginosa* biofilm formation. In Dharumadurai Dhanasekaran and Nooruddin Thajuddin (Eds.), *Microbial Biofilms - Importance and Applications*, (pp. 23-42). Rijeka: InTech Publishers. <a href="http://dx.doi.org/10.5772/63497">[More Information]</a>

## 2014

Das, T., Sehar, S., Koop, L., Wong, Y., Ahmed, S., Siddiqui, K., Manefield, M. (2014). Influence of calcium in extracellular DNA mediated bacterial aggregation and biofilm formation. *PLoS One*, 9(3), 1-11. <a href="http://dx.doi.org/10.1371/journal.pone.0091935">[More Information]</a>

Younis, A., Chu, D., Li, C., Das, T., Sehar, S., Manefield, M., Li, S. (2014). Interface Thermodynamic State-induced High-performance memristors. *Langmuir*, 30(4), 1183-1189. <a href="http://dx.doi.org/10.1021/la404389b">[More Information]</a>

Hazrin-Chong, N., Marjo, C., Das, T., Rich, A., Manefield, M. (2014). Surface analysis reveals biogenic oxidation of sub-bituminous coal by *Pseudomonas fluorescens*. *Applied Microbiology and Biotechnology*, 98(14), 6443-6452. <a href="http://dx.doi.org/10.1007/s00253-014-5832-2">[More Information]</a>

## 2013

Swartjes, J., Das, T., Sharifi, S., Subbiahdoss, G., Sharma, P., Krom, B., Busscher, H., van der Mei, H. (2013). A functional DNase i coating to prevent adhesion of bacteria and the formation of biofilm. *Advanced Functional Materials*, 23(22), 2843-2849. <a href="http://dx.doi.org/10.1002/adfm.201202927">[More Information]</a>

Das, T., Manefield, M. (2013). Phenazine production enhances extracellular DNA release via hydrogen peroxide generation in *Pseudomonas aeruginosa*. *Communicative and Integrative Biology*, 6(3), 1-4. <a href="http://dx.doi.org/10.4161/cib.23570">[More Information]</a>

Das, T., Kutty, S., Kumar, N., Manefield, M. (2013). Pyocyanin Facilitates Extracellular DNA Binding to *Pseudomonas aeruginosa* Influencing Cell Surface Properties and Aggregation. *PLoS One*, 8(3), 1-11. <a href="http://dx.doi.org/10.1371/journal.pone.0058299">[More Information]</a>

Das, T., Sehar, S., Manefield, M. (2013). The roles of extracellular DNA in the structural integrity of extracellular polymeric substance and bacterial biofilm development. *Environmental Microbiology Reports*, 5(6), 778-786. <a href="http://dx.doi.org/10.1111/1758-2229.12085">[More Information]</a>

## 2012

Das, T., Manefield, M. (2012). Pyocyanin Promotes Extracellular DNA Release in *Pseudomonas aeruginosa*. *PLoS One*, 7(10), 1-9. <a href="http://dx.doi.org/10.1371/journal.pone.0046718">[More Information]</a>

## 2011

Das, T., Krom, B., van der Mei, H., Busscher, H., Sharma, P. (2011). DNA-mediated bacterial aggregation is dictated by acid-base interactions. *Soft Matter*, 7(6), 2927-2935. <a href="http://dx.doi.org/10.1039/c0sm01142h">[More Information]</a>

Das, T., Sharma, P., Krom, B., van der Mei, H., Busscher, H. (2011). Role of eDNA on the Adhesion Forces between *Streptococcus mutans* and Substratum Surfaces: Influence of Ionic Strength and Substratum Hydrophobicity. *Langmuir*, 27(16), 10113-10118. <a href="http://dx.doi.org/10.1021/la202013m">[More Information]</a>

## 2010

Das, T., Becker, T., Nair, B. (2010). Measurements on hydrophobic and hydrophilic surfaces using a porous gamma alumina nanoparticle aggregate mounted on Atomic Force Microscopy cantilevers. *Thin Solid Films*, 518(10), 2769-2774. <a href="http://dx.doi.org/10.1016/j.tsf.2009.09.050">[More Information]</a>

Das, T., Sharma, P., Busscher, H., van der Mei, H., Krom, B. (2010). Role of extracellular DNA in initial bacterial adhesion and surface aggregation. *Applied and Environmental Microbiology*, 76(10), 3405-3408. <a href="http://dx.doi.org/10.1128/AEM.03119-09">[More Information]</a>