Sarah Vreugde

List of Publications by Year in Descending Order

129 papers	2,715 citations	28 h-index	47 g-index
136 ext. papers	3,415 ext. citations	5.9 avg, IF	5.09 L-index

#	Paper	IF	Citations
129	Prophage: a crucial catalyst in infectious disease modulation.. *Lancet Microbe, The*, **2022**, 3, e162-e163	22.2	1
128	Effect of breathing profiles on nebuliser drug delivery targeting the paranasal sinuses in a post-operative nasal cavity. *Journal of Aerosol Science*, **2022**, 161, 105913	4.3	1
127	In Vitro safety and anti-bacterial efficacy assessment of Acriflavine.. *Allergy: European Journal of Allergy and Clinical Immunology*, **2022**,	9.3	
126	Efficacy and Safety of Novel Beta-Chitin Patches as Haemostat in Rat Vascular and Neurosurgical Model.. *Frontiers in Surgery*, **2022**, 9, 830364	2.3	
125	Genomic characterization of three bacteriophages targeting multidrug resistant clinical isolates of Escherichia, Klebsiella and Salmonella.. *Archives of Microbiology*, **2022**, 204, 334	3	0
124	APTC-C-SA01: A Novel Bacteriophage Cocktail Targeting Staphylococcus aureus and MRSA Biofilms. *International Journal of Molecular Sciences*, **2022**, 23, 6116	6.3	1
123	Prophages encoding human immune evasion cluster genes are enriched in isolated from chronic rhinosinusitis patients with nasal polyps.. *Microbial Genomics*, **2021**, 7,	4.4	2
122	TLR Signals in Epithelial Cells in the Nasal Cavity and Paranasal Sinuses.. *Frontiers in Allergy*, **2021**, 2, 780425	6	0
121	In vitro and in vivo evaluation of probiotic properties of Corynebacterium accolens isolated from the human nasal cavity. *Microbiological Research*, **2021**, 255, 126927	5.3	
120	Green synthesized colloidal silver is devoid of toxic effects on primary human nasal epithelial cells in vitro. *Food and Chemical Toxicology*, **2021**, 157, 112606	4.7	0
119	Trimellitic anhydride facilitates transepithelial permeability disrupting tight junctions in sinonasal epithelial cells. *Toxicology Letters*, **2021**, 353, 27-33	4.4	1
118	The potential of chitosan-based haemostats for use in neurosurgical setting - Literature review. *Journal of Clinical Neuroscience*, **2021**, 94, 128-134	2.2	0
117	Tertiary Lymphoid Organs: A Primer for Otolaryngologists. *Laryngoscope*, **2021**, 131, 1697-1703	3.6	0
116	Fluticasone Propionate Suppresses Poly(I:C)-Induced ACE2 in Primary Human Nasal Epithelial Cells. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 655666	5.9	4
115	Overcoming bacteriophage insensitivity in Staphylococcus aureus using clindamycin and azithromycinat subinhibitory concentrations. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, 76, 3446-3458	9.3	1
114	Association between mucosal barrier disruption by Pseudomonas aeruginosa exoproteins and asthma in patients with chronic rhinosinusitis. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, 76, 3459-3469	9.3	6
113	Colloidal silver combating pathogenic Pseudomonas aeruginosa and MRSA in chronic rhinosinusitis. *Colloids and Surfaces B: Biointerfaces*, **2021**, 202, 111675	6	3

112	Cytokine-Induced Modulation of SARS-CoV2 Receptor Expression in Primary Human Nasal Epithelial Cells. *Pathogens*, **2021**, 10,	4.5	2
111	Optimal primer selection for sinus microbiome profiling: A comparative analysis of the V1-V3 and V3-4 16S target regions. *International Forum of Allergy and Rhinology*, **2021**, 11, 1698-1702	6.3	
110	Proteomic analysis of nasal mucus samples of healthy patients and patients with chronic rhinosinusitis. *Journal of Allergy and Clinical Immunology*, **2021**, 147, 168-178	11.5	10
109	Tween 80 and its derivative oleic acid promote the growth of Corynebacterium accolens and inhibit Staphylococcus aureus clinical isolates. *International Forum of Allergy and Rhinology*, **2021**, 11, 810-813	6.3	0
108	Role of intracellular zinc in molecular and cellular function in allergic inflammatory diseases. *Allergology International*, **2021**, 70, 190-200	4.4	8
107	Prevention of adhesions post-abdominal surgery: Assessing the safety and efficacy of Chitogel with Deferiprone in a rat model. *PLoS ONE*, **2021**, 16, e0244503	3.7	1
106	Metallothionein-3 is a clinical biomarker for tissue zinc levels in nasal mucosa. *Auris Nasus Larynx*, **2021**, 48, 890-897	2.2	1
105	Has Antimicrobial Activity against and Methicillin-Resistant Pathogens Isolated from the Sinonasal Niche of Chronic Rhinosinusitis Patients. *Pathogens*, **2021**, 10,	4.5	9
104	3D bioprinting of a cell-laden antibacterial polysaccharide hydrogel composite. *Carbohydrate Polymers*, **2021**, 264, 117989	10.3	14
103	Der p 1 Disrupts the Epithelial Barrier and Induces IL-6 Production in Patients With House Dust Mite Allergic Rhinitis.. *Frontiers in Allergy*, **2021**, 2, 692049	0	0
102	The effect of chemical and structural modifiers on the haemostatic process and cytotoxicity of the beta-chitin patch. *Scientific Reports*, **2021**, 11, 18577	4.9	
101	Preclinical Development of a Bacteriophage Cocktail for Treating Multidrug Resistant Infections. *Microorganisms*, **2021**, 9,	4.9	3
100	Converging 2D Nanomaterials and 3D Bioprinting Technology: State-of-the-Art, Challenges, and Potential Outlook in Biomedical Applications. *Advanced Healthcare Materials*, **2021**, 10, e2101439	10.1	2
99	Acoustic drug delivery to the maxillary sinus. *International Journal of Pharmaceutics*, **2021**, 606, 120927	6.5	5
98	Comparative antibacterial activity of 2D materials coated on porous-titania. *Journal of Materials Chemistry B*, **2021**, 9, 6412-6424	7.3	2
97	Association between viral infection and increased mucosal eosinophils and CD8 CD103 T cells in chronic rhinosinusitis. *International Forum of Allergy and Rhinology*, **2020**, 10, 978-980	6.3	
96	Staphylococcus aureus biofilm exoproteins are cytotoxic to human nasal epithelial barrier in chronic rhinosinusitis. *International Forum of Allergy and Rhinology*, **2020**, 10, 871-883	6.3	6
95	The international sinonasal microbiome study: A multicentre, multinational characterization of sinonasal bacterial ecology. *Allergy: European Journal of Allergy and Clinical Immunology*, **2020**, 75, 2037-2049	9.3	21

94	Prevention of peridural adhesions in spinal surgery: Assessing safety and efficacy of Chitogel with Deferiprone in a sheep model. *Journal of Clinical Neuroscience*, **2020**, 72, 378-385	2.2	1
93	Antibiotics Affect ROS Production and Fibroblast Migration in an Model of Sinonasal Wound Healing. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 110	5.9	5
92	In vitro safety evaluation of a povidone-iodine solution applied to human nasal epithelial cells. *International Forum of Allergy and Rhinology*, **2020**, 10, 1141-1148	6.3	17
91	Microbiotyping the Sinonasal Microbiome. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 137	5.9	8
90	A Novel Rat Model to Test Intra-Abdominal Anti-adhesive Therapy. *Frontiers in Surgery*, **2020**, 7, 12	2.3	3
89	Inhibition of and biofilms by quatsomes in low concentrations. *Experimental Biology and Medicine*, **2020**, 245, 34-41	3.7	5
88	The Microbiome of the Nasolacrimal System and Its Role in Nasolacrimal Duct Obstruction. *Ophthalmic Plastic and Reconstructive Surgery*, **2020**, 36, 80-85	1.4	5
87	Barrier disruptive effects of mucus isolated from chronic rhinosinusitis patients. *Allergy: European Journal of Allergy and Clinical Immunology*, **2020**, 75, 200-203	9.3	6
86	Safety and Tolerability of Bacteriophage Therapy for Chronic Rhinosinusitis Due to Staphylococcus aureus. *JAMA Otolaryngology - Head and Neck Surgery*, **2019**, 145, 723-729	3.9	62
85	Kappa-carrageenan sinus rinses reduce inflammation and intracellular Staphylococcus aureus infection in airway epithelial cells. *International Forum of Allergy and Rhinology*, **2019**, 9, 918-925	6.3	3
84	-Induced Barrier Disruption Correlates With Elastase Activity and Marks Chronic Rhinosinusitis Severity. *Frontiers in Cellular and Infection Microbiology*, **2019**, 9, 38	5.9	16
83	Inducing a Mucosal Barrier-Sparing Inflammatory Response in Laboratory-Grown Primary Human Nasal Epithelial Cells. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2019**, 80, e69	1	9
82	The presence of virus significantly associates with chronic rhinosinusitis disease severity. *Allergy: European Journal of Allergy and Clinical Immunology*, **2019**, 74, 1569-1572	9.3	7
81	Deferiprone has anti-inflammatory properties and reduces fibroblast migration in vitro. *Scientific Reports*, **2019**, 9, 2378	4.9	9
80	Spontaneous Regression of Swollen Submandibular Glands in IgG4-Related Disease.. *Allergy and Rhinology*, **2019**, 10, 2152656718816738	1.4	0
79	The effect of neutrophil serine proteases on human nasal epithelial cell barrier function. *International Forum of Allergy and Rhinology*, **2019**, 9, 1220-1226	6.3	14
78	Extent of maxillary sinus surgery and its effect on instrument access, irrigation penetration, and disease clearance. *International Forum of Allergy and Rhinology*, **2019**, 9, 1097-1104	6.3	9
77	Sub-Inhibitory Clindamycin and Azithromycin reduce Exoprotein Induced Toxicity, Inflammation, Barrier Disruption and Invasion. *Journal of Clinical Medicine*, **2019**, 8,	5.1	10

76	Manuka honey sinus irrigations in recalcitrant chronic rhinosinusitis: phase 1 randomized, single-blinded, placebo-controlled trial. *International Forum of Allergy and Rhinology*, **2019**, 9, 1470-1477	6.3	12
75	Effect of commercial nasal steroid preparation on bacterial growth. *International Forum of Allergy and Rhinology*, **2019**, 9, 766-775	6.3	4
74	Safety and efficacy of a bacteriophage cocktail in an in vivo model of Pseudomonas aeruginosa sinusitis. *Translational Research*, **2019**, 206, 41-56	11	19
73	In vitro characteristics of an airway barrier-disrupting factor secreted by Staphylococcus aureus. *International Forum of Allergy and Rhinology*, **2019**, 9, 187-196	6.3	3
72	Role of fungi in chronic rhinosinusitis through ITS sequencing. *Laryngoscope*, **2018**, 128, 16-22	3.6	17
71	Staphylococcus Aureus V8 protease disrupts the integrity of the airway epithelial barrier and impairs IL-6 production in vitro. *Laryngoscope*, **2018**, 128, E8-E15	3.6	26
70	Primary human nasal epithelial cells: a source of poly (I:C) LMW-induced IL-6 production. *Scientific Reports*, **2018**, 8, 11325	4.9	16
69	Staphylococcus aureus small colony variants: Prevalence in chronic rhinosinusitis and induction by antibiotics. *Allergy: European Journal of Allergy and Clinical Immunology*, **2018**, 73, 2403-2405	9.3	2
68	Topical Colloidal Silver for the Treatment of Recalcitrant Chronic Rhinosinusitis. *Frontiers in Microbiology*, **2018**, 9, 720	5.7	10
67	Safety and Efficacy of Topical Chitogel- Deferiprone-Gallium Protoporphyrin in Sheep Model. *Frontiers in Microbiology*, **2018**, 9, 917	5.7	8
66	Naive and effector B-cell subtypes are increased in chronic rhinosinusitis with polyps. *American Journal of Rhinology and Allergy*, **2018**, 32, 3-6	2.4	4
65	Bacteriophage effectively kills multidrug resistant Staphylococcus aureus clinical isolates from chronic rhinosinusitis patients. *International Forum of Allergy and Rhinology*, **2018**, 8, 406-414	6.3	21
64	Tertiary lymphoid organs: A□hovel target in patients with chronic rhinosinusitis. *Journal of Allergy and Clinical Immunology*, **2018**, 142, 1673-1676	11.5	6
63	from patients with chronic rhinosinusitis show minimal genetic association between polyp and non-polyp phenotypes. *BMC Ear, Nose and Throat Disorders*, **2018**, 18, 16	8	5
62	Comparative Viral Sampling in the Sinonasal Passages; Different Viruses at Different Sites. *Frontiers in Cellular and Infection Microbiology*, **2018**, 8, 334	5.9	8
61	Sirtuin-1 Controls Poly (I:C)-Dependent Matrix Metalloproteinase 9 Activation in Primary Human Nasal Epithelial Cells. *American Journal of Respiratory Cell and Molecular Biology*, **2018**, 59, 500-510	5.7	10
60	Mucosal zinc deficiency in chronic rhinosinusitis with nasal polyposis contributes to barrier disruption and decreases ZO-1. *Allergy: European Journal of Allergy and Clinical Immunology*, **2018**, 73, 2095-2097	9.3	14
59	Discordant frequencies of tissue-resident and circulating CD180-negative B cells in chronic rhinosinusitis. *International Forum of Allergy and Rhinology*, **2017**, 7, 609-614	6.3	3

58	A Topical Hydrogel with Deferiprone and Gallium-Protoporphyrin Targets Bacterial Iron Metabolism and Has Antibiofilm Activity. *Antimicrobial Agents and Chemotherapy*, **2017**, 61,	5.9	36
57	Taking the Silver Bullet Colloidal Silver Particles for the Topical Treatment of Biofilm-Related Infections. *ACS Applied Materials & Interfaces*, **2017**, 9, 21631-21638	9.5	30
56	Increased IL-13 expression is independently associated with neo-osteogenesis in patients with chronic rhinosinusitis. *Journal of Allergy and Clinical Immunology*, **2017**, 140, 1444-1448.e11	11.5	9
55	Nano-hemostats and a Pilot Study of Their Use in a Large Animal Model of Major Vessel Hemorrhage in Endoscopic Skull Base Surgery. *Journal of Neurological Surgery, Part B: Skull Base*, **2017**, 78, 215-221	1.5	
54	In vitro safety evaluation of human nasal epithelial cell monolayers exposed to carrageenan sinus wash. *International Forum of Allergy and Rhinology*, **2017**, 7, 1170-1177	6.3	17
53	Tertiary lymphoid organs in recalcitrant chronic rhinosinusitis. *Journal of Allergy and Clinical Immunology*, **2017**, 139, 1371-1373.e6	11.5	15
52	Identification of the Bacterial Reservoirs for the Middle Ear Using Phylogenic Analysis. *JAMA Otolaryngology - Head and Neck Surgery*, **2017**, 143, 155-161	3.9	22
51	Chronic Rhinosinusitis with Polyps Is Characterized by Increased Mucosal and Blood Th17 Effector Cytokine Producing Cells. *Frontiers in Physiology*, **2017**, 8, 898	4.6	7
50	Long-Term Safety of Topical Bacteriophage Application to the Frontal Sinus Region. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 49	5.9	29
49	Deferiprone and Gallium-Protoporphyrin Have the Capacity to Potentiate the Activity of Antibiotics in Small Colony Variants. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 280	5.9	32
48	Forms Multispecies Biofilm with : Effects on Antibiotic Susceptibility and Growth in Adverse Conditions. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 344	5.9	16
47	Activity of Bacteriophages in Removing Biofilms of Isolates from Chronic Rhinosinusitis Patients. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 418	5.9	88
46	Subepithelial inflammatory load and basement membrane thickening in refractory chronic rhinosinusitis with nasal polyposis: a histopathological study. *International Forum of Allergy and Rhinology*, **2016**, 6, 248-55	6.3	26
45	Mind "De GaPP": in vitro efficacy of deferiprone and gallium-protoporphyrin against Staphylococcus aureus biofilms. *International Forum of Allergy and Rhinology*, **2016**, 6, 737-43	6.3	29
44	T regulatory and Th17 cells in chronic rhinosinusitis with polyps. *International Forum of Allergy and Rhinology*, **2016**, 6, 826-34	6.3	13
43	Th17 Cytokines Disrupt the Airway Mucosal Barrier in Chronic Rhinosinusitis. *Mediators of Inflammation*, **2016**, 2016, 9798206	4.3	43
42	Reduced Innate Immune Response to a Small Colony Variant Compared to Its Wild-Type Parent Strain. *Frontiers in Cellular and Infection Microbiology*, **2016**, 6, 187	5.9	20
41	Innate lymphoid type 2 cells in chronic rhinosinusitis. *Current Opinion in Allergy and Clinical Immunology*, **2016**, 16, 7-12	3.3	4

40	The bacterial microbiome in chronic rhinosinusitis: Richness, diversity, postoperative changes, and patient outcomes. *American Journal of Rhinology and Allergy*, **2016**, 30, 37-43	2.4	42
39	Association of intracellular Staphylococcus aureus with prognosis in chronic rhinosinusitis. *International Forum of Allergy and Rhinology*, **2016**, 6, 792-9	6.3	15
38	The microbiome of otitis media with effusion. *Laryngoscope*, **2016**, 126, 2844-2851	3.6	48
37	Fighting sinus-derived Staphylococcus aureus biofilms in vitro with a bacteriophage-derived muralytic enzyme. *International Forum of Allergy and Rhinology*, **2016**, 6, 349-55	6.3	17
36	An in vivo safety and efficacy demonstration of a topical liposomal nitric oxide donor treatment for Staphylococcus aureus biofilm-associated rhinosinusitis. *Translational Research*, **2015**, 166, 683-92	11	21
35	TLR response pathways in NuLi-1 cells and primary human nasal epithelial cells. *Molecular Immunology*, **2015**, 68, 476-83	4.3	15
34	Staphylococcus aureus impairs the airway epithelial barrier in vitro. *International Forum of Allergy and Rhinology*, **2015**, 5, 551-6	6.3	39
33	Staphylococcus aureus biofilms induce apoptosis and expression of interferon-□interleukin-10, and interleukin-17A on human sinonasal explants. *American Journal of Rhinology and Allergy*, **2015**, 29, 23-8	2.4	12
32	Role of crushed skeletal muscle extract in hemostasis. *International Forum of Allergy and Rhinology*, **2015**, 5, 431-4	6.3	4
31	Distribution and Inhibition of Liposomes on Staphylococcus aureus and Pseudomonas aeruginosa Biofilm. *PLoS ONE*, **2015**, 10, e0131806	3.7	41
30	Quatsomes for the treatment of Staphylococcus aureus biofilm. *Journal of Materials Chemistry B*, **2015**, 3, 2770-2777	7.3	19
29	Topical colloidal silver as an anti-biofilm agent in a Staphylococcus aureus chronic rhinosinusitis sheep model. *International Forum of Allergy and Rhinology*, **2015**, 5, 283-8	6.3	15
28	Sinonasal microbiome sampling: a comparison of techniques. *PLoS ONE*, **2015**, 10, e0123216	3.7	40
27	Colloidal silver: a novel treatment for Staphylococcus aureus biofilms?. *International Forum of Allergy and Rhinology*, **2014**, 4, 171-5	6.3	21
26	Safety and efficacy of topical bacteriophage and ethylenediaminetetraacetic acid treatment of Staphylococcus aureus infection in a sheep model of sinusitis. *International Forum of Allergy and Rhinology*, **2014**, 4, 176-86	6.3	38
25	Methylglyoxal-augmented manuka honey as a topical anti-Staphylococcus aureus biofilm agent: safety and efficacy in an in vivo model. *International Forum of Allergy and Rhinology*, **2014**, 4, 187-95	6.3	48
24	The fungal microbiome in chronic rhinosinusitis: richness, diversity, postoperative changes and patient outcomes. *International Forum of Allergy and Rhinology*, **2014**, 4, 259-65	6.3	40
23	Probiotic manipulation of the chronic rhinosinusitis microbiome. *International Forum of Allergy and Rhinology*, **2014**, 4, 309-14	6.3	39

22	Association between group 2 innate lymphoid cells enrichment, nasal polyps and allergy in chronic rhinosinusitis. *Allergy: European Journal of Allergy and Clinical Immunology*, **2014**, 69, 1154-61	9.3	123
21	Bacteriophage reduces biofilm of Staphylococcus aureus ex vivo isolates from chronic rhinosinusitis patients. *American Journal of Rhinology and Allergy*, **2014**, 28, 3-11	2.4	45
20	Cousins, siblings, or copies: the genomics of recurrent Staphylococcus aureus infections in chronic rhinosinusitis. *International Forum of Allergy and Rhinology*, **2014**, 4, 953-60	6.3	18
19	Safety evaluation of a sinus surfactant in an explant-based cytotoxicity assay. *Laryngoscope*, **2014**, 124, 369-72	3.6	7
18	Early and late complications of endoscopic hemostatic techniques following different carotid artery injury characteristics. *International Forum of Allergy and Rhinology*, **2014**, 4, 651-7	6.3	26
17	Small-colony variants and phenotype switching of intracellular Staphylococcus aureus in chronic rhinosinusitis. *Allergy: European Journal of Allergy and Clinical Immunology*, **2014**, 69, 1364-71	9.3	31
16	Corticosteroids directly reduce Staphylococcus aureus biofilm growth: an in vitro study. *Laryngoscope*, **2014**, 124, 602-7	3.6	20
15	Liposome-encapsulated ISMN: a novel nitric oxide-based therapeutic agent against Staphylococcus aureus biofilms. *PLoS ONE*, **2014**, 9, e92117	3.7	32
14	A human nasal explant model to study Staphylococcus aureus biofilm in vitro. *International Forum of Allergy and Rhinology*, **2013**, 3, 556-62	6.3	11
13	Gene expression differences in nitric oxide and reactive oxygen species regulation point to an altered innate immune response in chronic rhinosinusitis. *International Forum of Allergy and Rhinology*, **2013**, 3, 193-8	6.3	10
12	Staphylococcus aureus biofilm activates the nucleotide-binding oligomerization domain containing 2 (Nod2) pathway and proinflammatory factors on a human sinonasal explant model. *International Forum of Allergy and Rhinology*, **2013**, 3, 877-84	6.3	9
11	Intracellular Staphylococcus aureus: the Trojan horse of recalcitrant chronic rhinosinusitis?. *International Forum of Allergy and Rhinology*, **2013**, 3, 261-6	6.3	49
10	Prevention of false positive binding during immunofluorescence of Staphylococcus aureus infected tissue biopsies. *Journal of Immunological Methods*, **2012**, 384, 111-7	2.5	8
9	Identifying intracellular Staphylococcus aureus in chronic rhinosinusitis: a direct comparison of techniques. *American Journal of Rhinology and Allergy*, **2012**, 26, 444-9	2.4	13
8	Nuclear myosin VI enhances RNA polymerase II-dependent transcription. *Molecular Cell*, **2006**, 23, 749-55	17.6	112
7	SPPL2a and SPPL2b promote intramembrane proteolysis of TNFalpha in activated dendritic cells to trigger IL-12 production. *Nature Cell Biology*, **2006**, 8, 843-8	23.4	160
6	USH3A transcripts encode clarin-1, a four-transmembrane-domain protein with a possible role in sensory synapses. *European Journal of Human Genetics*, **2002**, 10, 339-50	5.3	136
5	Beethoven, a mouse model for dominant, progressive hearing loss DFNA36. *Nature Genetics*, **2002**, 30, 257-8	36.3	207

4	From fliesReyes to our ears: mutations in a human class III myosin cause progressive nonsyndromic hearing loss DFNB30. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 7518-23	11.5	202
3	High frequency of the deafness-associated 167delT mutation in the connexin 26 (GJB2) gene in Israeli Ashkenazim. *American Journal of Medical Genetics Part A*, **1999**, 86, 499-500		62
2	The international sinonasal microbiome study (ISMS): a multi-centre, multi-national collaboration characterising the microbial ecology of the sinonasal cavity		2
1	Microbiotyping the sinonasal microbiome		1