

Airway chronic colonization by *Achromobacter xylosoxidans* in Cystic Fibrosis patients is not sustained by their domestic environment

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Supplementary table Description of the totality of performed samples in the 3 household of the patients chronically colonized by *Achromobacter xylosoxidans*.

Obtained results were described for the positive *Achromobacter* specific PCR samples (1). Obtained colonies morphologically similar to *Achromobacter* on the specific medium were identified by Matrix Assisted Laser Desorption Ionisation - Time Of Flight (MALDI-TOF); w = weak specific PCR results; "-" = Samples for which any *Achromobacter* or any associated bacteria were identified. gen.= genogroupe; O: *Ochrobactrum*; P: *Pseudomonas*; A: *Agrobacterium*; S: *Stenotrophomonas*; Ps: *Pseudochochobactrum*; Ac: *Acinetobacter*

Table 1 Description of the *Achromobacter* specific-PCR positive samples among the 80 samples of the Patient 5 house

Number	Room	Isolation source	PCR (1)	<i>Achromobacter</i> spp. / MLST	Associated bacteria / MALDI-TOF	
3		Coffee machine 2	+	-	<i>O. anthropi</i> , <i>Ochrobactrum</i> sp.	
5		Sponge	+	-	-	
8		Sink grill	+	-	<i>P. putida</i> , <i>O. grignonense</i> , <i>Ps. asaccharolyticum</i> , <i>A. radiobacter</i>	
10		Sink faucet handle	+	-	<i>P. putida</i> , <i>B. diminuta</i> , <i>A. radiobacter</i> , <i>Ochrobactrum</i> sp.	
11	Kitchen	Sink siphon water	+	<i>A. marplatensis</i> (ST 354)	<i>Ochrobactrum</i> sp.	
13		Worktop	+	-	<i>O. grignonense</i> , <i>O. anthropi</i> , <i>Ochrobactrum</i> sp.	
14		Kitchen floor	+	-	-	
15		Table	+	-	<i>O. grignonense</i> , <i>O. anthropi</i> , <i>Ps. asaccharolyticum</i>	
16		Refrigerator handle	+	-	-	
17		Refrigerator drain	+	-	-	
21		Restroom 1	Flush water	+	-	-
22	Toilet bowl water		+	-	<i>Agrobacterium</i> sp.	
24	Restroom 2	Toilet bowl water	+	-	<i>O. grignonense</i> , <i>A. radiobacter</i> , <i>Pseudomonas</i> sp.	
25		Flush water	+	-	-	
26		Toilet bowl surface	+	-	<i>O. grignonense</i> , <i>A. radiobacter</i>	
36		Shower floor	+	-	<i>O. anthropi</i>	
56	Bathroom 1	Washing machine drain	+	<i>A. mucicolens</i> (ST 355)	<i>Bordetella</i> sp., <i>S. maltophilia</i> , <i>Ochrobactrum</i> sp.	
57		Washing machine water	+	-	<i>O. anthropi</i>	
58		Bath mat	+	<i>A. spanius</i> (ST 356)	-	
46	Bathroom 2	Overflow of the sink	w	-	-	
48		Sink siphon water	+	-	-	
50		1st flush sink water	+	<i>A. xylosoxidans</i> (ST 175)	<i>A. radiobacter</i>	
51		2nd flush sink water	+	-	-	
60		Cover	+	-	<i>Ochrobactrum</i> sp., <i>A. radiobacter</i>	
61	Living room	TV remote control	w	-	-	
63		Window ventilation	w	-	-	
64	Other	tumble dryer reservoir	+	<i>A. xylosoxidans</i> (ST 175)	-	
66		Vacuum cleaner bag	+	-	-	
71		Floor cloth bucket water		+	<i>A. xylosoxidans</i> (ST 175)	<i>O. anthropi</i> , <i>O. grignonense</i> , <i>Ochrobactrum</i> sp.
72				+	<i>A. xylosoxidans</i> (ST 169)	<i>Ochrobactrum</i> sp.
74	Garden	Vegetable garden soil	+	<i>A. xylosoxidans</i> (ST 175)	-	
75			+	<i>A. mucicolens</i> (ST 357)	-	
76			+	<i>A. mucicolens</i> (ST 358)	-	
77	Garden	Plants + roots	+	-	<i>A. radiobacter</i>	
78		Garden soil	+	-	<i>Pseudomonas</i> sp.	
77		Water in plastic hut	+	-	<i>P. putida</i> , <i>A. radiobacter</i>	
78		Clover + nodules	+	-	-	
Total	8		35	8 positive samples / 10 strains: <i>A. xylosoxidans</i> (n=5), <i>A. mucicolens</i> (n=3), <i>A. marplatensis</i> (n=2), <i>A. spanius</i> (n=1)	20 samples / 7 genus / 40 strains: <i>Ochrobactrum</i> spp. (n=19), <i>Agrobacterium</i> spp. (n=9), <i>Pseudomonas</i> spp. (n=6), <i>Pseudochochobactrum</i> spp. (n=3), <i>Bordetella</i> spp. (n=1), <i>Stenotrophomonas</i> spp. (n=1), <i>Brevundimonas</i> spp. (n=1)	

PCR-negative samples

Kitchen: tea towel, coffee machine 1, hand soap, garbage, sink faucet flow aerator, inside the sink, dishwasher drain, dishwasher buttons, vegetable crisper of the refrigerator, 1st flush sink water, fly catcher band. **Restroom 1:** toilet bowl. **Bathroom 1:** faucet handle, 1st flush and 2nd flush sink water, 1st flush and 2nd flush shower water, showerhead, shower tablet, shower faucet handle, shower curtain, wet wall, towel. **Bathroom 2:** bidet flow aerator, 1st flush and 2nd flush bidet water, towel, anti-slip mat in bathtub, floor, showerhead, ventilation grill, sink faucet flow aerator, sink faucet handle, 1st flush showerhead water, 1st and 2nd flush shower faucet water. **Other:** cumulus wet zone, computer keyboard, cat croquettes, cat water bowl, cat mouth, firewood. **Garden:** swimming pool pump water, porcelain pot stagnant water.

Table 2 Description of the *Achromobacter* specific-PCR positive samples among the 74 samples of the Patient 12 house

Number	Room	Isolation source	PCR (1)	<i>Achromobacter</i> spp. / MLST	Associated bacteria / MALDI-TOF
4		Worktop	+	-	<i>A. radiobacter</i> , <i>Ac. ursingii</i>
6		Overflow of the sink	+	-	<i>A. radiobacter</i> , <i>P. putida</i>
9		Sink siphon water	+	-	<i>A. radiobacter</i> , <i>Ac.ursingii</i> , <i>Ochrobactrum</i> sp., <i>P. nitroreducens</i>
11		Sponge	+	-	<i>A. radiobacter</i> , <i>Pseudomonas</i> sp.
13		Floor	+	-	-
17	Kitchen	Sink grill	+	-	-
25		Inside the Microwave	+	-	-
26		Washing machine drain	+	<i>A. aegrifaciens</i> (ST 143)	<i>Bordetella</i> sp., <i>O. anthropi</i> , <i>A. radiobacter</i>
27		Washing machine water	+	-	<i>O. anthropi</i> , <i>A. radiobacter</i>
69		1st flush sink water	+	-	<i>A. radiobacter</i>
70		2nd flush sink water	+	-	-
30	Other	Green plant soil	w	-	-
39		Bird droppings	w	-	-
40		Seat of the sofa	+	-	-
41	Living room	Sofa headrest	w	-	-
45		Floor	+	-	<i>Pseudomonas</i> sp.
47	Restroom	Floor	+	-	-
71		Toilet bowl water	+	-	<i>A. radiobacter</i>
49		Shower siphon	+	<i>A. mucicolens</i> (ST 359)	<i>P. nitroreducens</i> , <i>Pseudomonas</i> sp., <i>Ochrobactrum</i> sp.
50		Sink siphon water	+	-	<i>P. nitroreducens</i>
55	Bathroom	Sink grill	+	-	Bactérie du groupe <i>Pseudomonas putida</i>
61		Toothbrush glass	+	<i>A. mucicolens</i> (ST 349) <i>A. mucicolens</i> (ST 349) <i>A. mucicolens</i> (ST 349)	<i>A. radiobacter</i>
Total	5		22	3 samples / 5 strains : <i>A. mucicolens</i> (n=4), <i>A. aegrifaciens</i> (n=1)	13 samples / 5 genus / 24 strains: <i>Agrobacterium</i> spp. (n=9), <i>Pseudomonas</i> spp. (n=8), <i>Ochrobactrum</i> spp. (n=4), <i>Acinetobacter</i> spp. (n=2), <i>Bordetella</i> spp. (n=1)

PCR-negative samples

Kitchen: coffee machine, soap recipient, garbage, tea towels, sink faucet handle, inside and outside the sink faucet flow aerator, surface inside the sink, dishwasher drain, dishwasher buttons, dish brush, vegetable crisper of the refrigerator, refrigerator drain, refrigerator handle, aeration grill, table, extractor hood. **Other:** green plant leaf, bed blanket, computer keyboard, mop and mop bucket swabbing, birds water, exterior and interior door handle. **Living room:** TV remote control, coffee table, wall. **Restroom:** toilet bowl, floor. **Bathroom:** towel, liquide soap, overflow of the sink, sink faucet handle, shower tray grill, loofah, sink intern surface, light switch.

Table 3 Description of the *Achromobacter* specific-PCR positive samples among the 119 samples of the Patient 2 house

Number	Room	Isolation source	PCR (1)	<i>Achromobacter</i> spp. / MLST	Associated bacteria / MALDI-TOF
16		Bathub overflow	+	-	<i>Bordetella</i> sp., <i>Agrobacterium</i> sp.
17		Toothbrush glass	+	-	-
19		Left sink siphon water	+	-	<i>Bordetella</i> sp., <i>A. radiobacter</i>
20	Bathroom	Right sink siphon water	+	<i>A. aegrifaciens</i> (ST 350) <i>A. aegrifaciens</i> (ST 350)	<i>A. radiobacter</i> , <i>P. nitroreducens</i>
21		Shower siphon	+	-	<i>P. putida</i> , <i>Pseudomonas</i> sp.
29		Floor	+	-	-
31		Bath mat	+	-	<i>Pseudomonas</i> sp.
35		Sink siphon swab	+	-	-
38	Restroom	Toilet bowl	+	-	<i>Ochrobactrum</i> sp., <i>Agrobacterium</i> sp.
118		Toilet bowl water	+	-	<i>Bordetella</i> sp., <i>O. grignonense</i> , <i>A. radiobacter</i>
53		Sink grill	+	-	<i>O. grignonense</i> , <i>Ochrobactrum</i> sp., <i>Agrobacterium</i> sp.
60	Kitchen	Right sink siphon water	+	-	<i>S. maltophilia</i> , <i>Bordetella</i> sp.
61		Left sink siphon water	+	-	<i>S. maltophilia</i> , <i>O. grignonense</i>
64		Green plant soil (entry side)	+	-	-
66		Green plant soil (Kitchen side)	+	-	-
68	Living room	Green plant soil (Living room)	+	-	<i>Bordetella petrii</i>
70		Sofa	+	-	-
79		Floor cloth water	+	-	-
82		Floor cloth	+	-	-
83	Cellar	Washing machine drain	+	-	<i>Bordetella</i> sp.
84		Washing machine water	+	-	<i>A. radiobacter</i>
86		Tumble dryer reservoir	+	-	-
92		Swimming pool robot roller	+	-	-
95		Swimming pool robot hose	+	-	<i>P. koreensis</i>
96		Rain gauge	+	-	-
97		Inside the water hose	+	<i>A. animicus</i> (ST 360)	<i>Bordetella</i> sp., <i>Pseudomonas</i> sp.
100		Outdoor Mop	+	-	<i>A. radiobacter</i> , <i>Pseudomonas</i> sp.
101	Garden	Garden plant	+	<i>A. spanius</i> (ST 351) <i>Achromobacter</i> gen. 9 (ST 352)	-
103		Water in bucket	+	-	<i>Ochrobactrum</i> sp.
104		Flowerpot 1 soil	+	-	<i>A. radiobacter</i> , <i>Pseudomonas</i> sp.
105		Flowerpot 2 soil	+	-	-
106		Flowerpot 3 soil	+	<i>A. mucicolens</i> (ST 353)	<i>A. radiobacter</i>
116		1st flush outdoor faucet	+	-	-
117		2nd flush outdoor faucet	+	-	-
114	Bedroom	Central steam irons water	+	-	-
Total	7		35	4 samples / 6 strains: <i>A. aegrifaciens</i> (n=2), <i>A. animicus</i> (n=1), <i>A. spanius</i> (n=1), <i>A. mucicolens</i> (n=1), <i>Achromobacter</i> gen. 9 (n=1)	19 samples / 5 genus / 35 strains: <i>Agrobacterium</i> spp. (n=10), <i>Pseudomonas</i> spp. (n=8), <i>Ochrobactrum</i> spp. (n=8), <i>Bordetella</i> spp. (n=7), <i>Stenotrophomonas maltophilia</i> (n=2)

PCR-negative samples

Bathroom: sinks and shower faucet handle, 1st flush and 2nd flush sink water, 1st flush showerhead water, 1st and 2nd flush shower faucet water, overflow of the sinks, sinks and shower faucets flow aerator, showerhead, intern surface of the bathtub, soap, towel, anti-slip mat in bathtub, garbage. **Restroom:** 1st flush and 2nd flush sink water, sink grill, sink faucets flow aerator, hand towel. **Kitchen:** coffee machine, garbage, floor, sponge, inside and outside the sink faucet flow aerator, overflow of the sink, surface inside the sink, dishwasher drain, dishwasher buttons, vegetable crisper of the refrigerator, refrigerator drain, refrigerator handle, 1st flush and 2nd flush sink water, Inside the Microwave, worktops, water ice in the freezer, tap water in a bottle. **Living room:** green plants leaves, plant water reservoir, table, coffee table, floor, TV buttons, TV remote control, radiator, reversible air conditioner grill, pellets for fireplaces. **Cellar:** cat croquettes, cat water bowl, cat's paw, cat hair, inside the dryer, hands hydro-alcoholic solution, liquide soap, dishwashing liquid. **Garden:** swimming pool tarpaulin and skimmer swabbing, swimming pool water, biofilm on a ball, wet pellets for fireplaces, water in a bucket, garden soil, window sill.