References

Abd-El-Khair, H., Abdel-Gaied, T. G., Mikhail, M. S., Abdel-Alim, A. I., & El-Nasr, H. I. S. (2021). Biological control of *Pectobacterium carotovorum* subsp. *carotovorum*, the causal agent of bacterial soft rot in vegetables, in vitro and in vivo tests. *Bulletin of the National Research Centre*, *45*(1). https://doi.org/10.1186/S42269-021-00491-4

Agrios, G. N. (2005). Plant diseases caused by prokaryotes: bacteria and mollicutes. *Plant Pathology*, 615–703. https://doi.org/10.1016/b978-0-08-047378-9.50018-x

Al-Defiery, M. E. J., & Reddy, G. (2018). Lag phase and biomass determination of *Rhodococcus pyridinivorans* GM3 for degradation of phenol. In *Journal of Physics: Conference Series* (Vol. 1003, No. 1, p. 012007). IOP Publishing.

Andresen, L., Sala, E., Kõiv, V., & Mäe, A. (2010). A role for the Rcs phosphorelay in regulating expression of plant cell wall degrading enzymes in *Pectobacterium carotovorum* subsp. *carotovorum. Microbiology*, *156*(5), 1323–1334. https://doi.org/10.1099/MIC.0.033936-0

Asfour, H. Z. (2018). Anti-quorum sensing natural compounds. *Journal of microscopy and ultrastructure*, *6*(1), 1.

Ayuso-Calles, M., García-Estévez, I., Jiménez-Gómez, A., Flores-Félix, J. D., Escribano-Bailón, M. T., & Rivas, R. (2020). *Rhizobium laguerreae* improves productivity and phenolic compound content of lettuce (*Lactuca sativa* L.) under saline stress conditions. *Foods*, *9*(9), 1166.

Azaiez, S., ben Slimene, I., Karkouch, I., Essid, R., Jallouli, S., Djebali, N., Elkahoui, S., Limam, F., & Tabbene, O. (2018). Biological control of the soft rot bacterium *Pectobacterium carotovorum* by *Bacillus amyloliquefaciens* strain Ar10 producing glycolipid-like compounds. *Microbiological Research*, *217*, 23–33. https://doi.org/10.1016/J.MICRES.2018.08.013

Balagurunathan, R., Radhakrishnan, M., Shanmugasundaram, T., Gopikrishnan, V., & Jerrine, J. (2020). Sample Collection, Isolation, and Diversity of Actinomycetota. In *Protocols in Actinomycetotal Research* (pp. 1–24). Springer US. https://doi.org/10.1007/978-1-0716-0728-2_1

Baltenneck, J., Reverchon, S., & Hommais, F. (2021). Quorum sensing regulation in phytopathogenic bacteria. *Microorganisms*, *9*(2), 239. https://doi.org/10.3390/microorganisms9020239

Barnard, A. M. L., & Salmond, G. P. C. (2007). Quorum sensing in *Erwinia* species. *Analytical and Bioanalytical Chemistry*, *387*(2), 415–423. https://doi.org/10.1007/S00216-006-0701-1

Bell, K. S., Kuyukina, M. S., Heidbrink, S., Philp, J. C., Aw, D. W. J., Ivshina, I. B., & Christofi, N. (1999). Identification and environmental detection of *Rhodococcus* species by 16S rDNA-targeted PCR. *Journal of Applied Microbiology*, *87*(4), 472–480. https://doi.org/10.1046/J.1365-2672.1999.00824.X

Bhat, K. A., Masood, S. D., Bhat, N. A., Bhat, M. A., Razvi, S. M., Mir, M. R., ... & Habib, M. (2010). Current status of post harvest soft rot in vegetables: a review. *Asian Journal of Plant Sciences*, *9*(4), 200-208.

Biancalani, C., Cerboneschi, M., Tadini-Buoninsegni, F., Campo, M., Scardigli, A., Romani, A., & Tegli, S. (2016). Global Analysis of Type Three Secretion System and Quorum Sensing Inhibition of *Pseudomonas savastanoi* by Polyphenols Extracts from Vegetable Residues. *PLOS ONE*, *11*(9), e0163357. https://doi.org/10.1371/JOURNAL.PONE.0163357

Blasco, R., Martínez-Luque, M., Madrid, M. P., Castillo, F., & Moreno-Vivián, C. (2001). *Rhodococcus* sp. RB1 grows in the presence of high nitrate and nitrite concentrations and assimilates nitrate in moderately saline environments. *Archives of microbiology*, *175*(6), 435-440.

Blosser-Middleton, R. S., & Gray, K. M. (2001). Multiple N-acyl homoserine lactone signals of *Rhizobium leguminosarum* are synthesized in a distinct temporal pattern. *Journal of Bacteriology*, *183*(23), 6771–6777. https://doi.org/10.1128/JB.183.23.6771-6777.2001

Bogs, J., Bruchmüller, I., Erbar, C., & Gelder, K. (1998). Colonization of host plants by the fire blight pathogen *Erwinia amylovora* marked with genes for bioluminescence and fluorescence. *Phytopathology*, *88*(5), 416–421. https://doi.org/10.1094/PHYTO.1998.88.5.416

Bondí, R., Longo, F., Messina, M., D'Angelo, F., Visca, P., Leoni, L., & Rampioni, G. (2017). The multi-output incoherent feedforward loop constituted by the transcriptional regulators LasR and RsaL confers robustness to a subset of quorum sensing genes in *Pseudomonas aeruginosa*. *Molecular BioSystems*, *13*(6), 1080–1089. https://doi.org/10.1039/C7MB00040E

Borges, A., Serra, S., Abreu, A. C., Saavedra, M. J., Salgado, A., & Simões, M. (2014). Evaluation of the effects of selected phytochemicals on quorum sensing inhibition and *in vitro* cytotoxicity. *Taylor & Francis*, *30*(2), 183–195. https://doi.org/10.1080/08927014.2013.852542

Borisova, R. B. (2011). Isolation of a *Rhodococcus* Soil Bacterium that Produces a Strong Antibacterial Compound . 86. http://dc.etsu.edu/etd/1388

Bowden, S. D., Hale, N., Chung, J. C. S., Hodgkinson, J. T., Spring, D. R., & Welch, M. (2013). Surface swarming motility by *Pectobacterium atrosepticum* is a latent phenotype that

requires O antigen and is regulated by quorum sensing. *Microbiology (United Kingdom)*, *159*(PART11), 2375–2385. https://doi.org/10.1099/MIC.0.070748-0/CITE/REFWORKS

Boyer, M., & Wisniewski-Dyé, F. (2009). Cell–cell signalling in bacteria: not simply a matter of quorum. *FEMS microbiology ecology*, *70*(1), 1-19.

Burke, A. K., Duong, D. A., Jensen, R. v., & Stevens, A. M. (2015). Analyzing the Transcriptomes of Two Quorum-Sensing Controlled Transcription Factors, RcsA and LrhA, Important for *Pantoea stewartii* Virulence. *PLOS ONE*, *10*(12), e0145358. https://doi.org/10.1371/JOURNAL.PONE.0145358

Burt, S. A., Ojo-Fakunle, V. T. A., Woertman, J., & Veldhuizen, E. J. A. (2014). The natural antimicrobial carvacrol inhibits quorum sensing in *Chromobacterium violaceum* and reduces bacterial biofilm formation at sub-lethal concentrations. *PLoS ONE*, *9*(4). https://doi.org/10.1371/JOURNAL.PONE.0093414

Busse, H. J. (2016). Review of the taxonomy of the genus *Arthrobacter*, emendation of the genus arthrobacter sensu lato, proposal to reclassify selected species of the genus Arthrobacter in the novel genera *Glutamicibacter* gen. Nov., *Paeniglutamicibacter* gen. nov., Pseudogluta. *International Journal of Systematic and Evolutionary Microbiology*, *66*(1), 9–37. https://doi.org/10.1099/IJSEM.0.000702

Busse, H.J., & Wieser, M. (2018). *G. lutamicibacter* . *Bergey's Manual of Systematics of Archaea and Bacteria*, 1–12. https://doi.org/10.1002/9781118960608.GBM01431

Bzdrenga, J., Daudé, D., Remy, B., Jacquet, P., Plener, L., Elias, M., & Chabriere, E. (2017). Biotechnological applications of quorum quenching enzymes. *Chemico-biological interactions*, *267*, 104-115.

Cai, Z., Yuan, Z. H., Zhang, H., Pan, Y., Wu, Y., Tian, X. Q., Wang, F. F., Wang, L., & Qian, W. (2017). Fatty acid DSF binds and allosterically activates histidine kinase RpfC of phytopathogenic bacterium *Xanthomonas campestris* pv. *campestris* to regulate quorum-sensing and virulence. *PLoS Pathogens*, *13*(4). https://doi.org/10.1371/JOURNAL.PPAT.1006304

Chan, K. G., Atkinson, S., Mathee, K., Sam, C. K., Chhabra, S. R., Cmara, M., Koh, C. L., & Williams, P. (2011). Characterization of N-acylhomoserine lactone-degrading bacteria associated with the *Zingiber officinale* (ginger) rhizosphere: Co-existence of quorum quenching and quorum sensing in *Acinetobacter* and *Burkholderia*. *BMC Microbiology*, *11*. https://doi.org/10.1186/1471-2180-11-51

Chang, C. Y., Krishnan, T., Wang, H., Chen, Y., Yin, W. F., Chong, Y. M., Tan, L. Y., Chong, T. M., & Chan, K. G. (2014). Non-antibiotic quorum sensing inhibitors acting against N-

acyl homoserine lactone synthase as druggable target. *Scientific Reports 2014 4:1*, *4*(1), 1–8. https://doi.org/10.1038/srep07245

Chen, F., Gao, Y., Chen, X., Yu, Z., & Li, X. (2013). Quorum Quenching Enzymes and Their Application in Degrading Signal Molecules to Block Quorum Sensing-Dependent Infection. *International Journal of Molecular Sciences 2013, Vol. 14, Pages 17477-17500*, *14*(9), 17477–17500. https://doi.org/10.3390/IJMS140917477

Chen, R., Barphagha, I. K., & Ham, J. H. (2015). Identification of potential genetic components involved in the deviant quorum-sensing signaling pathways of *Burkholderia glumae* through a functional genomics approach. *Frontiers in Cellular and Infection Microbiology*, *5*(MAR), 22. https://doi.org/10.3389/FCIMB.2015.00022/BIBTEX

Chourasia, M. K., & Goswami, T. K. (2007a). Simulation of effect of stack dimensions and stacking arrangement on cool-down characteristics of potato in a cold store by computational fluid dynamics. *Biosystems Engineering*, *96*(4), 503-515.

Chourasia, M. K., & Goswami, T. K. (2007b). CFD simulation of effects of operating parameters and product on heat transfer and moisture loss in the stack of bagged potatoes. *Journal of Food Engineering*, *80*(3), 947-960.

Chourasia, M. K., & Goswami, T. K. (2007c). Steady state CFD modeling of airflow, heat transfer and moisture loss in a commercial potato cold store. *International Journal of Refrigeration*, *30*(4), 672-689.

Cirou, A., Diallo, S., Kurt, C., Latour, X., & Faure, D. (2007). Growth promotion of quorum-quenching bacteria in the rhizosphere of *Solanum tuberosum*. *Environmental Microbiology*, *9*(6), 1511–1522. https://doi.org/10.1111/J.1462-2920.2007.01270.X

Cirou, A., Mondy, S., An, S., Charrier, A., Sarrazin, A., Thoison, O., ... & Faure, D. (2012). Efficient biostimulation of native and introduced quorum-quenching *Rhodococcus erythropolis* populations is revealed by a combination of analytical chemistry, microbiology, and pyrosequencing. *Applied and environmental microbiology*, *78*(2), 481-492.

Cirou, A., Raffoux, A., Diallo, S., Latour, X., Dessaux, Y., & Faure, D. (2011). Gamma-caprolactone stimulates growth of quorum-quenching *Rhodococcus* populations in a large-scale hydroponic system for culturing *Solanum tuberosum*. *Research in Microbiology*, *162*(9), 945–950. https://doi.org/10.1016/J.RESMIC.2011.01.010

Crépin, A., Barbey, C., Cirou, A., Tannières, M., Orange, N., Feuilloley, M., Dessaux, Y., Burini, J.-F., Faure, D., & Latour, X. (2011). Biological control of pathogen communication in the rhizosphere: A novel approach applied to potato soft rot due to *Pectobacterium atrosepticum*. *Plant and Soil 2011*, *358*(1), 27–37. https://doi.org/10.1007/S11104-011-1030-5

Cui, Y., Chatterjee, A., Hasegawa, H., Dixit, V., Leigh, N., & Chatterjee, A. K. (2005). ExpR, a LuxR homolog of *Erwinia carotovora* subsp. *carotovora*, activates transcription of rsmA, which specifies a global regulatory RNA-binding protein. *Journal of Bacteriology*, *187*(14), 4792–4803. https://doi.org/10.1128/JB.187.14.4792-4803.2005

Cui, Y., Chatterjee, A., Liu, Y., Dumenyo, C. K., & Chatterjee, A. K. (1995). Identification of a global repressor gene, rsmA, of *Erwinia carotovora* subsp. *carotovora* that controls extracellular enzymes, N-(3-oxohexanoyl)-L- homoserine lactone, and pathogenicity in soft-rotting *Erwinia* spp. *Journal of Bacteriology*, *177*(17), 5108–5115. https://doi.org/10.1128/JB.177.17.5108-5115.1995

Czajkowski, R., & Jafra, S. (2009). Quenching of acyl-homoserine lactone-dependent quorum sensing by enzymatic disruption of signal molecules. *Acta Biochimica Polonica*, *56*(1), 1–16. https://doi.org/10.18388/ABP.2009_2512

Czajkowski, R., Krzyzanowska, D., Karczewska, J., Atkinson, S., Przysowa, J., Lojkowska, E., Williams, P., & Jafra, S. (2011a). Inactivation of AHLs by *Ochrobactrum* sp. A44 depends on the activity of a novel class of AHL acylase. *Environmental Microbiology Reports*, *3*(1), 59–68. https://doi.org/10.1111/J.1758-2229.2010.00188.X

Czajkowski, R., Pérombelon, M. C. M., Veen, J. A. van, & Wolf, J. M. van der. (2011b). Control of blackleg and tuber soft rot of potato caused by *Pectobacterium* and *Dickeya* species: a review. *Plant Pathology*, *60*(6), 999–1013. https://doi.org/10.1111/J.1365-3059.2011.02470.X

Czajkowski, R., Pérombelon, M. C. M., Jafra, S., Lojkowska, E., Potrykus, M., Wolf, J. M. van der, & Sledz, W. (2015a). Detection, identification and differentiation of *Pectobacterium* and *Dickeya* species causing potato blackleg and tuber soft rot: a review. *Annals of Applied Biology*, *166*(1), 18–38. https://doi.org/10.1111/AAB.12166

Czajkowski, R., van der Wolf, J. M., Krolicka, A., Ozymko, Z., Narajczyk, M., Kaczynska, N., & Lojkowska, E. (2015b). Salicylic acid can reduce infection symptoms caused by *Dickeya solani* in tissue culture grown potato (*Solanum tuberosum* L.) plants. *European Journal of Plant Pathology*, 141(3), 545-558.

Daglia, M., Gazzani, G., & Grusak, M. (2011). Polyphenols as antimicrobial agents. *Elsevier*, *23*, 174–181. https://doi.org/10.1016/j.copbio.2011.08.007

Davidsson, P. R., Kariola, T., Niemi, O., & Tapio Palva, E. (2013). Pathogenicity of and plant immunity to soft rot pectobacteria. *Frontiers in Plant Science*, *4*(JUN). https://doi.org/10.3389/FPLS.2013.00191/FULL

Defoirdt, T., Brackman, G., & Coenye, T. (2013). Quorum sensing inhibitors: how strong is the evidence? *Trends in Microbiology*, *21*(12), 619–624. https://doi.org/10.1016/J.TIM.2013.09.006

Deryabin, D., Galadzhieva, A., Kosyan, D., & Duskaev, G. (2019). Plant-derived inhibitors of AHL-mediated quorum sensing in bacteria: Modes of action. *International Journal of Molecular Sciences*, *20*(22), 5588.

des Essarts, Y. R., Cigna, J., Quêtu-Laurent, A., Caron, A., Munier, E., Beury-Cirou, A., Hélias, V., & Faure, D. (2016). Biocontrol of the potato blackleg and soft rot diseases caused by *Dickeya dianthicola*. *Applied and Environmental Microbiology*, *82*(1), 268–278. https://doi.org/10.1128/AEM.02525-15

Dong, Y. H., Xu, J. L., Li, X. Z., & Zhang, L. H. (2000). AiiA, an enzyme that inactivates the acylhomoserine lactone quorum-sensing signal and attenuates the virulence of *Erwinia carotovora. Proceedings of the National Academy of Sciences*, *97*(7), 3526-3531.

Dong, Y. H., Zhang, X. F., Xu, J. L., & Zhang, L. H. (2004). Insecticidal *Bacillus thuringiensis* silences *Erwinia carotovora* virulence by a new form of microbial antagonism, signal interference. *Applied and environmental microbiology*, *70*(2), 954-960.

Droby, S., Wisniewski, M., Teixidó, N., Spadaro, D., & Jijakli, M. H. (2016). The science, development, and commercialization of postharvest biocontrol products. *Postharvest Biology and Technology*, *122*, 22-29.

Duan, Q., Zhou, M., Zhu, L., & Zhu, G. (2013). Flagella and bacterial pathogenicity. *Journal of basic microbiology*, *53*(1), 1-8.

Duarte, V., Boer, S. H. de, Ward, L. J., & Oliveira, A. M. R. de. (2004). Characterization of atypical *Erwinia carotovora* strains causing blackleg of potato in Brazil. *Journal of Applied Microbiology*, *96*(3), 535–545. https://doi.org/10.1111/J.1365-2672.2004.02173.X

Duraisamy, P., Sekar, J., Arunkumar, A. D., & Ramalingam, P. v. (2020). Kinetics of Phenol Biodegradation by Heavy Metal Tolerant Rhizobacteria *Glutamicibacter nicotianae* MSSRFPD35 From Distillery Effluent Contaminated Soils. *Frontiers in Microbiology*, *11*. https://doi.org/10.3389/FMICB.2020.01573/FULL

El-Mowafy, S. A., Abd, K. H., Galil, E., El-Messery, S. M., & Shaaban, M. I. (2014). Aspirin is an efficient inhibitor of quorum sensing, virulence and toxins in *Pseudomonas aeruginosa*. *Elsevier*, *74*, 25–32. https://doi.org/10.1016/j.micpath.2014.07.008

Faure, D., & Dessaux, Y. (2007). Quorum sensing as a target for developing control strategies for the plant pathogen *Pectobacterium*. *European Journal of Plant Pathology*, *119*(3), 353–365. https://doi.org/10.1007/S10658-007-9149-1

Faure, D., Vereecke, D., & Leveau, J. H. J. (2009). Molecular communication in the rhizosphere. *Plant and Soil*, *321*(1–2), 279–303. https://doi.org/10.1007/S11104-008-9839-2

Fetzner, S. (2015). Quorum quenching enzymes. *Journal of Biotechnology*, *201*, 2–14. https://doi.org/10.1016/J.JBIOTEC.2014.09.001

Flores-Félix, J. D., Menéndez, E., Marcos-García, M., Celador-Lera, L., & Rivas, R. (2015). Calcofluor white, an alternative to propidium iodide for plant tissues staining in studies of root colonization by fluorescent-tagged rhizobia. *Journal of Advances in Biology & Biotechnology*, 65-70.

Fuqua, W. C., Winans, S. C., & Greenberg, E. P. (1994). Quorum sensing in bacteria: The LuxR-LuxI family of cell density- responsive transcriptional regulators. *Journal of Bacteriology*, *176*(2), 269–275. https://doi.org/10.1128/JB.176.2.269-275.1994

Gao, R., Krysciak, D., Petersen, K., Utpatel, C., Knapp, A., Schmeisser, C., Daniel, R., Voget, S., Jaeger, K. E., & Streit, W. R. (2015). Genome-wide RNA sequencing analysis of quorum sensing-controlled regulons in the plant-associated *Burkholderia glumae* PG1 strain. *Applied and Environmental Microbiology*, *81*(23), 7993–8007. https://doi.org/10.1128/AEM.01043-15/SUPPL_FILE/ZAM999116736SO1.PDF

García-Lara, B., Saucedo-Mora, M. A., Roldán-Sánchez, J. A., Pérez-Eretza, B., Ramasamy, M., Lee, J., Coria-Jimenez, R., Tapia, M., Varela-Guerrero, V., & García-Contreras, R. (2015). Inhibition of quorum-sensing-dependent virulence factors and biofilm formation of clinical and environmental *Pseudomonas aeruginosa* strains by ZnO nanoparticles. *Letters in Applied Microbiology*, *61*(3), 299–305. https://doi.org/10.1111/LAM.12456

Garge, S. S., & Nerurkar, A. S. (2017). Evaluation of quorum quenching *Bacillus* spp. for their biocontrol traits against Pectobacterium carotovorum subsp. carotovorum causing soft rot. *Biocatalysis and Agricultural Biotechnology*, *9*, 48-57.

Garge, S. S., & Nerurkar, A. S. (2016). Attenuation of quorum sensing regulated virulence of *Pectobacterium carotovorum* subsp. *carotovorum* through an AHL lactonase produced by *Lysinibacillus* sp. Gs50. *PLoS ONE*, *11*(12). https://doi.org/10.1371/JOURNAL.PONE.0167344

Glare, T., Caradus, J., Gelernter, W., Jackson, T., Keyhani, N., Köhl, J., ... & Stewart, A. (2012). Have biopesticides come of age?. *Trends in biotechnology*, *30*(5), 250-258.

Gorshkov, V., Gubaev, R., Petrova, O., Daminova, A., Gogoleva, N., Ageeva, M., Parfirova, O., Prokchorchik, M., Nikolaichik, Y., & Gogolev, Y. (2018). Transcriptome profiling helps to identify potential and true molecular switches of stealth to brute force behavior in *Pectobacterium atrosepticum* during systemic colonization of tobacco plants. *European Journal of Plant Pathology*, *152*(4), 957–976. https://doi.org/10.1007/S10658-018-1496-6

Grandclément, C., Tannières, M., Moréra, S., Dessaux, Y., & Faure, D. (2016). Quorum quenching: role in nature and applied developments. *FEMS Microbiology Reviews*, *40*(1), 86–116. https://doi.org/10.1093/FEMSRE/FUV038

Gutierrez-Pacheco, M. M., Gonzalez-Aguilar, G. A., Martinez-Tellez, M. A., Lizardi-Mendoza, J., Madera-Santana, T. J., Bernal-Mercado, A. T., ... & Ayala-Zavala, J. F. (2018). Carvacrol inhibits biofilm formation and production of extracellular polymeric substances of *Pectobacterium carotovorum* subsp. *carotovorum. Food Control*, *89*, 210-218.

Hadizadeh, I., Peivastegan, B., Hannukkala, A., van der Wolf, J. M., Nissinen, R., & Pirhonen, M. (2019). Biological control of potato soft rot caused by *Dickeya solani* and the survival of bacterial antagonists under cold storage conditions. *Plant Pathology*, *68*(2), 297–311. https://doi.org/10.1111/PPA.12956

Hahn, A., Luetgehetmann, M., Landt, O., Schwarz, N. G., & Frickmann, H. (2017). Comparison of one commercial and two in-house TaqMan multiplex real-time PCR assays for detection of enteropathogenic, enterotoxigenic and enteroaggregative *Escherichia coli*. *Tropical Medicine & International Health*, *22*(11), 1371-1376.

Ham, J. H. (2013). Intercellular and intracellular signalling systems that globally control the expression of virulence genes in plant pathogenic bacteria. *Molecular Plant Pathology*, *14*(3), 308–322. https://doi.org/10.1111/MPP.12005

Helman, Y., & Chernin, L. (2015). Silencing the mob: disrupting quorum sensing as a means to fight plant disease. *Molecular plant pathology*, *16*(3), 316-329.

Hossain, M. M., Shibata, S., Aizawa, S. I., & Tsuyumu, S. (2005). Motility is an important determinant for pathogenesis of *Erwinia carotovora* subsp. *carotovora*. *Physiological and molecular plant pathology*, *66*(4), 134-143.

Huang, W., Lin, Y., Yi, S., Liu, P., Shen, J., Shao, Z., & Liu, Z. (2012). QsdH, a Novel AHL Lactonase in the RND-Type Inner Membrane of Marine *Pseudoalteromonas byunsanensis* Strain 1A01261. *PLoS ONE*, *7*(10). https://doi.org/10.1371/JOURNAL.PONE.0046587

Ihekwaba, A. E. C., Mura, I., Peck, M. W., & Barker, G. C. (2015). The pattern of growth observed for *Clostridium botulinum* type A1 strain ATCC 19397 is influenced by nutritional status and quorum sensing: a modelling perspective. *Pathogens and Disease*, *73*(9), 84. https://doi.org/10.1093/FEMSPD/FTV084

Ishii, S., Fukui, K., Yokoshima, S., Kumagai, K., Beniyama, Y., Kodama, T., Fukuyama, T., Okabe, T., Nagano, T., Kojima, H., & Yano, T. (2017). High-throughput Screening of Small Molecule Inhibitors of the Streptococcus Quorum-sensing Signal Pathway. *Scientific Reports 2017 7:1*, *7*(1), 1–10. https://doi.org/10.1038/s41598-017-03567-2

Jafra, S., Jalink, H., van der Schoor, R., & van der Wolf, J. M. (2006). *Pectobacterium carotovorum* subsp. *carotovorum* strains show diversity in production of and response to N-acyl homoserine lactones. *Journal of Phytopathology*, *154*(11–12), 729–739. https://doi.org/10.1111/J.1439-0434.2006.01185.X

Jafra, S., Przysowa, J., Czajkowski, R., Michta, A., Garbeva, P., & Van der Wolf, J. M. (2006). Detection and characterization of bacteria from the potato rhizosphere degrading N-acyl-homoserine lactone. *Canadian Journal of Microbiology*, *52*(10), 1006-1015.

Jang, M. S., Goo, E., An, J. H., Kim, J., & Hwang, I. (2014). Quorum Sensing Controls Flagellar Morphogenesis in *Burkholderia glumae*. *PLOS ONE*, *9*(1), e84831. https://doi.org/10.1371/JOURNAL.PONE.0084831

Joshi, J. R., Burdman, S., Lipsky, A., & Yedidia, I. (2015a). Effects of plant antimicrobial phenolic compounds on virulence of the genus *Pectobacterium*. *Research in microbiology*, *166*(6), 535-545.

Joshi, J. R., Burdman, S., Lipsky, A., Yariv, S., & Yedidia, I. (2015b). Plant phenolic acids affect the virulence of *Pectobacterium aroidearum* and *P. carotovorum* ssp. *brasiliense* via quorum sensing regulation. *Wiley Online Library*, *17*(4), 487–500. https://doi.org/10.1111/mpp.12295

Joshi, J. R., Khazanov, N., Senderowitz, H., Burdman, S., Lipsky, A., & Yedidia, I. (2016). Plant phenolic volatiles inhibit quorum sensing in pectobacteria and reduce their virulence by potential binding to ExpI and ExpR proteins. *Scientific reports*, *6*(1), 1-15. https://doi.org/10.1038/srep38126

Joshi, J. R., Khazanov, N., Khadka, N., Charkowski, A. O., Burdman, S., Carmi, N., ... & Senderowitz, H. (2020). Direct binding of salicylic acid to *Pectobacterium* N-acyl-homoserine lactone synthase. *ACS chemical biology*, *15*(7), 1883-1891.

Kalia, V. C. (2013). Quorum sensing inhibitors: An overview. *Biotechnology Advances*, *31*(2), 224–245. https://doi.org/10.1016/J.BIOTECHADV.2012.10.004

Kalia, V. C., & Purohit, H. J. (2011). Quenching the quorum sensing system: Potential antibacterial drug targets. *Critical Reviews in Microbiology*, *37*(2), 121–140. https://doi.org/10.3109/1040841X.2010.532479

Kit, C. (2019). CloneJET PCR Cloning Kit. *Assets.Fishersci.Com*. https://assets.fishersci.com/TFS-Assets/LSG/manuals/MAN0012707_CloneJET_PCR_Cloning_20rxn_UG.pdf

Koch, B., Liljefors, T., Persson, T., Nielsen, J., Kjelleberg, S., & Givskov, M. (2005). The LuxR receptor: The sites of interaction with quorum-sensing signals and inhibitors.

Microbiology, *151*(11), 3589–3602. https://doi.org/10.1099/MIC.0.27954-0/CITE/REFWORKS

Koul, S., & Kalia, V. C. (2017). Multiplicity of Quorum Quenching Enzymes: A Potential Mechanism to Limit Quorum Sensing Bacterial Population. *Indian Journal of Microbiology*, *57*(1), 100. https://doi.org/10.1007/S12088-016-0633-1

Kriszt, R., Krifaton, C., Szoboszlay, S., Cserháti, M., Kriszt, B., Kukolya, J., Czéh, Á., Fehér-Tóth, S., Török, L., Szoke, Z., Kovács, K. J., Barna, T., & Ferenczi, S. (2012). A New Zearalenone Biodegradation Strategy Using Non-Pathogenic *Rhodococcus pyridinivorans* K408 Strain. *PLoS ONE*, *7*(9). https://doi.org/10.1371/JOURNAL.PONE.0043608

Krzyzanowska, D. M., Potrykus, M., Golanowska, M., Polonis, K., Gwizdek-Wisniewska, A., Lojkowska, E., & Jafra, S. (2012). Rhizosphere bacteria as potential biocontrol agents against soft rot caused by various *Pectobacterium* and *Dickeya* spp. strains. *Journal of Plant Pathology*, 367-378.

Kundu, D., Hazra, C., Chatterjee, A., Chaudhari, A., & Mishra, S. (2014). Extracellular biosynthesis of zinc oxide nanoparticles using *Rhodococcus pyridinivorans* NT2: multifunctional textile finishing, biosafety evaluation and in vitro drug delivery in colon carcinoma. *Journal of photochemistry and photobiology B: Biology*, *140*, 194-204.

Lang, J., & Faure, D. (2014). Functions and regulation of quorum-sensing in *Agrobacterium tumefaciens. Frontiers in Plant Science*, *5*(JAN), 14. https://doi.org/10.3389/FPLS.2014.00014/BIBTEX

Langdahl, B. R., Bisp, P., & Ingvorsen, K. (1996). Nitrile hydrolysis by *Rhodococcus erythropolis* BL1, an acetonitrile-tolerant strain isolated from a marine sediment. *Microbiology*, *142*(1), 145–154. https://doi.org/10.1099/13500872-142-1-145

Latour, X., Barbey, C., Chane, A., Groboillot, A., & Burini, J. F. (2013). *Rhodococcus erythropolis* and Its γ-Lactone Catabolic Pathway: An Unusual Biocontrol System That Disrupts Pathogen Quorum Sensing Communication. *Agronomy 2013, Vol. 3, Pages 816-838*, *3*(4), 816–838. https://doi.org/10.3390/AGRONOMY3040816

Leadbetter, J. R., & Greenberg, E. P. (2000). Metabolism of acyl-homoserine lactone quorum-sensing signals by *Variovorax paradoxus*. *Journal of Bacteriology*, *182*(24), 6921–6926. https://doi.org/10.1128/JB.182.24.6921-6926.2000

Lee, D. H., Lim, J. A., Lee, J., Roh, E., Jung, K., Choi, M., Oh, C., Ryu, S., Yun, J., & Heu, S. (2013). Characterization of genes required for the pathogenicity of *Pectobacterium carotovorum* subsp. *carotovorum* Pcc21 in Chinese cabbage. *Microbiology*, *159*(Pt 7), 1487. https://doi.org/10.1099/MIC.0.067280-0

Lépine, F., & Déziel, E. (2011). Liquid chromatography/mass spectrometry for the detection and quantification of N-acyl-L-homoserine lactones and 4-hydroxy-2-alkylquinolines. In *Quorum sensing* (pp. 61-69). Humana Press.

Liang, X., Yu, X., Pan, X., Wu, J., Duan, Y., Wang, J., & Zhou, M. (2018). A thiadiazole reduces the virulence of *Xanthomonas oryzae* pv. *oryzae* by inhibiting the histidine utilization pathway and quorum sensing. *Molecular Plant Pathology*, *19*(1), 116–128. https://doi.org/10.1111/MPP.12503

Liu, H., Coulthurst, S. J., Pritchard, L., Hedley, P. E., Ravensdale, M., Humphris, S., Burr, T., Takle, G., Brurberg, M. B., Birch, P. R. J., Salmond, G. P. C., & Toth, I. K. (2008). Quorum sensing coordinates brute force and stealth modes of infection in the plant pathogen *Pectobacterium atrosepticum*. *PLoS Pathogens*, *4*(6). https://doi.org/10.1371/JOURNAL.PPAT.1000093

Loh, J., Pierson, E. A., Pierson, L. S., Stacey, G., & Chatterjee, A. (2002). Quorum sensing in plant-associated bacteria. *Current Opinion in Plant Biology*, *5*(4), 285–290. https://doi.org/10.1016/S1369-5266(02)00274-1

Lu, S. (2003). Rapid screening of recombinant plasmids. *Methods in Molecular Biology (Clifton, N.J.)*, *235*, 169–174. https://doi.org/10.1385/1-59259-409-3:169

Ma, X., Schloop, A., Swingle, B., & Perry, K. L. (2018). *Pectobacterium* and *Dickeya* Responsible for Potato Blackleg Disease in New York State in 2016. *Https://Doi.Org/10.1094/PDIS-10-17-1595-RE*, *102*(9), 1834–1840. https://doi.org/10.1094/PDIS-10-17-1595-RE

MacFaddin, J. (2000). Biochemical tests for identification of medical bacteria. http://vlib.kmu.ac.ir/kmu/handle/kmu/89211

Maisuria, V. B., Los Santos, Y. L. de, Tufenkji, N., & Déziel, E. (2016). Cranberry-derived proanthocyanidins impair virulence and inhibit quorum sensing of *Pseudomonas aeruginosa*. *Scientific Reports 2016 6:1*, *6*(1), 1–12. https://doi.org/10.1038/srep30169

Maisuria, V. B., & Nerurkar, A. S. (2012). Biochemical properties and thermal behavior of pectate lyase produced by *Pectobacterium carotovorum* subsp. *carotovorum* BR1 with industrial potentials. *Biochemical Engineering Journal*, *63*, 22–30. https://doi.org/10.1016/J.BEJ.2012.01.007

Maisuria, V. B., & Nerurkar, A. S. (2013). Characterization and differentiation of soft rot causing *Pectobacterium carotovorum* of Indian origin. *European Journal of Plant Pathology*, *136*(1), 87–102. https://doi.org/10.1007/S10658-012-0140-0/FIGURES/5

Maisuria, V. B., & Nerurkar, A. S. (2015). Interference of Quorum Sensing by *Delftia* sp. VM4 Depends on the Activity of a Novel N-Acylhomoserine Lactone-Acylase. *PLOS ONE*, *10*(9), e0138034. https://doi.org/10.1371/JOURNAL.PONE.0138034

Maisuria, V. B., Patel, V. A., & Nerurkar, A. S. (2010). Biochemical and Thermal Stabilization Parameters of Polygalacturonase from *Erwinia carotovora* subsp. *carotovora* BR1. *Journal of Microbiology and Biotechnology*, *20*(7), 1077–1085. https://doi.org/10.4014/JMB.0908.08008

Mansfield, J., Genin, S., Magori, S., Citovsky, V., Sriariyanum, M., Ronald, P., Dow, M., Verdier, V., Beer, S. v., Machado, M. A., Toth, I., Salmond, G., & Foster, G. D. (2012). Top 10 plant pathogenic bacteria in molecular plant pathology. *Molecular Plant Pathology*, *13*(6), 614–629. https://doi.org/10.1111/J.1364-3703.2012.00804.X

Marian, M., & Shimizu, M. (2019). Improving performance of microbial biocontrol agents against plant diseases. *Journal of General Plant Pathology 2019 85:5*, *85*(5), 329–336. https://doi.org/10.1007/S10327-019-00866-6

Mayer, C., Romero, M., Muras, A., & Otero, A. (2015). Aii20J, a wide-spectrum thermostable N-acylhomoserine lactonase from the marine bacterium *Tenacibaculum* sp. 20J, can quench AHL-mediated acid resistance in *Escherichia coli*. *Applied Microbiology and Biotechnology*, *99*(22), 9523–9539. https://doi.org/10.1007/S00253-015-6741-8

McClean, K. H., Winson, M. K., Fish, L., Taylor, A., Chhabra, S. R., Camara, M., Daykin, M., Lamb, J. H., Swift, S., Bycroft, B. W., Stewart, G. S. A. B., & Williams, P. (1997). Quorum sensing and *Chromobacterium violaceum*: Exploitation of violacein production and inhibition for the detection of N-acylhomoserine lactones. *Microbiology*, *143*(12), 3703–3711. https://doi.org/10.1099/00221287-143-12-3703

McGowan, S. J., Barnard, A. M. L., Bosgelmez, G., Sebaihia, M., Simpson, N. J. L., Thomson, N. R., Todd, D. E., Welch, M., Whitehead, N. A., & Salmond, G. P. C. (2005). Carbapenem antibiotic biosynthesis in *Erwinia carotovora* is regulated by physiological and genetic factors modulating the quorum sensing-dependent control pathway. *Molecular Microbiology*, *55*(2), 526–545. https://doi.org/10.1111/J.1365-2958.2004.04397.X

Messing, R., & Brodeur, J. (2018). Current challenges to the implementation of classical biological control. *BioControl*, *63*(1). https://doi.org/10.1007/S10526-017-9862-4

Miller, G. L. (1959). Use of Dinitrosalicylic Acid Reagent for Determination of Reducing Sugar. *Analytical Chemistry*, *31*(3), 426–428. https://doi.org/10.1021/AC60147A030

Miller, M. B., & Bassler, B. L. (2001). Quorum sensing in bacteria. *Annual Review of Microbiology*, *55*, 165–199. https://doi.org/10.1146/ANNUREV.MICRO.55.1.165

Mole, B. M., Baltrus, D. A., Dangl, J. L., & Grant, S. R. (2007). Global virulence regulation networks in phytopathogenic bacteria. *Trends in Microbiology*, *15*(8), 363–371. https://doi.org/10.1016/J.TIM.2007.06.005

Moleleki, L. N., Pretorius, R. G., Tanui, C. K., Mosina, G., & Theron, J. (2017). A quorum sensing-defective mutant of *Pectobacterium carotovorum* ssp. *brasiliense* 1692 is attenuated in virulence and unable to occlude xylem tissue of susceptible potato plant stems. *Molecular plant pathology*, *18*(1), 32-44.

Molina, L., Constantinescu, F., Michel, L., Reimmann, C., Duffy, B., & Défago, G. (2003). Degradation of pathogen quorum-sensing molecules by soil bacteria: a preventive and curative biological control mechanism. *FEMS microbiology ecology*, *45*(1), 71-81.

Monson, R., Burr, T., Carlton, T., Liu, H., Hedley, P., Toth, I., & Salmond, G. P. C. (2013). Identification of genes in the VirR regulon of *Pectobacterium atrosepticum* and characterization of their roles in quorum sensing-dependent virulence. *Environmental Microbiology*, *15*(3), 687–701. https://doi.org/10.1111/J.1462-2920.2012.02822.X

Mori, Y., Ishikawa, S., Ohnishi, H., Shimatani, M., Morikawa, Y., Hayashi, K., Ohnishi, K., Kiba, A., Kai, K., & Hikichi, Y. (2018). Involvement of ralfuranones in the quorum sensing signalling pathway and virulence of *Ralstonia solanacearum* strain OE1-1. *Molecular Plant Pathology*, *19*(2), 454–463. https://doi.org/10.1111/MPP.12537

Mortazavi, S. A., Bahrami, A. R., Sadeghi, B., & Matin, M. M. (2014). Designing a SYBR Green absolute real time PCR assay for specific detection and quantification of *Bacillus subtilis* in dough used for bread making. *Journal of Cell and Molecular Research*, *6*(2), 83-92.

Nasser, W., Dorel, C., Wawrzyniak, J., van Gijsegem, F., Groleau, M. C., Déziel, E., & Reverchon, S. (2013). Vfm a new quorum sensing system controls the virulence of *Dickeya dadantii*. *Environmental Microbiology*, *15*(3), 865–880. https://doi.org/10.1111/1462-2920.12049

Nealson, K. H., Platt, T., & Hastings, J. W. (1970). Cellular control of the synthesis and activity of the bacterial luminescent system. *Journal of Bacteriology*, *104*(1), 313–322. https://doi.org/10.1128/JB.104.1.313-322.1970

Nedjma, M., Hoffmann, N., & Belarbi, A. (2001). Selective and sensitive detection of pectin lyase activity using a colorimetric test: application to the screening of microorganisms possessing pectin lyase activity. *Analytical biochemistry*, *291*(2), 290-296.

Nelson, P. E., & Dickey, R. S. (1970). Histopathology of Plants Infected with Vascular Bacterial Pathogens. *Annual Review of Phytopathology*, *8*(1), 259–280. https://doi.org/10.1146/ANNUREV.PY.08.090170.001355

Newton, J. A., & Fray, R. G. (2004). Integration of environmental and host-derived signals with quorum sensing during plant–microbe interactions. *Cellular Microbiology*, *6*(3), 213–224. https://doi.org/10.1111/J.1462-5822.2004.00362.X

Ng, W. L., & Bassler, B. L. (2009). Bacterial Quorum-Sensing Network Architectures. *Http://Dx.Doi.Org/10.1146/Annurev-Genet-102108-134304*, *43*, 197–222. https://doi.org/10.1146/ANNUREV-GENET-102108-134304

Obi, C. C., Adebusoye, S. A., Amund, O. O., Ugoji, E. E., & Hickey, W. J. (2020). Biodegradation of Polycyclic Aromatic Hydrocarbon Mixtures by *Rhodococcus Pyridinivorans* FF2 and *Pseudomonas Aeruginosa* F4b Isolated from Sediments of Lagos Lagoon, Nigeria.

O'Rourke, J. P., Daly, S. M., Triplett, K. D., Peabody, D., Chackerian, B., & Hall, P. R. (2014). Development of a Mimotope Vaccine Targeting the *Staphylococcus aureus* Quorum Sensing Pathway. *PLOS ONE*, *9*(11), e111198. https://doi.org/10.1371/JOURNAL.PONE.0111198

Papenfort, K., & Bassler, B. L. (2016). Quorum-Sensing Signal-Response Systems in Gram-Negative Bacteria. *Nature Reviews. Microbiology*, *14*(9), 576. https://doi.org/10.1038/NRMICRO.2016.89

Park, S. Y., Lee, S. J., Oh, T. K., Oh, J. W., Koo, B. T., Yum, D. Y., & Lee, J. K. (2003). AhlD, an N-acylhomoserine lactonase in Arthrobacter sp., and predicted homologues in other bacteria. *Microbiology*, *149*(6), 1541-1550.

Park, S. Y., Kang, H. O., Jang, H. S., Lee, J. K., Koo, B. T., & Yum, D. Y. (2005). Identification of extracellular N-acylhomoserine lactone acylase from a *Streptomyces* sp. and its application to quorum quenching. *Applied and Environmental Microbiology*, *71*(5), 2632-2641.

Pelaez, V., & Mizukawa, G. (2016). Diversification strategies in the pesticide industry: from seeds to biopesticides. *Ciência Rural*, *47*.

Pirhonen, M., Flego, D., Heikinheimo, R., & Palva, E. T. (1993). A small diffusible signal molecule is responsible for the global control of virulence and exoenzyme production in the plant pathogen *Erwinia carotovora*. *The EMBO Journal*, *12*(6), 2467–2476. https://doi.org/10.1002/J.1460-2075.1993.TB05901.X

Polkade, A. v., Mantri, S. S., Patwekar, U. J., & Jangid, K. (2016). Quorum sensing: An under-explored phenomenon in the phylum Actinomycetota. *Frontiers in Microbiology*, *7*(FEB). https://doi.org/10.3389/FMICB.2016.00131/FULL

Põllumaa, L., Alamäe, T., & Mäe, A. (2012). Quorum Sensing and Expression of Virulence in Pectobacteria. *Sensors 2012, Vol. 12, Pages 3327-3349*, *12*(3), 3327–3349. https://doi.org/10.3390/S120303327

Pérombelon, M. C. M. (2002). Potato diseases caused by soft rot erwinias: an overview of pathogenesis. *Plant pathology*, *51*(1), 1-12.

Rajesh, P. S., & Rai, V. R. (2016). Inhibition of QS-regulated virulence factors in *Pseudomonas aeruginosa PAO1* and *Pectobacterium carotovorum* by AHL-lactonase of endophytic bacterium *Bacillus cereus* VT96. *Biocatalysis and Agricultural Biotechnology*, *7*, 154–163. https://doi.org/10.1016/J.BCAB.2016.06.003

Rathinam, P., Murari, B. M., & Viswanathan, P. (2021). Biofilm inhibition and antifouling evaluation of sol-gel coated silicone implants with prolonged release of eugenol against *Pseudomonas aeruginosa*. *Biofouling*, 1-17.

Ravn, L., Christensen, A. B., Molin, S., Givskov, M., & Gram, L. (2001). Methods for detecting acylated homoserine lactones produced by Gram-negative bacteria and their application in studies of AHL-production kinetics. *Journal of Microbiological Methods*, *44*(3), 239–251. https://doi.org/10.1016/S0167-7012(01)00217-2

Ren, D., Madsen, J. S., de la Cruz-Perera, C. I., Bergmark, L., Sørensen, S. J., & Burmølle, M. (2014). High-throughput screening of multispecies biofilm formation and quantitative PCR-based assessment of individual species proportions, useful for exploring interspecific bacterial interactions. *Microbial ecology*, *68*(1), 146-154.

Rizzello, C. G., Filannino, P., di Cagno, R., Calasso, M., & Gobbetti, M. (2014). Quorum-Sensing Regulation of Constitutive Plantaricin by *Lactobacillus plantarum* Strains under a Model System for Vegetables and Fruits. *Applied and Environmental Microbiology*, *80*(2), 777–787. https://doi.org/10.1128/AEM.03224-13/ASSET/A68ED043-C229-4A1C-A98B-1017BFAD08C6/ASSETS/GRAPHIC/ZAM9991050640001.JPEG

Rutherford, S. T., & Bassler, B. L. (2012). Bacterial quorum sensing: its role in virulence and possibilities for its control. *Cold Spring Harbor perspectives in medicine*, *2*(11), a012427.

Ryu, D., Lee, S., Mikolaityte, V., Kim, Y., & Jeong, H. (2020). Identification of a Second Type of AHL-lactonase from *Rhodococcus* sp. BH4, belonging to the α/β Hydrolase Superfamily. https://www.jmb.or.kr/journal/view.html?volume=30&number=6&spage=937

Sambrook, J., & Russell, *D. W. (2001).* Molecular Cloning Book. A laboratory manual.

Scott, R. A., & Lindow, S. E. (2016). Transcriptional control of quorum sensing and associated metabolic interactions in *Pseudomonas syringae* strain B728a. *Molecular Microbiology*, *99*(6), 1080–1098. https://doi.org/10.1111/MMI.13289

Sellstedt, A., & Richau, K. H. (2013). Aspects of nitrogen-fixing Actinomycetota, in particular free-living and symbiotic Frankia. *FEMS Microbiology Letters*, *342*(2), 179-186.

Shah, M. (2014). Efficacy of *Rhodococcus rhodochrous* in microbial degradation of toludine dye. *J Pet Environ Biotechnol*, *5*(4), 187.

Singh, A. A., Singh, A. K., & Nerurkar, A. (2021). Disrupting the quorum sensing mediated virulence in soft rot causing *Pectobacterium carotovorum* by marine sponge associated Bacillus sp. OA10. *World Journal of Microbiology and Biotechnology*, *37*(1). https://doi.org/10.1007/S11274-020-02982-4

Singh, R. P., Desouky, S. E., & Nakayama, J. (2016). Quorum quenching strategy targeting gram-positive pathogenic bacteria. *Advances in Experimental Medicine and Biology*, *901*. https://doi.org/10.1007/5584_2016_1

Sivaranjani, M., Krishnan, S. R., Kannappan, A., Ramesh, M., & Ravi, A. V. (2016). Curcumin from *Curcuma longa* affects the virulence of *Pectobacterium wasabiae* and *P. carotovorum* subsp. *carotovorum* via quorum sensing regulation. *European Journal of Plant Pathology*, *146*(4), 793–806. https://doi.org/10.1007/S10658-016-0957-Z

Smadja, B., Latour, X., Faure, D., Chevalier, S., Dessaux, Y., & Orange, N. (2004). Involvement of N-acylhomoserine lactones throughout plant infection by *Erwinia carotovora* subsp. *atroseptica (Pectobacterium atrosepticum). Molecular Plant-Microbe Interactions*, *17*(11), 1269–1278. https://doi.org/10.1094/MPMI.2004.17.11.1269

Srinandan, C. S., Jadav, V., Cecilia, D., & Nerurkar, A. S. (2010). Nutrients determine the spatial architecture of *Paracoccus* sp. biofilm. *Biofouling*, *26*(4), 449–459. https://doi.org/10.1080/08927011003739760

Steindler, L., & Venturi, V. (2007). Detection of quorum-sensing N-acyl homoserine lactone signal molecules by bacterial biosensors. *FEMS Microbiology Letters*, *266*(1), 1-9.

Sun, J. Q., Xu, L., Tang, Y. Q., Chen, F. M., Liu, W. Q., & Wu, X. L. (2011). Degradation of pyridine by one *Rhodococcus* strain in the presence of chromium (VI) or phenol. *Journal of hazardous materials*, *191*(1-3), 62-68.

Swift, S., Winson, M. K., Chan, P. F., Bainton, N. J., Birdsall, M., Reeves, P. J., Rees, C. E. D., Chhabra, S. R., Hill, P. J., Throup, J. P., Bycroft, B. W., Salmond, G. P. C., Williams, P., & Stewart, G. S. A. B. (1993). A novel strategy for the isolation of luxl homologues: evidence for the widespread distribution of a LuxR:Luxl superfamily in enteric bacteria.

Molecular Microbiology, *10*(3), 511–520. https://doi.org/10.1111/J.1365-2958.1993.TB00923.X

Talreja, S. S., & Nerurkar, A. S. (2018). Small molecules cause virulence attenuation of *Xanthomonas oryzae* pv. *oryzae*, the pathogen causing bacterial blight of rice. *European Journal of Plant Pathology*, *151*(1), 229–241. https://doi.org/10.1007/S10658-017-1369-4

Tapia-Rodriguez, M. R., Hernandez-Mendoza, A., Gonzalez-Aguilar, G. A., Martinez-Tellez, M. A., Martins, C. M., & Ayala-Zavala, J. F. (2017). Carvacrol as potential quorum sensing inhibitor of *Pseudomonas aeruginosa* and biofilm production on stainless steel surfaces. *Food Control*, *75*, 255-261.

Teixeira, N., Varahan, S., Gorman, M. J., Palmer, K. L., Zaidman-Remy, A., Yokohata, R., Nakayama, J., Hancock, L. E., Jacinto, A., Gilmore, M. S., & de Fátima Silva Lopes, M. (2013). Drosophila Host Model Reveals New *Enterococcus faecalis* Quorum-Sensing Associated Virulence Factors. *PLOS ONE*, *8*(5), e64740. https://doi.org/10.1371/JOURNAL.PONE.0064740

Thamhesl, M., Apfelthaler, E., Schwartz-Zimmermann, H. E., Kunz-Vekiru, E., Krska, R., Kneifel, W., Schatzmayr, G., & Moll, W. D. (2015). *Rhodococcus erythropolis* MTHt3 biotransforms ergopeptines to lysergic acid Microbial biochemistry, physiology and metabolism. *BMC Microbiology*, *15*(1). https://doi.org/10.1186/S12866-015-0407-7

Thite, V. S., Nerurkar, A. S., & Baxi, N. N. (2020). Optimization of concurrent production of xylanolytic and pectinolytic enzymes by *Bacillus safensis* M35 and *Bacillus altitudinis* J208 using agro-industrial biomass through Response Surface Methodology. *Scientific reports*, *10*(1), 1-12.

Thornton, B., & Basu, C. (2011). Real-time PCR (qPCR) primer design using free online software. *Biochemistry and Molecular Biology Education*, *39*(2), 145-154.

Tichy, E. M., Luisi, B. F., & Salmond, G. P. C. (2014). Crystal Structure of the Carbapenem Intrinsic Resistance Protein CarG. *Journal of Molecular Biology*, *426*(9), 1958–1970. https://doi.org/10.1016/J.JMB.2014.02.016

URI Genomics & Sequencing Center Copy - Google Scholar. (n.d.). Retrieved October 28, 2021, from https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=URI+Genomics+%26+Sequencing+Center+Copy+&btnG=

Uroz, S., Chhabra, S. R., Camara, M., Williams, P., Oger, P., & Dessaux, Y. (2005). N-Acylhomoserine lactone quorum-sensing molecules are modified and degraded by *Rhodococcus erythropolis* W2 by both amidolytic and novel oxidoreductase activities. *Microbiology*, *151*(10), 3313-3322.

Uroz, S., Dessaux, Y., & Oger, P. (2009). Quorum sensing and quorum quenching: the yin and yang of bacterial communication. *ChemBioChem*, *10*(2), 205-216.

Uroz, S., Oger, P. M., Chapelle, E., Adeline, M. T., Faure, D., & Dessaux, Y. (2008). A *Rhodococcus* qsdA-encoded enzyme defines a novel class of large-spectrum quorum-quenching lactonases. *Applied and Environmental Microbiology*, *74*(5), 1357–1366. https://doi.org/10.1128/AEM.02014-07

Utari, P. D., Vogel, J., & Quax, W. J. (2017). Deciphering physiological functions of AHL quorum quenching acylases. *Frontiers in Microbiology*, *8*(JUN), 1123. https://doi.org/10.3389/FMICB.2017.01123/BIBTEX

Valente, R. S., Nadal-Jimenez, P., Carvalho, A. F., Vieira, F. J., & Xavier, K. B. (2017). Signal integration in quorum sensing enables cross-species induction of virulence in *Pectobacterium wasabiae*. *MBio*, *8*(3), e00398-17.

Valente, R. S., & Xavier, K. B. (2016). The Trk potassium transporter is required for RsmB-mediated activation of virulence in the phytopathogen *Pectobacterium wasabiae. Journal of Bacteriology*, *198*(2), 248–255. https://doi.org/10.1128/JB.00569-15/SUPPL_FILE/ZJB999093867SO1.PDF

Vasavi, H. S., Arun, A. B., & Rekha, P. D. (2016). Anti-quorum sensing activity of flavonoid-rich fraction from *Centella asiatica* L. against *Pseudomonas aeruginosa* PAO1. *Journal of Microbiology, Immunology and Infection*, *49*(1), 8–15. https://doi.org/10.1016/J.JMII.2014.03.012

Vesuna, A., & Nerurkar, A. S. (2018). Enzymatic quorum quenching for virulence attenuation of phytopathogenic bacteria. *Biotechnological Applications of Quorum Sensing Inhibitors*, 447–473. https://doi.org/10.1007/978-981-10-9026-4_21

Vesuna, A. P., & Nerurkar, A. S. (2020). Biocontrol impact of AHL degrading Actinomycetota on quorum sensing regulated virulence of phytopathogen *Pectobacterium carotovorum* subsp. *carotovorum* BR1. *Plant and Soil*, *453*(1–2), 371–388. https://doi.org/10.1007/S11104-020-04623-Z

von Bodman, S. B., Bauer, W. D., & Coplin, D. L. (2003). Quorum Sensing in Plant-Pathogenic Bacteria. *Annual Review of Phytopathology*, *41*, 455–482. https://doi.org/10.1146/ANNUREV.PHYTO.41.052002.095652

Wang, L. H., Weng, L. X., Dong, Y. H., & Zhang, L. H. (2004). Specificity and enzyme kinetics of the quorum-quenching N-acyl homoserine lactone lactonase (AHL-lactonase). *Journal of Biological Chemistry*, *279*(14), 13645-13651.

Wang, W. Z., Morohoshi, T., Ikenoya, M., Someya, N., & Ikeda, T. (2010). AiiM, a Novel Class ot N-Acylhomosenne Lactonase from the Leaf-Associated Bacterium

Microbacterium testaceum. *Applied and Environmental Microbiology*, *76*(8), 2524–2530. https://doi.org/10.1128/AEM.02738-09/ASSET/89B235C0-E780-451D-92BA-A6E180A2CF51/ASSETS/GRAPHIC/ZAM9991008670006.JPEG

Wang, X., Shen, S., Wu, H., Wang, H., Wang, L., Microorganisms, Z. L.-, & 2021, undefined. (n.d.). *Acinetobacter tandoii* ZM06 Assists *Glutamicibacter nicotianae* ZM05 in Resisting Cadmium Pressure to Preserve Dipropyl Phthalate Biodegradation. *Mdpi.Com*. Retrieved December 7, 2021, from https://www.mdpi.com/2076-2607/9/7/1417

Waters, C. M., & Bassler, B. L. (2005). Quorum sensing: Cell-to-cell communication in bacteria. *Annual Review of Cell and Developmental Biology*, *21*, 319–346. https://doi.org/10.1146/ANNUREV.CELLBIO.21.012704.131001

Wilson, K. (2001). Preparation of Genomic DNA from Bacteria . *Current Protocols in Molecular Biology*, *56*(1). https://doi.org/10.1002/0471142727.MB0204S56

Winson IY, M. K., Swift, S., Hill, P. J., Sims, C. M., Griesmayr, G., Bycroft, B. W., Williams, P., & SAB Stewart, G. (1998). Engineering the luxCDABE genes from *Photorhabdus luminescens* to provide a bioluminescent reporter for constitutive and promoter probe plasmids and mini-Tn5 constructs. *FEMS Microbiology Letters*, *163*(2), 193–202. https://doi.org/10.1111/J.1574-6968.1998.TB13045.X

Wolf, D., Rippa, V., Mobarec, J. C., Sauer, P., Adlung, L., Kolb, P., & Bischofs, I. B. (2016). The quorum-sensing regulator ComA from *Bacillus subtilis* activates transcription using topologically distinct DNA motifs. *Nucleic Acids Research*, *44*(5), 2160–2172. https://doi.org/10.1093/NAR/GKV1242

Yandigeri, M. S., Meena, K. K., Singh, D., Malviya, N., Singh, D. P., Solanki, M. K., Yadav, A. K., & Arora, D. K. (2012). Drought-tolerant endophytic Actinomycetota promote growth of wheat (*Triticum aestivum*) under water stress conditions. *Plant Growth Regulation*, *68*(3), 411–420. https://doi.org/10.1007/s10725-012-9730-2

Yates, E. A., Philipp, B., Buckley, C., Atkinson, S., Chhabra, S. R., Sockett, R. E., Goldner, M., Dessaux, Y., Cámara, M., Smith, H., & Williams, P. (2002). N-acylhomoserine lactones undergo lactonolysis in a pH-, temperature-, and acyl chain length-dependent manner during growth of *Yersinia pseudotuberculosis* and *Pseudomonas aeruginosa*. *Infection and Immunity*, *70*(10), 5635–5646. https://doi.org/10.1128/IAI.70.10.5635-5646.2002

Ye, J., Coulouris, G., Zaretskaya, I., Cutcutache, I., Rozen, S., & Madden, T. L. (2012). Primer-BLAST: a tool to design target-specific primers for polymerase chain reaction. *BMC Bioinformatics*, *13*, 134. https://doi.org/10.1186/1471-2105-13-134

Yoon, J. H., Kang, S. S., Cho, Y. G., Lee, S. T., Kho, Y. H., Kim, C. J., & Park, Y. H. (2000). *Rhodococcus pyridinivorans* sp. nov., a pyridine-degrading bacterium. *International*

Journal of Systematic and Evolutionary Microbiology, *50*(6), 2173–2180. https://doi.org/10.1099/00207713-50-6-2173

Yoon, S. H., Ha, S. M., Kwon, S., Lim, J., Kim, Y., Seo, H., & Chun, J. (2017). Introducing EzBioCloud: a taxonomically united database of 16S rRNA gene sequences and whole-genome assemblies. *International journal of systematic and evolutionary microbiology*, *67*(5), 1613.

Yu, X., Lund, S. P., Greenwald, J. W., Records, A. H., Scott, R. A., Nettleton, D., Lindow, S. E., Gross, D. C., & Beattie, G. A. (2014). Transcriptional analysis of the global regulatory networks active in *Pseudomonas syringae* during leaf colonization. *MBio*, *5*(5). https://doi.org/10.1128/MBIO.01683-14/SUPPL_FILE/MBO004141962ST4.PDF

Zamani, M., Behboudi, K., & Ahmadzadeh, M. (2013). Quorum quenching by *Bacillus cereus* U92: a double-edged sword in biological control of plant diseases. *Http://Dx.Doi.Org/10.1080/09583157.2013.787046*, *23*(5), 555–573. https://doi.org/10.1080/09583157.2013.787046

Zhang, H., Dong, Y.-H., Zhang, L.-H., & Dong, Y.-H. (2004). Quorum sensing and signal interference: diverse implications. *Molecular Microbiology*, *53*(6), 1563–1571. https://doi.org/10.1111/J.1365-2958.2004.04234.X

Zhang, J. H., Mao, Z. Q., Wang, L. Q., & Shu, H. R. (2007). Bioassay and identification of root exudates of three fruit tree species. *Journal of Integrative Plant Biology*, *49*(3), 257–261. https://doi.org/10.1111/J.1744-7909.2007.00307.X

Zhao, H. M., Hu, R. W., Chen, X. X., Chen, X. B., Lü, H., Li, Y. W., ... & Wong, M. H. (2018). Biodegradation pathway of di-(2-ethylhexyl) phthalate by a novel *Rhodococcus pyridinivorans* XB and its bioaugmentation for remediation of DEHP contaminated soil. *Science of the Total Environment*, *640*, 1121-1131.

Zhao, Y., Li, P., Huang, K., Wang, Y., Hu, H., & Sun, Y. (2013). Control of postharvest soft rot caused by *Erwinia carotovora* of vegetables by a strain of *Bacillus amyloliquefaciens* and its potential modes of action. *World Journal of Microbiology and Biotechnology*, *29*(3), 411–420. https://doi.org/10.1007/S11274-012-1193-0

Zhou, L., Zhang, L. H., Cámara, M., & He, Y. W. (2017). The DSF family of quorum sensing signals: diversity, biosynthesis, and turnover. *Trends in microbiology*, *25*(4), 293-303.

Zozaya-Hinchliffe, M., Martin, D. H., & Ferris, M. J. (2008). Prevalence and abundance of uncultivated Megasphaera-like bacteria in the human vaginal environment. *Applied and Environmental Microbiology*, *74*(5), 1656-1659.