

Strain identifier

BacDive ID: 206 **DOI:** 10.13145/bacdive206.20190402.4
Type strain: yes **Designation:** SV 175 SV 17J
Culture col. no.: DSM 25311, ATCC 35243, CCUG 17763, CCUG 20071, LMG 7787, NCTC 11658

Sections

[Name and taxonomic classification](#)
[Morphology and physiology](#)
[Culture and growth conditions](#)
[Isolation, sampling and environmental information](#)
[Application and interaction](#)
[Molecular biology](#)
[Strain availability](#)
[References](#)

Name and taxonomic classification

Ref.: 17992	Domain	Bacteria
Ref.: 17992	Phylum	Actinobacteria
Ref.: 17992	Class	Actinobacteria
Ref.: 17992	Order	Actinomycetales
Ref.: 17992	Family	Actinomycetaceae
Ref.: 17992	Genus	Mobiluncus
Ref.: 17992	Species	Mobiluncus mulieris
Ref.: 17992	Full Scientific Name	Mobiluncus mulieris Spiegel and Roberts 1984 emend. Hoyles et al. 2004
Ref.: 17992	Designation:	SV 175 SV 17J
Ref.: 17992	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Actinobacteria
Ref.: 20215	Class	Actinobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 47:483*
Ref.: 20215	Family	Actinomycetaceae
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:234
Ref.: 20215	Genus	Mobiluncus

Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 34:177*
Ref.: 20215	Species	Mobiluncus mulieris
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 34:177*
Ref.: 20215	Full Scientific Name	Mobiluncus mulieris Spiegel and Roberts 1984 emend. Hoyles et al. 2004 emend. Nouioui et al. 2018
Ref.: 20215	Synonym	Falcivibrio grandis

Morphology and physiology

Ref.: 22975	Gram stain	negative
Ref.: 22975	Cell length	2.9 µm
Ref.: 22975	Cell width	<0.5 µm
Ref.: 22975	Cell shape	rod-shaped
Ref.: 22975	Motility	yes
Ref.: 22975	Flagellum arrangement	lophotrichous

Ref.: 17992	Incubation period	3-7 days
Ref.: 17992	Type of hemolysis	gamma

Ref.: 22975	Colony size	2.0-3.0 mm
Ref.: 22975	Colony color	colorless
Ref.: 22975	Incubation period	5 days

Enzymes	Enzyme	Enzyme activity	EC number
Ref.: 22975	alpha-glucosidase	+	3.2.1.20
Ref.: 22975	catalase	-	1.11.1.6
Ref.: 22975	cytochrome oxidase	-	1.9.3.1
Ref.: 22975	esterase lipase (C 8)	+	
Ref.: 22975	gelatinase	-	
Ref.: 22975	lecithinase	-	
Ref.: 22975	leucine arylamidase	+	3.4.11.1
Ref.: 22975	lipase	-	
Ref.: 22975	phosphoamidase	+	3.9.1.1

Ref.: 17992

API rID32A

API ID	3152
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URE	-
ADH (Arg)	-
alphaGAL	-
betaGAL	-
betaGP	-
alphaGLU	+
betaGLU	-
alphaARA	-
betaGUR	-
betaNAG	-
MNE	-
RAF	-
GDC	-
alphaFUC	-
NIT	-
IND	-
PAL	-
ArgA	+
ProA	+
LGA	+/-
PheA	+
LeuA	+
PyrA	-
TyrA	+
AlaA	+
GlyA	+/-
HisA	-
GGA	-
SerA	-

Metabolite production
[Ref.: 22975](#)
[Ref.: 22975](#)

Chebi ID	Metabolite	Production
33403	Elemental sulfur	no
35581	Indole	no

Metabolite utilization
[Ref.: 22975](#)
[Ref.: 22975](#)

Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
15963	Adonitol	-	builds acid from
27613	Amygdalin	-	builds acid from



Ref.: 22975	22599	Arabinose	+	fermentation
Ref.: 22975	29016	Arginine	-	builds acid from
Ref.: 22975	29016	Arginine	-	growth
Ref.: 22975	17057	Cellobiose	-	builds acid from
Ref.: 22975	17113	Erythritol	-	builds acid from
Ref.: 22975	4853	Esculin	-	builds acid from
Ref.: 22975	4853	Esculin	-	hydrolysis
Ref.: 22975	28757	Fructose	+	fermentation
Ref.: 22975	28260	Galactose	+	fermentation
Ref.: 22975	17234	Glucose	+	fermentation
Ref.: 22975	28087	Glycogen	+	fermentation
Ref.: 22975	18089	Hippuric acid	-	hydrolysis
Ref.: 22975	17268	Inositol	+	fermentation
Ref.: 22975	15443	Inulin	-	builds acid from
Ref.: 22975	17716	Lactose	+	fermentation
Ref.: 22975	17306	Maltose	+	fermentation
Ref.: 22975	29864	Mannitol	-	builds acid from
Ref.: 22975	37684	Mannose	+	fermentation
Ref.: 22975	6731	Melezitose	-	builds acid from
Ref.: 22975	28053	Melibiose	-	fermentation
Ref.: 22975	16634	Raffinose	-	fermentation
Ref.: 22975	26546	Rhamnose	+	fermentation
Ref.: 22975	33942	Ribose	-	fermentation
Ref.: 22975	17814	Salicin	-	builds acid from
Ref.: 22975	30911	Sorbitol	-	builds acid from
Ref.: 22975	28017	Starch	+	fermentation
Ref.: 22975	28017	Starch	+	hydrolysis
Ref.: 22975	17992	Sucrose	+	fermentation
Ref.: 22975	27082	Trehalose	+	fermentation
Ref.: 22975	18222	Xylose	+	fermentation

Ref.: 17992	Oxygen tolerance	anaerobe
Ref.: 22975	Oxygen tolerance	anaerobe
Ref.: 47098	Oxygen tolerance	anaerobe

Ref.: 22975	Ability of spore formation	no
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Culture and growth conditions

Ref.: 17992	Culture medium	PYG MEDIUM (MODIFIED) (DSMZ Medium 104), 37°C, + horse serum (5%) + NaHCO ₃ (0.1%), anaerobic
Ref.: 17992	Culture medium growth	yes
Ref.: 17992	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium104.pdf

Temperatures

Ref.: 17992
 Ref.: 22975
 Ref.: 22975
 Ref.: 22975
 Ref.: 47098

Kind of temperature	Temperature
growth	37 °C
growth	35.0 °C
growth	42.0 °C
growth	45.0 °C
growth	37 °C

Ref.: 17992	Temperature range	mesophilic
Ref.: 22975	Temperature range	mesophilic
Ref.: 47098	Temperature range	mesophilic

Isolation, sampling and environmental information

Ref.: 22975	Sample type/isolated from	vaginae of women with bacterial vaginosis
Ref.: 47098	Sample type/isolated from	Human vagina

Isolation sources categories

Cat1	Cat2	Cat3
#Medical	#Infection	-
#Host	#Human	#Female
#Host Body-Site	#Urogenital tract	#Vagina

Application and interaction

Ref.: 17992	Biosafety level	2 Risk group (German classification)
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Molecular biology

Ref.: 22975	GC-content	49-50 mol% thermal denaturation, midpoint method (T _m)
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	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID	
Ref.: 17992	EMBL Direct submission		AJ427625			
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00005, whole genome shotgun sequence	ACKW01000001	140540	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00006, whole genome shotgun sequence	ACKW01000002	3093	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00007, whole genome shotgun sequence	ACKW01000003	30795	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00008, whole genome shotgun sequence	ACKW01000004	7688	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00009, whole genome shotgun sequence	ACKW01000005	5685	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00010, whole genome shotgun sequence	ACKW01000006	3168	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00011, whole genome shotgun sequence	ACKW01000007	3034	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00012, whole genome shotgun sequence	ACKW01000008	3239	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00013, whole genome shotgun sequence	ACKW01000009	8229	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00014, whole genome shotgun sequence	ACKW01000010	4522	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00015, whole genome shotgun sequence	ACKW01000011	167484	585199	*



Mobiluncus mulieris

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00016, whole genome shotgun sequence	ACKW01000012	35585	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00017, whole genome shotgun sequence	ACKW01000013	22648	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00018, whole genome shotgun sequence	ACKW01000014	1599	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00019, whole genome shotgun sequence	ACKW01000015	20701	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00020, whole genome shotgun sequence	ACKW01000016	2368	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00021, whole genome shotgun sequence	ACKW01000017	2124	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00022, whole genome shotgun sequence	ACKW01000018	16510	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00023, whole genome shotgun sequence	ACKW01000019	93387	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00024, whole genome shotgun sequence	ACKW01000020	16909	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00025, whole genome shotgun sequence	ACKW01000021	1892	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00026, whole genome shotgun sequence	ACKW01000022	265432	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00027, whole genome shotgun sequence	ACKW01000023	135512	585199	*



Mobiluncus mulieris

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00028, whole genome shotgun sequence	ACKW01000024	97130	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00029, whole genome shotgun sequence	ACKW01000025	39548	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00030, whole genome shotgun sequence	ACKW01000026	4181	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00031, whole genome shotgun sequence	ACKW01000027	551	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00032, whole genome shotgun sequence	ACKW01000028	21474	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00034, whole genome shotgun sequence	ACKW01000029	1682	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00035, whole genome shotgun sequence	ACKW01000030	879	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00036, whole genome shotgun sequence	ACKW01000031	503	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00039, whole genome shotgun sequence	ACKW01000032	1708	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00040, whole genome shotgun sequence	ACKW01000033	2746	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00046, whole genome shotgun sequence	ACKW01000034	590	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00060, whole genome shotgun sequence	ACKW01000035	5601	585199	*



Mobiluncus mulieris

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00116, whole genome shotgun sequence	ACKW01000036	98839	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00117, whole genome shotgun sequence	ACKW01000037	7856	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00118, whole genome shotgun sequence	ACKW01000038	88476	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00119, whole genome shotgun sequence	ACKW01000039	1615	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00120, whole genome shotgun sequence	ACKW01000040	10112	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00121, whole genome shotgun sequence	ACKW01000041	95526	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00122, whole genome shotgun sequence	ACKW01000042	5324	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00123, whole genome shotgun sequence	ACKW01000043	6074	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00124, whole genome shotgun sequence	ACKW01000044	2163	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00125, whole genome shotgun sequence	ACKW01000045	96248	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00126, whole genome shotgun sequence	ACKW01000046	41760	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00127, whole genome shotgun sequence	ACKW01000047	2847	585199	*



Mobiluncus mulieris

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00128, whole genome shotgun sequence	ACKW01000048	135195	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00129, whole genome shotgun sequence	ACKW01000049	1564	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00130, whole genome shotgun sequence	ACKW01000050	4651	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00131, whole genome shotgun sequence	ACKW01000051	47679	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00136, whole genome shotgun sequence	ACKW01000052	218309	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00137, whole genome shotgun sequence	ACKW01000053	33225	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00138, whole genome shotgun sequence	ACKW01000054	72465	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00139, whole genome shotgun sequence	ACKW01000055	243384	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00140, whole genome shotgun sequence	ACKW01000056	1422	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00141, whole genome shotgun sequence	ACKW01000057	2276	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00142, whole genome shotgun sequence	ACKW01000058	3030	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00143, whole genome shotgun sequence	ACKW01000059	1200	585199	*



Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00144, whole genome shotgun sequence	ACKW01000060	4153	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00149, whole genome shotgun sequence	ACKW01000061	598	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00153, whole genome shotgun sequence	ACKW01000062	568	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00158, whole genome shotgun sequence	ACKW01000063	1079	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00159, whole genome shotgun sequence	ACKW01000064	775	585199	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Mobiluncus mulieris ATCC 35243 contig00161, whole genome shotgun sequence	ACKW01000065	1140	585199	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mobiluncus mulieris 16S-23S ribosomal RNA intergenic spacer, partial sequence	AF385928	473	585199	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Mobiluncus mulieris partial 16S rRNA gene, strain CCUG 20071T	AJ318410	1404	2052	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Mobiluncus mulieris 16S rRNA (part.)	X53187	1356	585199	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	M.mulieris 16S rRNA gene	X82602	369	585199	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	M.mulieris 16S rRNA gene	X86004	331	585199	*

Strain availability

Ref.: 17992 **Culture collection no.** DSM 25311, ATCC 35243, CCUG 17763, CCUG 20071, LMG 7787, NCTC 11658

Ref.: 17992 **Strain history** <- LMG <- CCUG <- NCTC <- C. A. Spiegel, Medical College of Wisconsin, USA

Associated Passport(s) in StrainInfo

Ref.: 20218	15158 - http://www.straininfo.net/strains/15158
Ref.: 20218	15159 - http://www.straininfo.net/strains/15159
Ref.: 20218	15160 - http://www.straininfo.net/strains/15160
Ref.: 20218	15157 - http://www.straininfo.net/strains/15157
Ref.: 20218	15161 - http://www.straininfo.net/strains/15161

References

- [Ref.: 17992](#) Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 25311
- [Ref.: 20215](#) D.Gleim, M.Kracht, N.Weiss et. al.: Prokaryotic Nomenclature Up-to-date - compilation of all names of Bacteria and Archaea, validly published according to the Bacteriological Code since 1. Jan. 1980, and validly published nomenclatural changes since.
- [Ref.: 20218](#) Verslyppe, B., De Smet, W., De Baets, B., De Vos, P., Dawyndt P. StrainInfo introduces electronic passports for microorganisms.. Syst Appl Microbiol. 37: 42-50 2014 (10.1016/j.syapm.2013.11.002, 24321274)
- [Ref.: 22975](#) Carol A. Spiegel, Marilyn Roberts Mobiluncus gen. nov., Mobiluncus curtisii subsp. curtisii sp. nov., Mobiluncus curtisii subsp. holmesii subsp. nov., and Mobiluncus mulieris sp. nov., Curved Rods from the human Vagina. IJSEM 34: 177-184 1984 (10.1099/00207713-34-2-177, None)
- [Ref.: 47098](#) Culture Collection University of Gothenburg (CCUG); Curators of the CCUG; CCUG 20071

*** These References are textmined**

[back to top](#)