

Supplementary Table 1. Data summary and phylotype OTUs

Sample ID	Total Reads	Total Bases	OTUs
VAGDNA	291,132	144,033,010	1807
MORJDNA	359,590	182,666,862	1703

Supplementary Table 2: Species richness estimates

Diversity index	VAGDNA	MORJDNA
Chao I	1964.1	1902
ACE	2002.2	1908
Shannon	6.63	4.1

Supplementary Table 3. Identified bacterial taxa as potential hydrocarbon degraders

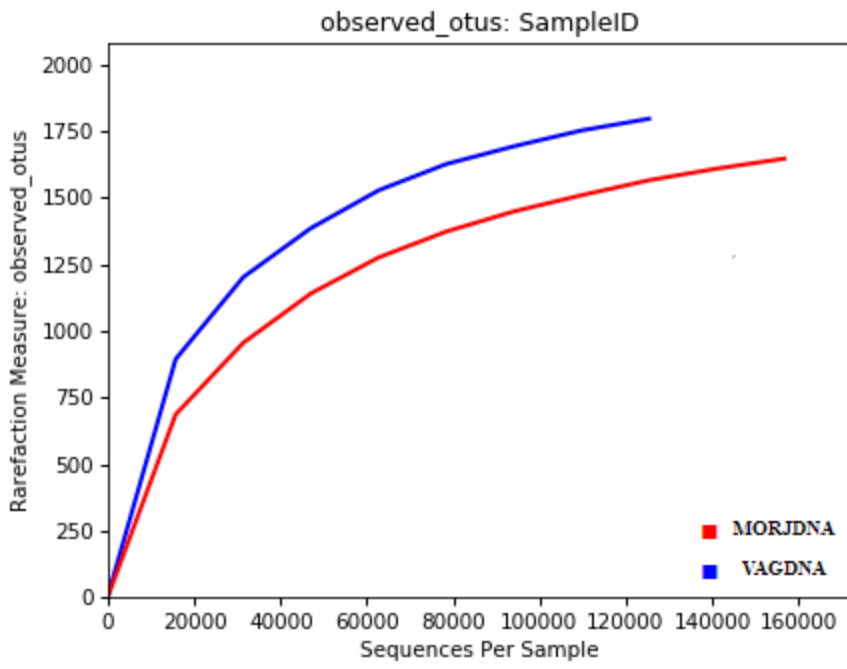
Bacteria	Substrate	References
<i>Marinobacter</i> sp.	Alkanes, PAHs	Head et al. (2006), Liu & Liu (2013), Kostka et al. (2011)
<i>Marinobacter sedimentarum</i> , <i>Marinobacter flavimaris</i>	Aliphatic and aromatic hydrocarbons	Al-Mailem et al. (2013)
<i>Marinobacter vinifirmus</i> , <i>Marinobacter hydrocarbonoclasticus</i>	Aromatic hydrocarbon	Berlendis et al. (2010)
<i>Marinobacter nanhaiticus</i>	PAHs	Gao et al. (2013)
<i>Halomonas</i> sp.	Crude Oil, Hydrocarbons	Fathepure, (2014), Mnif, et. al. (2009) Wang et al.(2007) and Head et al.(2006)
<i>Pseudomonas aeruginosa</i>	Aliphatic and Aromatic Hydrocarbons	Fathepure, (2014), Bacosa et al. (2013) , Mukherjee et al.(2010) Head et al. (2006)
<i>Glaciecola</i> sp.	Crude Oil, Alkanes	Chronopoulou et al. (2015), Brakstad et al. (2008)
<i>Cobetia marina</i>	PAHs	Lee et al. (2018)
<i>Petrobacter</i> sp.	Hydrocarbons	De Vasconcellos et al. (2010) Parnadi et al. (2007)
<i>Pseudoalteromonas</i> sp.	Crude Oil, PAHs	Bacosa et al. (2016), Hedlund & Staley (2006)
<i>Alteromonas</i> sp.	PAHs	Jin et al. (2012), Cui et al. (2008)
<i>Alcanivorax borkumensis</i>	Crude Oil, PAHs	Bacosa et al. (2016), McGenity et al. (2012), Yakimov et al. (1998)
<i>Sphingobium</i> sp.	PAHs	Bacosa & Inoue (2015 b), Das, & Chandran(2011), Kertesz & Kawasaki (2010)
<i>Sphingomonas paucimobilis</i>	PAHs	Das & Chandran (2011), Kertesz & Kawasaki (2010), Daugulis & McCracken (2003), Ye et al.(1995)
<i>Gordonia</i> sp.	Hydrocarbons	Chaillan et al. (2004), Kubota et al.(2008)
<i>Rhodococcus</i> sp.	Alkanes, Monocyclic aromatic hydrocarbons	Das & Chandran (2011), Kubota et al.(2008), Kim et al. (2002)
<i>Oleibacter marinus</i>	Aliphatic Hydrocarbons	Coulon et al. (2012), Teramoto et al. (2011)

<i>Novosphingobium indicum</i>	PAHs	Kertesz& Kawasaki (2010), Yuan et al. (2009)
<i>Arthrobacter</i> sp.	PAHs	Das & Chandran (2011), Plotnikova et al. (2011), Juhasz& Naidu (2000), Jones et al. (1983)
<i>Corynebacterium</i> , sp., <i>Micrococcus</i> sp., <i>Flavobacterium</i> sp.	Crude oil	Adebusoye et al. (2007)
<i>Burkholderia</i> sp., <i>Mycobacterium</i> sp., <i>Brevibacterium</i> sp.	Petroleum hydrocarbons	Chaillan et al.(2004), Jones et al. (1983)
<i>Alkanindiges illinoisensis</i>	Crude oil	Ron & Rosenberg (2010), Bogan et al. (2003)
<i>Desulfoglaeba alkanexedens</i>	Alkanes	Davidova et al.(2006)
<i>Thalassospira tepidiphila</i>	PAHs	Zhao et al.(2010), Kodama et al.(2008)
<i>Nonlabens</i>	Petroleum hydrocarbons	Netzer et al.(2018)
<i>Bacillus</i> sp.	Crude oil	Kumar et al. (2007)
<i>Dietzia psychralcaliphila</i>		Wang et al. (2011), Yumoto et al.(2002)
<i>Psychrobacter</i> sp.	Aliphatic Hydrocarbons	Bacosa et al. (2016)
<i>Acinetobacter</i> sp.	Alkanes	Ron & Rosenberg, (2010), Throne-Holst et al. (2007)
<i>Vibrio</i> sp.	Crude oil	Ijah&Antai(2003)
<i>Aerococcus</i> sp.	Crude oil	Mayaboti (2016)

Supplementary Table 4. Identified bacterial taxa as pathogens in human and marine environment

Bacteria	Host of Disease	References
<i>Halomonas venusta</i>	Humans, Fishes	Stevens et al.(2009), Kim et al. (2013), von Graevenitz et al.(2002)
<i>Pseudomonasaeruginosa</i>	Humans	Thompson et al. (2005), Ahlén et al. (2000)
<i>Bacillus subtilis</i> , <i>Bacillus sphaericus</i> <i>Bacillus anthracis</i>	Humans infections	Farrar (1963)
<i>Klebsiella</i> sp.	Humans	Podschun and Ullmann (1998)
<i>Staphylococcus aureus</i>	Humans, Marine Animals	Charoenca& Fujioka (1993), Thomas& Scott (1997), Feldhusen (2000), Tryland, (2000)
<i>Aerococcus viridans</i>	Humans, Marine Animals	Stewart et al. (2004), Rasmussen, M. (2016), Torrent et al. (2002)
<i>Fusobacterium nucleatum</i>	Humans	Han (2015)
<i>Alloiococcus otitidis</i>	Humans	Tano et al. (2008)
<i>Serratia liquefaciens</i>	Humans	Starliper, (2001), Grohskopf et al. (2001)
<i>Rothia mucilaginosa</i>	Humans	Tomczak et al. (2013)
<i>Mycobacterium tuberculosis</i> , <i>Mycobacterium marinum</i>	Humans, Marine Animals	Lehane&Rawlin, (2000);Montali et al. (2001)
<i>Elizabethkingia</i> sp.	Humans	Bernardet& Nakagawa, (2006), Loch& Faisal, (2015).
<i>Hemophilus piscium</i>	Humans	Snieszko et al. (1950), Slack (2012).
<i>Micrococcus</i> sp.	Humans	Oudiz et al. (2004)
<i>Tenacibaculum maritimum</i>	Marine Animals	Avendaño-Herrera et al.(2006), Toranzo et al.(2005)
<i>Prevotella nigrescens</i> <i>Prevotella intermedia</i>	Marine Animals	Smalley et al.(2003)
<i>Achromobacter xylosoxidans</i>	Humans	Awadh et al. (2017)
<i>Shewanella putrefaciens</i> <i>Shewanella algae</i>	Humans, Marine Animals	Leong et al.(2000), Vogel et al. (2000), Pagani et al. (2003)
<i>Comamonas testosteroni</i>	Humans	Farooq et al. (2017)
<i>Streptococcus pneumoniae</i> , <i>Streptococcus iniae</i>	Humans, Marine Animals	Lehane&Rawlin (2000), Thomas & Scott (1997), Weinstein et al. (1997)
<i>Veillonella parvula</i>	Marine Animals	Bhatti et al. (2002)

<i>Brevibacterium</i> sp.	Humans	Ulrich et al. (2006)
<i>Flavobacterium</i> sp.	Marine Animals	Austin et al. (2012)
<i>Kocuria kristinae</i>	Humans	Chen et al. (2015)
<i>Corynebacterium striatum</i>	Humans	Watkins et al. (1993)
<i>Rhodococcus equi</i>	Marine Animals	Weinstock & Brown (2002)
<i>Vibrio vulnificus</i> <i>Vibrio cholera</i> <i>Vibrio parahaemolyticus</i>	Humans, Marine Animals	Phillips & Satchell (2017), Tao et al. (2011), Thompson et al. (2005)
<i>Acinetobacter calcoaceticus</i>	Marine Animals	Bergogne-Berezin & Towner (1996), Grimes, 1991
<i>Aggregatibacter actinomycetemcomitans</i>	Humans	Li et al. (2011)
<i>Dietzia</i> sp.	Humans	Koerner et al. (2009)
<i>Campylobacter lari</i> , <i>Campylobacter jejuni</i>	Humans, Marine Animals	Endtz et al. (1997) Abeyta et al. (1993)
<i>Roseomonas</i> sp.	Humans	Rihs et al. (1993)
<i>Granulicatella adiacens</i>	Humans	Hepburn et al. (2003)
<i>Burkholderia</i> sp.	Marine Animals	Hicks et al. (2000)
<i>Clostridium perfringens</i> , <i>Clostridium botulinum</i>	Humans, Marine Animals	Feldhusen, (2000), Aschfalk & Muller (2001), Weber et al. (1993)
<i>Cupriavidus metallidurans</i>	Humans	Langevin et al. (2011)
<i>Treponema pallidum</i>	Humans	Salazar et al. (2002)



Supplementary Fig.1 Rarefaction curves for Operational Taxonomic Units (OTUs)

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