

Supplementary

Table S1 The primers and PCR conditions for the amplification of *bla_{IND}*

Gene	Primer	Sequence(5'-3')	Amplicon size	Reference
<i>bla_{IND-1}</i> , <i>bla_{IND-7}</i>	IND-1/7F	TGTTGAGCCCTTTTGCAAGT	460 bp	This study
	IND-1/7R	ATCATGGGAGTGTGTGGCAA		
<i>bla_{IND-2}</i> , <i>bla_{IND-11to13}</i> , <i>bla_{IND-15}</i>	IND-2F	ATGAAAAAAGTATTTCAGCTTTTG	732 bp	(1)
	IND-2R	TTATCCGGCTTTTTATTCTTATC		
<i>bla_{IND-3}</i> , <i>bla_{IND-5}</i> , <i>bla_{IND-14}</i>	IND-3F	ATGAAAAAAGAATTCAGTTC	720 bp	(1)
	IND-3R	TTATTTTTGTGAAGAAGTTC		
<i>bla_{IND-4}</i>	IND-4F	CCTTCGGAGTTTTTGACGGC	367 bp	This study
	IND-4R	CCTTCGGAGTTTTTGACGGC		
<i>bla_{IND-5}</i>	IND-5F	AACAGGAAAGCCTTACCGCA	277 bp	This study
	IND-5R	CTCAACATGTCCTCCGCCTT		
<i>bla_{IND-6}</i>	IND-6F	CGATGACTATAGAAATTGAGGGCA	202 bp	This study
	IND-6R	ATCCAGCAGCTCCAAAGTATG		
<i>bla_{IND-8}</i> , <i>bla_{IND-10}</i> , <i>bla_{IND-16}</i>	IND-8F	TTGAGCCCTTTTGCCAATGC	279 bp	This study
	IND-8R	GCTTAAGTCTCCTGCACGGT		
<i>bla_{IND-9}</i>	IND-9F	AGTCCGTTTGCTAATGCTCAG	390 bp	This study
	IND-9R	TATGTTCTACATGTCCGCCGC		

The conditions were as follows: an initial extended denaturation step of 94 °C for 5 min, followed by 30 cycles of 30 s at 94 °C, 30 s at 54 °C, 1 min at 72 °C, and a final 5 min at 72 °C.

Table S2 Clinical studies published in the period 2010–2019 concerning *Chryseobacterium indologenes*

Author, year (reference)	Country	No. of cases	Gender (No. of patients)	Age (or average age)	Type of infection (No. of patients)	Underlying disease (No. of patients)	Catheter (No. of patients)	Sensitive antimicrobial agents (sensitive rate)	Treatment (No. of patients)	Outcome (No. of patients)
Douvoyiannis <i>et al.</i> , 2010 (2)	USA	1	Female	33 days	Bloodstream infection	None	None	TMP-SMZ, piperacillin-tazobactam, cefepime, ciprofloxacin	Cefepime	Recovered
Lin <i>et al.</i> , 2010 (3)	Taiwan, China	16	Male [12]; Female [4]	66	Bloodstream infection [12]; CVC related bloodstream infection [2]; Peritonitis [1]; Urinary tract infection [1]	Diabetes mellitus [8]; hypertension [8]; Lymphoma [2]; Chronic heart insufficiency [5]; Chronic kidney disease [6]; Chronic obstructive pulmonary disease [2]; Breast cancer [1]; Prostate cancer [1]; kidney cancer [1]	CVC [8]; urinary catheter [7]; Mechanical ventilation [3]	TMP-SMZ (75%), piperacillin-tazobactam (50%), cefepime (12.5%), levofloxacin (62.5%), ciprofloxacin (43.8%)	Appropriate antimicrobial therapy [2]	Recovered [13]; Died [3]
Calderón <i>et al.</i> , 2011(4)	Spain	1	Male	Neonate	VAP	Congenital heart disease	Ventilator	TMP-SMZ, piperacillin-tazobactam, cefepime, quinolones	Piperacillin-tazobactam	Recovered
Wang <i>et al.</i> , 2011(5)	Taiwan, China	1	Female	68	Catheter-related peritonitis	Breast cancer	Intraabdominal catheter	TMP-SMZ	TMP-SMZ	Recovered
Sudharani <i>et al.</i> , 2011(6)	India	1	...	3 6 weeks	Bloodstream infection	Low birth weight premature infant	Mechanical ventilation	Cefoperazone-sulbactam, piperacillin-tazobactam	Cefoperazone-sulbactam	Recovered
Ceylan <i>et al.</i> , 2011(7)	Turkey	1	Male	2 months	Bloodstream infection and central nervous system infection	Congenital hydrocephalus	Cerebrospinal fluid external drainage tube	TMP-SMZ, ciprofloxacin, levofloxacin	Ampicillin-sulbactam, and levofloxacin	Died
Chou <i>et al.</i> , 2011(8)	Taiwan, China	10	Male [5]; Female [5]	71.1	Bloodstream infection [10]	Diabetes mellitus [3]; History of stroke [2]; Liver cirrhosis [2]; Colon tumor [2]; Stomach tumor [1]; Hepatocellular carcinoma [1]; Traumatic brain injury [1]	Mechanical ventilation [10]; CVC [8]	TMP-SMZ (100%), minocycline(100%), ciprofloxacin (30%), levofloxacin (30%), piperacillin-tazobactam (20%), imipenem (10%)	Appropriate antimicrobial therapy [4]	Recovered [6]; Died [4]
Bhuyar <i>et al.</i> , 2012(9)	India	1	Female	19	Urinary tract infection	Renal calculus	Malecot catheter	Piperacillin-tazobactam	Ciprofloxacin, and piperacillin-tazobactam	Recovered
Shah <i>et al.</i> , 2012(10)	USA	1	Female	26	Subcutaneous port-related bloodstream infection	Liver transplant; Cystic fibrosis; Hypothyroidism; Immunosuppression	Subcutaneous port	TMP-SMZ, levofloxacin	Levofloxacin, and TMP-SMZ	Recovered
Chen <i>et al.</i> , 2013(11)	Taiwan, China	113	Male [68]; Female [45]	75.6	Pneumonia [91]; Bloodstream infection [22]; Others [38]	Congestive heart failure [21]; Chronic obstructive pulmonary disease [26]; Malignancy [32]; Chronic kidney disease [37]; History of stroke [31]; Diabetes mellitus [37]; Hypertensive cardiovascular disease [70]; Liver cirrhosis [4]	Tracheostomy [41]; Mechanical ventilation [63]; Indwelling CVC [18]	TMP-SMZ (94.9%), cefoperazone-sulbactam (59%), tigecycline (51.9%), ciprofloxacin (41%), levofloxacin (41%), piperacillin-tazobactam (25.6%), imipenem (7.7%), meropenem (7.7%)	Appropriate antimicrobial therapy [50]	Recovered [67]; Died [46]
Ozcan <i>et al.</i> , 2013(12)	Turkey	1	Male	6 months	Central nervous system infection	Congenital hydrocephalus	Ventriculo-peritoneal shunt	TMP-SMZ, cefoperazone, ciprofloxacin, levofloxacin	TMP-SMZ, and cefoperazone-sulbactam	Recovered
Yasmin <i>et al.</i> , 2013(13)	USA	1	Female	32	VAP	Metastatic breast cancer; Respiratory failure	Prolonged mechanical ventilation; Tracheostomy	TMP-SMZ, ciprofloxacin, levofloxacin	Levofloxacin	Died
Monteen <i>et al.</i> , 2013(14)	USA	1	Male	66	VAP	Trauma; Diabetes mellitus; Hypertension; Small-bowel resection	Mechanical ventilation	Piperacillin/tazobactam, cefepime, imipenem, ciprofloxacin, gentamicin, amikacin	Ampicillin-sulbactam, and moxifloxacin	Recovered
Afshar <i>et al.</i> , 2013(15)	USA	1	Male	51	Peritoneal dialysis-related peritonitis	End-stage renal disease; HIV; Hypertension	Peritoneal dialysis catheter	TMP-SMZ, piperacillin/tazobactam, cefepime, ceftazidime, ciprofloxacin,	Ceftazidime	Recovered
Hendaus <i>et al.</i> , 2013(16)	Qatar	1	Female	Neonate	Meningitis	None	None	TMP-SMZ, cefepime	Cefepime	Recovered
Gauna <i>et al.</i> , 2013(17)	Brazil	5	...	...	Bacteremia [5]	End-stage renal disease [5]; Hemodialysis [5]	CVC [5]	...	...	...
Olbrih <i>et al.</i> , 2013(18)	Spain	1	Male	11 months	Central nervous system infection	Holoprosencephaly; Obstructive; Hydrocephalus	Post-natal ventriculoperitoneal shunt	TMP-SMZ, ceftazidime, cefepime, ciprofloxacin	TMP-SMZ, and ceftazidime	Recovered
Eshwara <i>et al.</i> , 2014(19)	India	1	Female	Neonate	Neonatal meningitis and sepsis	Small for gestational age	None	TMP-SMZ, ciprofloxacin	Ciprofloxacin	Recovered
Wang <i>et al.</i> , 2014(20)	China	1	Male	73	Central nervous system infection	Subarachnoid hemorrhage Ruptured middle cerebral artery aneurysm Hypertension	Lumbar external drainage	TMP-SMZ	TMP/SMZ, SMZ, and teicoplanin	Recovered
Deng <i>et al.</i> , 2015(21)	China	23	Male [14]; Female [9]	48.2	Urinary tract infection [9]; Pneumonia [7]; Bacteremia [6]; Central nervous system infection [1]	Organ cancer [5]; Leukemia [4]; AlloHSCT [2]; Chemotherapy [2]; Post-renal transplantation [1]	CVC [1]; Ventilator [2]; Tracheotomy [1]	TMP-SMZ (73.9%), piperacillin/tazobactam (26.1%), minocycline (21.7%)	Appropriate antimicrobial therapy [5]	Recovered [19]; Died [4]
Nemli <i>et al.</i> , 2015(22)	Turkey	1	Male	82	VAP	Respiratory failure; Trauma	Tracheostomy	Levofloxacin	Ertapenem, and levofloxacin	Recovered
Esposito <i>et al.</i> , 2015(23)	Italy	1	Female	51	Bacteremia	Chronic obstructive; Pulmonary disease; Hypertension; Bradycardia; Ischemic heart disease; Bilateral carotid atheroma	None	TMP-SMZ, ciprofloxacin	None	Recovered
Srinivasan <i>et al.</i> , 2016(24)	India	1	Female	11	Soft tissue infection	None	None	Ceftazidime, imipenem, levofloxacin, ciprofloxacin, cotrimoxazole, minocycline	Ceftazidime, and metronidazole	Recovered
Baruah <i>et al.</i> , 2016(25)	India	1	Female	22	Bacteremia	None	None	Piperacillin, piperacillin-tazobactam, ofloxacin, ciprofloxacin	Ciprofloxacin	Recovered
Atici <i>et al.</i> , 2016(26)	Turkey	1	Female	3 months	VAP	Meningomyelocele Congenital Diaphragmatic hernia	Ventriculo-peritoneal shunt Mechanical Ventilation	Piperacillin-tazobactam, cefepime, ciprofloxacin, levofloxacin,	Ciprofloxacin	Recovered
Aykac <i>et al.</i> , 2016(27)	Turkey	6	Male (3); Female (3)	22.9 months	Bloodstream infection [2]; CVC related bloodstream infection [2]; Pneumonia [1]; Central nervous system infection [1]	Congenital heart disease [1]; Congenital metabolic disease [1]; Congenital hydrocephalus [1]; Nephrotic syndrome with cystic fibrosis [1]; Intestinal obstruction [1]; Congenital thrombocytopenic purpura [1]	Mechanical ventilation [1]; CVC [3]; Ventriculo-peritoneal shunt [1]; None [2]	Ciprofloxacin (83.3%), piperacillin/tazobactam (66.6%), cefepime (66.6%), ceftazidime (50%), amikacin (50%)	Ciprofloxacin, imipenem and linezolid [1] Ciprofloxacin, and TMP-SMZ [1] Ceftriaxone [2] Meropenem, and amikacin [1] Ciprofloxacin, meropenem, and vancomycin [1]	Recovered [5]; Died [1]
Osamu <i>et al.</i> , 2017(28)	Japan	1	Female	64	VAP	T-cell leukemia/lymphoma; Human herpes virus (type 6); Meningoencephalitis	Tracheostomy	Ceftazidime, piperacillin-tazobactam, cefoperazone-sulbactam, minocycline, amikacin	Piperacillin/tazobactam, and meropenem	Died
Antonello <i>et al.</i> , 2017(29)	Brazil	1	Male	10 days	VAP	Meconium in the amniotic fluid; HIV exposure	Mechanical ventilation	Piperacillin-tazobactam, cefepime, ceftazidime	Cefepime	Recovered
Das <i>et al.</i> , 2017(30)	India	1	Female	10 weeks	VAP	Atrioventricular canal defect; Hyperkinetic pulmonary arterial hypertension	Mechanical ventilation	TMP/SMZ, cefepime, ciprofloxacin	Cefepime	Recovered
Corbella <i>et al.</i> , 2017(31)	Italy	1	Male	11	Catheter-related bloodstream infection	Ewing's sarcoma; Chemotherapy	CVC	TMP/SMZ, ciprofloxacin, levofloxacin	Ciprofloxacin	Recovered
Soydan <i>et al.</i> , 2017(32)	Turkey	1	Male	69	pneumonia	Chronic obstructive pulmonary disease	None	None	Levofloxacin	Recovered
Kaur <i>et al.</i> , 2017(33)	India	9	Male [6]; Female [3]	48.2	Urinary tract infection (9)	Renal stone disease [5]; Carcinoma urinary bladder [3]; Transitional cell carcinoma [1]; Chronic obstructive pulmonary disease [2]; Diabetes mellitus [2]; Hypertension [1]	Urinary catheter or nephrostomy [9]	...	Amikacin, and ceftriaxone [4]; TMP/SMZ [3]; Levofloxacin, and TMP/SMZ [1]; Nitrofurantion, and amoxicillin [1]	Recovered [9]
Mehta <i>et al.</i> , 2018(34)	India	1	Male	Neonate	Bloodstream infection	Low birth weight premature infants; Acute respiratory distress syndrome; Neonatal jaundice	Mechanical ventilation	Cefoperazone-sulbactam, imipenem, meropenem, amikacin, gentamicin, ciprofloxacin	Ciprofloxacin	Recovered
Lin <i>et al.</i> , 2018(35)	Taiwan, China	5	...	...	Bloodstream infection [5]	Burn [5]	CVC [3]	...	...	...
Carvalho <i>et al.</i> , 2018(36)	Portugal	1	Male	76	Peritonitis	End-stage renal disease Peritoneal dialysis Atrial fibrillation Arterial hypertension Pulmonary emphysema Smoker	Peritoneal dialysis catheter	...	Ceftazidime, and ciprofloxacin	Recovered
Mirza <i>et al.</i> , 2018(37)	Turkey	16	Male [2]; Female [14]	3.4	Pneumonia [15]; Bacteremia [1]	Cystic fibrosis [15]; Operated on for craniopharyngioma [1]	CVC [1]; Ventilator [1]	Ciprofloxacin (100%), levofloxacin (100%), TMP/SMZ (100%), piperacillin-tazobactam (100%), ceftazidime (100%), cefepime (100%), imipenem (81.2%), meropenem (81.2%), amikacin (25%), gentamicin (18.8%)	...	...
Cantero <i>et al.</i> , 2018(38)	Spain	4	...	...	Pneumonia [4]	...	...	...	...	Recovered [1]; Died [3]
Jain <i>et al.</i> , 2018(39)	India	11	...	54.2	Bacteremia [6]; Ventilation-associated pneumonia [2]; Urinary tract infection [4]	Diabetes mellitus [7]; Hypertension [9]; History of stroke [4]; Coronary artery disease [5]; End-stage renal disease [3]	Tracheostomy [4]; Central line catheter [8]; Recent surgery [9]; Urinary catheter [12]	TMP/SMZ (91.67%), levofloxacin (75%), ciprofloxacin (41.67%), piperacillin-tazobactam (16.67%).	...	Recovered [7]; Died [4]
Agarwal <i>et al.</i> , 2018(40)	...	2	Male [1]; Female [1]	64.5	CVC related bacteremia [1]; VAP [1]	Breast cancer [1]; Multiple connective tissue disorder [1]; Interstitial lung disease [1]; Hypertension [1]	CVC [1] Ventilator [1]	None	None	Died [2]
Mirza <i>et al.</i> , 2019(41)	Pakistan	1	Male	Neonate	Bacteremia	Low birth weight premature infant	Ventilator	TMP-SMZ, piperacillin-tazobactam, cefoperazone-sulbactam, ciprofloxacin, levofloxacin,	Cefotaxime, and amikacin	Died
Lin <i>et al.</i> , 2019(42)	Taiwan, China	84	Male [59]; Female [25]	59.1	...	Diabetes mellitus [35]; Cardiovascular disease [42]; End-stage renal disease [4]; Malignancy [21]; Liver cirrhosis [7]; Chronic obstructive pulmonary disease [8]	...	Minocycline (73%), TMP-SMZ (47.6%), levofloxacin (32.5%), tigecycline (34.1%), piperacillin-tazobactam (19.8%), piperacillin (19%), ciprofloxacin (18.3%), cefepime (17.5%), ceftazidime (13.5%)	Appropriate antimicrobial therapy [10]	Recovered [63]; Died [21]
Bhagawati <i>et al.</i> , 2019(43)	India	1	Male	59	Bacteremia	Squamous cell carcinoma	CVC	Minocycline	Levofloxacin, and minocycline	Died
Arif <i>et al.</i> , 2019(44)	India	1	Male	42	Pleural effusion	None	None	TMP-SMZ, minocycline, tigecycline	Tigecycline, and cotrimoxazole	Recovered
Cooper <i>et al.</i> , 2019(45)	Israeli	9	Male [6]; Female [3]	5.6	...	Hematological malignances [6]; Hunter disease [1]; Cardiomyopathy [1]; Prematurity [1]; Congenital military tuberculosis [1]	Tracheostomy [1]; CVC [2]; Mechanical ventilation [1]	...	...	Recovered [7]; Died [2]

Note: appropriate antimicrobial therapy was defined if the isolates were susceptible to the prescribed antibiotics. AlloHSCT: allogeneic hematopoietic stem cell transplantation; CVC: central venous catheter; VAP: Ventilator-associated pneumonia; TMP-SMZ: Trimethoprim-sulfamethoxazole; *Information not available

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