

Poster Presentations

(Monday-Thursday 2:00-4:00pm)

Poster Session I/Networking

Monday, November 14, 2022, 2:00 pm - 4:00 pm

Order	Control Number	Poster Board Number	Title	Author Block
1	2022-A-69-ASM-BIO	102	Impact of a human gut microbe on <i>Vibrio cholerae</i> host colonization through biofilm enhancement	W. Ng ¹ , K. Barrasso ¹ , D. Chac ² , M. Debela ³ , C. Geigel ⁴ , A. Steenhaut ¹ , A. Rivera Seda ¹ , C. Dunmire ² , F. Midani ⁵ , J. Yan ⁴ , A. Weil ² ; ¹ Tufts University School of Medicine, Boston, MA, ² University of Washington, Seattle, WA, ³ Mass General Hospital, Boston, MA, ⁴ Yale University, New Haven, CT, ⁵ Baylor College of Medicine, Houston, TX.
2	2022-A-73-ASM-BIO	103	Model for assessing the pH changes of <i>Streptococcus mutans</i> biofilms in real-time	M. Papangeli ¹ , D. Walsh ² , V. Chauhan ¹ , M. Perkins ¹ , V. Slomka ³ , J. Aylott ¹ , K. R. Hardie ¹ ; ¹ University of Nottingham, Nottingham, UNITED KINGDOM, ² University of Warwick, Coventry, UNITED KINGDOM, ³ Unilever R&D Port Sunlight,



				Bebington, UNITED KINGDOM.
3	2022-A-74-ASM-BIO		Genomic analyses of biofilm-forming and non-biofilm-forming <i>Escherichia coli</i> populations from meat processing environments	X. Yang , F. Tran, P. Zhang; Agriculture and Agri-Food Canada, Lacombe, AB, CANADA.
4	2022-A-76-ASM-BIO	104	Disrupting Biofilms by Targeting Response Regulator Proteins in Biowarfare Agent <i>Francisella tularensis</i> .	M. E. Milton , J. Cavanagh; East Carolina University, Greenville, NC.
5	2022-A-80-ASM-BIO	105	ANTIBIOTIC RESISTANCE TO CIPROFLOXACIN OF <i>STAPHYLOCOCCUS AUREUS</i> GROWN IN PLATELET CONCENTRATES	C. Paredes ¹ , S. Ramirez-Arcos ² ; ¹ University of Ottawa, Ottawa, ON, CANADA, ² Canadian Blood Services, Ottawa, ON, CANADA.
6	2022-A-100-ASM-BIO	106	<i>CANDIDA ALBICANS</i> MODULATES <i>STREPTOCOCCUS MUTANS</i> OVERGROWTH IN AN INTER-SPECIES BIOFILM MODEL	Z. Xiang ¹ , Y. Liu ¹ , A. Hara ² , H. Koo ¹ ; ¹ University of Pennsylvania, Philadelphia, PA, ² Indiana University School of Dentistry, Indianapolis, IN.
7	2022-A-104-ASM-BIO	107	NOVEL NANOHYBRID SYSTEM FOR TARGETING PATHOGENIC ORAL BIOFILMS <i>IN VIVO</i>	Y. Liu , Y. Huang, D. Cormode, H. Koo; University of Pennsylvania, Philadelphia, PA.
8	2022-A-75-ASM-BIO	108	IMPACT OF "DEEP CLEANING" SANITIZATION ON NATURAL BIOFILM COMMUNITIES AND THE SURVIVAL OF <i>Salmonella enterica</i>	R. Wang , J. M. Bosilevac; ARS, USDA, Clay Center, NE.



9	2022-A-78-ASM-BIO	109	Role of flagellar associated <i>fliL</i> in biofilm formation and host independency of <i>Bdellovibrio bacteriovorus</i>	A. Mookherjee ¹ , S. Pietrokovski ² , E. Jurkevitch ¹ ; ¹ The Hebrew University of Jerusalem, Rehovot, ISRAEL, ² Weizmann Institute of Science, Rehovot, ISRAEL.
10	2022-A-82-ASM-BIO	110	COMPARATIVE TRANSCRIPTOMIC STUDY OF UNTREATED AND ANTIBIOTIC-TREATED BIOFILM CELLS REVEALS GENES INVOLVED IN BIOFILM-SPECIFIC ANTIBIOTIC RESISTANCE IN CLINICAL STRAINS OF ACINETOBACTER BAUMANNII	A. Shenkutie ¹ , L. Polly ² ; ¹ St Paul's Hospital and Millennium Medical College, Addis Ababa, ETHIOPIA, ² The Hong kong Polytechnic University, Hong Kong, HONG KONG.
11	2022-A-83-ASM-BIO	111	INVASIVE NON-TYPHOIDAL <i>SALMONELLA</i> SEROVARS AND CHRONIC GALLBLADDER COLONIZATION	E. Vasicek , J. Gunn; Nationwide Children's Hospital, Columbus, OH.
12	2022-A-87-ASM-BIO	112	<i>In situ</i> physical treatment of biofilms: A novel approach for catheter salvage in central-line associated bloodstream infection (CLABSI).	J. VanEpps , J. Beckwith, S. VanAken, M. J. Solomon; University of Michigan, Ann Arbor, MI.
13	2022-A-88-ASM-BIO	113	PLASMID-MEDIATED COLISTIN RESISTANT MARKERS IN BIOFILM FORMING ESCAPE PATHOGENS	M. Abban , A. Isawumi, L. Mosi; University of Ghana, Legon, Accra, GHANA.
14	2022-A-89-ASM-BIO	114	The CRISPR-Cas system differentially regulates surface-attached and pellicle-biofilm in <i>Salmonella enterica</i> serovar Typhimurium	N. Sharma , A. Das, P. Raja, S. Marathe; Birla Institute of Technology and Science (BITS Pilani), Pilani, INDIA.

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15	2022-A-90-ASM-BIO	115	A GENOMIC GUIDE TO UNDERSTANDING BIOFILM FORMATION IN <i>STAPHYLOCOCCUS AUREUS</i> CLINICAL ISOLATES FROM EGYPT	A. Abouelfetouh ¹ , C. Putonti ² , A. Wolfe ² ; ¹ Alexandria University and Alamein International University, Alexandria, EGYPT, ² Loyola University Chicago, Chicago, IL.
16	2022-A-92-ASM-BIO	116	PROTEOSTASIS DISRUPTION LEADS TO COLLAPSE OF THE ARCHITECTURE OF <i>Bacillus subtilis</i> BIOFILMS	J. Matavacas , C. von Wachenfeldt; Lund University, Lund, SWEDEN.
17	2022-A-93-ASM-BIO	117	Synergistic Interactions In Multispecies Biofilms Formed By Surface Associated Dairy Microbial Contaminants	F. A. Sadiq ; Flanders Research Institute for Agriculture, Fisheries and Food (Belgium), Gent, BELGIUM.
18	2022-A-96-ASM-BIO	118	HETEROGENEITY IN THE ARCHITECTURE, CELL-MATRIX INTERACTIONS, AND ASSEMBLY DETERMINANTS OF <i>Bordetella pertussis</i> BIOFILMS ON PRIMARY HUMAN AIRWAY EPITHELIUM	J. L. Gutierrez-Ferman ¹ , A. R. Fullen ¹ , R. E. Rayner ¹ , S. Kim ¹ , P. Chen ² , P. Dubey ¹ , D. J. Wozniak ¹ , M. E. Peeples ² , E. Cormet-Boyaka ¹ , R. Deora ¹ ; ¹ The Ohio State University, Columbus, OH, ² Nationwide Children's Hospital, Columbus, OH.
19	2022-A-99-ASM-BIO	119	EXPLORING THE ROLE OF OUTER MEMBRANE VESICLES IN BIOFILM DISPERSION	S. Henske , J. Zuccalmaglio, A. N. Scarcella, C. Bibby, C. J. Light; Binghamton University, Binghamton, NY.



20	2022-A-118-ASM-BIO	121	EVALUATION OF THE EFFICACY OF SYNTHESIZED SILVER NANOPARTICLES ON BACTERIAL BIOFILMS OBTAINED FROM WATER AND POULTRY DRINKERS	S. O. Adebajo , A. E. Ojo, P. O. Bankole, A. K. Akintokun, J. D. Akinsanya; Federal University of Agriculture, Abeokuta, NIGERIA.
21	2022-A-129-ASM-BIO	122	<i>Vibrio parahaemolyticus</i> and <i>Vibrio vulnificus</i> Colonization on Plastics Influenced by Temperature and Strain Variability	R. Leighton , K. Correa Vélez, L. Xiong, A. Creech, K. Amirichetty, G. Anderson, G. Cai, R. Norman, A. Decho; University of South Carolina, Columbia, SC.
22	2022-A-145-ASM-BIO	123	PHAGE MOBILITY IN BIOFILMS TRANSFORMS THE FITNESS LANDSCAPE OF GENERALIST-SPECIALIST COMPETITIONS	E. L. Simmons , C. D. Nadell; Dartmouth College, Hanover, NH.
23	2022-A-184-ASM-BIO	124	SHORT-TERM CO-EVOLUTION OF <i>LACTOCOCCUS LACTIS</i> AND <i>LEUCONOSTOC MENSENTEROIDES</i> IN BIOFILM ACCELERATES VARIANT EMERGENCE AND COEXISTENCE	H. T. Kiese-walter ¹ , N. E. Henriksen ² , M. F. Hansen ¹ , J. Russel ¹ , J. Nesme ¹ , K. R. Foster ³ , B. Svensson ² , G. Øregaard ⁴ , J. Herschend ⁵ , M. Burmølle ¹ ; ¹ University of Copenhagen, Copenhagen, DENMARK, ² Technical University of Denmark, Kongens Lyngby, DENMARK, ³ University of Oxford, Oxford, UNITED KINGDOM, ⁴ Chr. Hansen A/S, Hørsholm, DENMARK, ⁵ Novozymes A/S, Bagsværd, DENMARK.

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24	2022-A-255-ASM-BIO	125	EFFECTS OF CHELATED COPPER TREATMENT ON THE MICROBIOME AND RESISTOME OF THE BIOFILM OF AN AQUACULTURE TANK	D. J. Bradshaw, II , C. Robinson, T. Bianchine, P. S. Wills; Florida Atlantic University, Fort Pierce, FL.
25	2022-A-271-ASM-BIO	126	CHANGES IN <i>PSEUDOMONAS AERUGINOSA</i> BIOFILM MATRIX COMPOSITION DUE TO ANAEROBIC GROWTH	K. Duong , M. Barrington, N. Fazio, C. Reichardt; Washington University in St. Louis, St. Louis, MO.
26	2022-A-283-ASM-BIO	127	BIOFILM AGGREGATES IN BIOSOLIDS CAN BE USED FOR GROUNDWATER BIOREMEDIATION	S. Saffari Ghandehari ¹ , J. Boyer ¹ , I. Van Benschoten ¹ , C. Hapeman ² , A. Torrents ¹ , B. Kjellerup ¹ ; ¹ University of Maryland, College Park, MD, ² United States Department of Agriculture, Beltsville, MD.
27	2022-A-354-ASM-BIO	128	ICE NUCLEATION ACTIVITY OF MICROPLASTICS	C. M. Foreman , C. J. Teska, M. Dieser; Montana State University, Bozeman, MT.
28	2022-A-381-ASM-BIO	129	Factors effecting <i>Neisseria gonorrhoeae</i> aggregation and biofilm formation	D. Stein , W. Song; University of Maryland, College Park, MD.
29	2022-A-385-ASM-BIO	130	Hydrogel-Based Synthetic Soil Aggregates Co-Encapsulating Solid Carbon Substrates and Bacteria	P. Candry , B. Godfrey, M. Winkler; University of Washington, Seattle, WA.

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30	2022-A-391-ASM-BIO	131	EVALUATION OF BACTERIAL BIOFILM FROM SURFACE AND BOREHOLE WATER SAMPLES	N. A. DIBUA ¹ , E. I. CHUKWURA ² ; ¹ Chukwuemeka Odumegwu Ojukwu University, Uli, NIGERIA, ² Nnamdi Azikiwe University, Awka, NIGERIA.
31	2022-A-123-ASM-BIO	132	WspA domains influence <i>Pseudomonas aeruginosa</i> biofilm formation and infection	L. O'Neal ¹ , Z. Suo ² , C. S. Harwood ¹ , M. R. Parsek ¹ ; ¹ University of Washington, Seattle, WA, ² South China Agricultural University, Guangzhou, CHINA.
32	2022-A-138-ASM-BIO	133	BACTERIAL MOBBING: TARGETING AND COMMUNICATION IN <i>Pseudomonas aeruginosa</i> COMMUNAL ATTACK BEHAVIOR TOWARDS PHAGOCYtic PREDATORS	N. Shteindel , Y. Gerchman; University of Haifa, Tivon, ISRAEL.
33	2022-A-198-ASM-BIO	134	STAPHYLOCOCCAL ENTEROTOXINS CONTRIBUTE TO BIOFILM FORMATION BY <i>STAPHYLOCOCCUS AUREUS</i> IN PLATELET CONCENTRATES	S. I. Chi ¹ , J. Bearne ² , C. McDonald ² , S. Ramirez-Arcos ¹ ; ¹ Medical Affairs and Innovation, Canadian Blood Services, Ottawa, ON, CANADA, ² National Health Service Blood and Transplant, London, UNITED KINGDOM.
34	2022-A-199-ASM-BIO	135	Peptide-Responsive Aggregation in Marine Bacteria <i>Alteromonas</i> spp.: Identification of Aggregation-Inducing Peptides and Implications for Copiotrophic Lifestyle	J. Robertson , T. Hwa; University of California San Diego, San Diego, CA.
35	2022-A-201-	136	Outer Membrane Lipoprotein and β -Barrel Protein Complexes Mediate Surface Sensing in <i>Escherichia coli</i>	T. H. S. Cho , J. Wang, T. L. Raivio; University of Alberta,



	ASM-BIO			Edmonton, AB, CANADA.
36	2022-A-239-ASM-BIO		CITRATE STIMULATES A NOVEL ADHERENCE PHENOTYPE THROUGH CbrAB-Crc SIGNALING IN <i>PSEUDOMONAS AERUGINOSA</i>	A. C. Conaway , D. L. Mould, N. J. Botelho, D. A. Hogan; Geisel School of Medicine at Dartmouth, Hanover, NH.
37	2022-A-252-ASM-BIO	137	CHEMOTAXIS SYSTEM REGULATED FLAGELLAR ROTATION, BUT NOT CHEMOTAXIS, CONTRIBUTES TO THE BIOFILM FORMATION OF <i>HELICOBACTER PYLORI</i>	X. Liu , K. Ottemann; University of California at Santa Cruz, Santa Cruz, CA.
38	2022-A-265-ASM-BIO	138	CHARACTERIZATION OF A HOMOLOGOUS CPX ENVELOPE STRESS RESPONSE SYSTEM IN <i>PSEUDOMONAS AERUGINOSA</i> PAO1	M. O'Malley ¹ , T. Cho ² , T. Raivio ² , M. Parsek ¹ ; ¹ University of Washington, Seattle, WA, ² University of Alberta, Edmonton, AB, CANADA.
39	2022-A-268-ASM-BIO	139	INVESTIGATING NATIVE MUCIN INHIBITION OF <i>PSEUDOMONAS AERUGINOSA</i> SURFACE ATTACHMENT	S. Lamont ¹ , K. Ribbeck ² , D. Wozniak ¹ ; ¹ The Ohio State University, COLUMBUS, OH, ² Massachusetts Institute of Technology, Cambridge, MA.
40	2022-A-279-ASM-BIO	140	SURFACE SENSING IN <i>PSEUDOMONAS AERUGINOSA</i> : ACTIVATION OF THE PIL-CHP SYSTEM THROUGH TYPE IV PILI ACTIVITY	C. Geiger , S. Kuchma, G. O'Toole; Dartmouth College, Hanover, NH.
41	2022-A-293-ASM-BIO	141	Distinct roles of multicopy flagellin genes in motility and adhesion to stainless-steel surface in a metal corrosive marine bacterium	D. Miyagawa ¹ , N. Obana ¹ , N. Ito ¹ , S. Aizawa ² , Y. Miyano ³ , N. Nomura ¹ ; ¹ University of Tsukuba, Tsukuba,



				JAPAN, ² Prefectural University of Hiroshima, Shobara, JAPAN, ³ Akita University, Akita, JAPAN.
42	2022-A-388-ASM-BIO		Substrate stiffness impacts colony formation by <i>Pseudomonas aeruginosa</i> by modulating twitching motility	S. Gomez ¹ , K. Chagua Encarnacion ² , L. Bureau ¹ , K. John ¹ , D. Débarre ¹ , S. Lecuyer ² ; ¹ LIPhy, Grenoble, FRANCE, ² ENS Lyon, Lyon, FRANCE.
43	2022-A-148-ASM-BIO	142	<i>Vibrio fischeri</i> LitR Negatively Regulates SYP- and Cellulose-Dependent Biofilms	B. L. Fung , K. L. Visick; Loyola University Chicago, Maywood, IL.
44	2022-A-188-ASM-BIO	143	Selection for - and impact of - evolved genotypic variants in multispecies biofilms	H. Røder ¹ , C. Amador ¹ , S. Moscovitz ¹ , J. Herschend ¹ , I. Kramer ¹ , L. Maccario ¹ , H. Jeckel ² , V. Cooper ³ , K. Drescher ² , U. Kuhlicke ⁴ , T. Neu ⁴ , M. Burmølle ¹ ; ¹ University of Copenhagen, Copenhagen, DENMARK, ² University of Basel, Basel, SWITZERLAND, ³ University of Pittsburgh, Pittsburgh, PA, ⁴ Helmholtz Centre for Environmental Research, Leipzig, GERMANY.
45	2022-A-250-	144	THE MASTER REGULATOR FleQ POST-TRANSCRIPTIONALLY REGULATES THE PRODUCTION OF RTX ADHESINS IN <i>Pseudomonas fluorescens</i>	A. B. Pastora , G. A. O'Toole, Jr; Geisel School of



	ASM-BIO			Medicine at Dartmouth, Hanover, NH.
46	2022-A-302-ASM-BIO	145	PLANKTONIC VERSUS BIOFILM ASSOCIATED GROWTH IN <i>PSEUDOMONAS</i>	J. J. Dennehy , Y. A. Mejia, M. Trujillo, F. Spagnolo; Queens College, Queens, NY.
47	2022-A-314-ASM-BIO	146	4-ETHOXYBENZOIC ACID (4EB) ATTENUATES BIOFILM FORMATION AND VIRULENCE FACTOR PRODUCTION IN <i>STAPHYLOCOCCUS AUREUS</i> ATCC 6538	C. Taylor , A. Marchesani, E. Sen, E. S. Gilbert; Georgia State University, Atlanta, GA.
48	2022-A-70-ASM-BIO	147	Modelling Surface Charge Effects on Nanoparticle Accumulation in Bacterial Biofilms	J. Prince ¹ , I. Brar ¹ , A. Jones ¹ , D. Tento ² , S. Childs ¹ ; ¹ Duke University, Durham, NC, ² Entegris, Billerica, MA.
49	2022-A-95-ASM-BIO	148	ISOLATION AND IDENTIFICATION OF THE NATIVE POPULATION BACTERIAL BIOFILM FROM INDUSTRIAL MINE WATER FOR ESTIMATION OF HEAVY METAL UPTAKE	A. p. Joshi , S. TB; Acharya institute of technology, banglore, INDIA.
50	2022-A-137-ASM-BIO	149	MORPHOLOGY AND MECHANICS OF <i>Candida albicans</i> FUNGAL BIOFILMS	C. Abriat , M. LaCascia, A. Kumar, M. Solomon; University of Michigan, Ann Arbor, MI.
51	2022-A-144-ASM-BIO	150	SINGLE-CELL MANIPULATION OF <i>PSEUDOMONAS AERUGINOSA</i> USING A MICROFLUIDIC PLATFORM	C. Miller , S. Darch; University of South Florida, Tampa, FL.
52	2022-A-152-ASM-BIO	151	SPECTROSCOPIC DETECTION OF WEAK AND HARD-TO-DETECT <i>LISTERIA MONOCYTOGENES</i> BIOFILMS AND USE OF CHEMOMETRICS TO EXTRACT MULTIVARIATE INFORMATION THEREFROM	N. Altun , M. Sampayo Iglesias, M. Hervello Costas, N. Prado Marrón, F. Lombó, P. González González;



				ASINCAR, Oviedo, SPAIN.
53	2022-A-163-ASM-BIO	152	NON-DESTRUCTIVE, IN-SITU DETERMINATION OF BIOFILM GROWTH DYNAMICS IN REAL TIME	H. R. Teel ¹ , C. E. Turick ² , S. Shimpalee ³ ; ¹ University of South Carolina, Columbia, SC, ² ElectroBioDyne, LLC, Aiken, SC, ³ University of South Carolina, Aiken, SC.
54	2022-A-197-ASM-BIO	153	The Efficacy Of Antioxidant-Antibiotic Combination Therapy On <i>Achromobacter Xylosoxidans</i> In A Cystic Fibrosis Lung Cell Model	A. Aiyer, 1 ¹ , T. Das Ashish Kumar ¹ , G. S. Whiteley ¹ , T. Glasbey ² , F. H. Kriel ² , J. Farrell ¹ , J. Manos ¹ ; ¹ University of Sydney, Sydney, AUSTRALIA, ² Whiteley Corporation, Sydney, AUSTRALIA.
55	2022-A-205-ASM-BIO	154	ELECTROCHEMICAL QUANTIFICATION OF <i>P. AERUGINOSA</i> BIOFILMS, AND REDUCTION USING EXTRACTED BACTERIAL SECONDARY METABOLITES	L. Riordan , P. Lasserre, D. Corrigan, K. R. Duncan; University of Strathclyde, Glasgow, UNITED KINGDOM.
56	2022-A-261-ASM-BIO	155	REAL-TIME SENSING OF BIOFILM	M. McGlennen , M. Dieser, C. M. Foreman, S. Warnat; Montana State University, Bozeman, MT.
57	2022-A-280-ASM-BIO	156	MECHANISM OF BIOFILM FORMATION IN <i>DESULFOVIBRIO VULGARIS</i> HILDENBOROUGH	A. Karbelkar ¹ , T. Smith ¹ , H. Sondermann ² , G. O'Toole ³ ; ¹ Dartmouth College, Hanover, NH, ² Cornell University, Ithaca,



				NY, ³ Dartmouth College, Lebanon, NH.
58	2022-A-202-ASM-BIO	120	LIPOPROTEIN MUTATIONS THAT IMPACT BIOFILM MORPHOLOGY IN UROPATHOGENIC <i>ESCHERICHIA COLI</i>	H. D. Green , T. Williams, G. Van Horn, M. Hadjifrangiskou, J. Schmitz; Vanderbilt University, Nashville, TN.
59	2022-A-160-ASM-BIO	101	SHIP HULL COATINGS INFLUENCE THE STRUCTURE AND RHEOLOGICAL PROPERTIES OF MARINE BIOFILMS WITH IMPLICATIONS FOR DRAG	A. Jackson ¹ , A. Finnie ² , S. Dennington ¹ , J. Longyear ² , J. Wharton ¹ , P. Stoodley ³ ; ¹ Southampton University, Southampton, UNITED KINGDOM, ² AkzoNobel, Gateshead, UNITED KINGDOM, ³ Ohio State University, Columbus, OH.

Poster Session II/Networking

Tuesday, November 15, 2022, 2:00 pm - 4:00 pm

Order	Control Number	Poster Board Number	Title	Author Block
1	2022-A-185-ASM-BIO	101	KEEP IT TOGETHER: EMERGENT PROPERTIES OF MULTISPECIES BIOFILM MATRIX	C. Amador ¹ , H. L. Røder ¹ , U. Kuhlicke ² , T. R. Neu ² , M. Burmølle ¹ ; ¹ Copenhagen University, Copenhagen, DENMARK, ² Helmholtz Centre for Environmental Research-UFZ, Magdeburg, GERMANY.

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2	2022-A-186-ASM-BIO	102	STREPTOCOCCUSGLUCOSYLTRANSFERASE ACTIVITY MEDIATE CROSS-KINGDOM INTERACTIONS WITHCANDIDAON TITANIUM	J. G. S. Souza ¹ , M. Bertolini ² , A. Thompson ² , V. A. R. Barao ³ , M. M. Vickerman ⁴ , A. Dongari-Bagtzoglou ² ; ¹ Guarulhos University, Guarulhos, BRAZIL, ² University of Connecticut School of Dental Medicine, Farmington, CT, ³ Piracicaba Dental School, University of Campinas, Piracicaba, BRAZIL, ⁴ School of Dental Medicine, University at Buffalo, Buffalo, NY.
3	2022-A-216-ASM-BIO	103	BIOPHYSICAL CHARACTERIZATION OF CDRA AND PSL STRUCTURES AND INTERACTIONS IN <i>PSEUDOMONAS AERUGINOSA</i> BIOFILMS	N. Fazio , M. BoClair, E. Moss, C. Reichardt; Washington University in St. Louis, Saint Louis, MO.
4	2022-A-220-ASM-BIO	104	CRYSTAL-CLEAR: MECHANISTIC INSIGHTS INTO CRYSTALLINE CELLULOSE SECRETION	W. Abidi, M. Decossas-Mendoza, L. Torres-Sánchez , L. Puygrenier, P. V. Krasteva, Structural Biology of Biofilms group, European Institute of Chemistry and Biology (IECB), France; CBMN UMR 5248 CNRS, Université de Bordeaux, Pessac, FRANCE.
5	2022-A-229-ASM-BIO	105	MOLECULAR MECHANISMS OF <i>VIBRIO CHOLERAE</i> BIOFILM ADHESION	X. Huang ¹ , T. Nero ¹ , A. Hinbest ² , R. Weerasekera ² , S. A. Malaker ¹ , R. Olson ² , J. Yan ¹ ; ¹ Yale University, New Haven, CT, ² Wesleyan University, Middletown, CT.



6	2022-A-241-ASM-BIO	106	Mutants of the Unipolar Polysaccharide Biosynthetic Protein UppE Are Rescued by a Truncated Paralogous Protein Under Phosphorus Limitation in <i>Agrobacterium tumefaciens</i>	A. K. Gramillo , C. Fuqua; Indiana University, Bloomington, IN.
7	2022-A-243-ASM-BIO	107	STALLED AND STUCK: MUTATION OF POLYSACCHARIDE BIOSYNTHESIS GENES INHIBITS FLAGELLAR MOTILITY AND ELEVATES ATTACHMENT IN <i>AGROBACTERIUM TUMEFACIENS</i>	I. Reynolds , M. C. Onyeziri, C. Fuqua; Indiana University, Bloomington, IN.
8	2022-A-272-ASM-BIO	108	DEFINING A ROLE FOR UPPF IN CELL SURFACE ANCHORING OF THE UNIPOLAR POLYSACCHARIDE ADHESIN OF <i>AGROBACTERIUM TUMEFACIENS</i>	G. G. Hardy , C. Fuqua; Indiana University, Bloomington, IN.
9	2022-A-296-ASM-BIO	109	Characterization of functional amyloids in <i>Pseudomonas aeruginosa</i> biofilm	K. Zamir ¹ , S. Zelikman ¹ , N. Golan ² , M. Landau ² , E. Banin ¹ ; ¹ Bar-Ilan University, Ramat-Gan, ISRAEL, ² Technion, Haifa, ISRAEL.
10	2022-A-356-ASM-BIO	110	CHARACTERIZATION OF THE EXTRACELLULAR MATRIX COMPONENTS OF <i>SALMONELLA ENTERICASEROVAR TYPHIMURIUM</i> BIOFILMS	S. Olubajo , G. Queisser, B. Buttaro, C. Tukul; Temple University, Philadelphia, PA.
11	2022-A-71-ASM-BIO	111	CHARACTERIZING BIOFILM-RELATED GENES DURING PELLICLE FORMATION BY <i>ESCHERICHIA COLI</i> AND ITS INTERACTION WITH <i>AEROMONAS AUSTRALIENSIS</i>	Z. Xu ¹ , T. Zhu ¹ , Z. Wang ¹ , M. Gänzle ¹ , X. Yang ² ; ¹ University of Alberta, Edmonton, AB, CANADA, ² Agriculture and Agri-Food Canada, Lacombe, AB, CANADA.
12	2022-A-81-ASM-BIO	112	CELLULAR ARRANGEMENT ALONG GRADIENTS INFLUENCES NUTRIENT DISTRIBUTION IN <i>PSEUDOMONAS AERUGINOSA</i> BIOFILMS	H. Dayton ¹ , J. Nirody ² , J. Kiss ¹ , W. C. Cornell ¹ , C. Morgan ¹ , L. E. Dietrich ¹ ; ¹ Columbia University, New York, NY, ² The Rockefeller University, New York, NY.



13	2022-A-146-ASM-BIO	113	Determining how nutrient availability impacts nontuberculous mycobacterium (NTM) biofilm formation	Y. Wang ¹ , K. Hisert ² , W. DePas ¹ ; ¹ University of Pittsburgh, Pittsburgh, PA, ² National Jewish Health, Denver, CO.
14	2022-A-151-ASM-BIO	114	Triple-Species Bacterial Vaginosis-Associated Biofilm Growing In A Medium Simulating Genital Tract Secretions	L. G. V. Sousa ¹ , C. A. Muzny ² , N. Cerca ¹ ; ¹ University of Minho, Braga, PORTUGAL, ² University of Alabama at Birmingham, Birmingham, AL.
15	2022-A-154-ASM-BIO	115	Pilin antigenic variation affects genome-wide transcription and antibiotic tolerance by modulating type IV pili interactions	S. Kraus-Römer , I. Wielert, I. Rathmann, P. G. Higgins, B. Maier; University of Cologne, Cologne, GERMANY.
16	2022-A-155-ASM-BIO	116	PLEOMORPHY AND CORDED BIOFILMS OF <i>Mucispirillum schaedleri</i> , A UNIQUE SPIRAL BACTERIUM	R. J. Palmer, Jr ¹ , D. Stephany ¹ , E. Falcone ² ; ¹ National Institutes of Health, Bethesda, MD, ² Montreal Clinical Research, Montreal, QC, CANADA.
17	2022-A-159-ASM-BIO	117	THE ROLE OF DIGUANYLATE CYCLASE IN THE FORMATION OF BIOFILMS ON PET PLASTIC	H. Laster , J. Mellies; Reed College, Portland, OR.
18	2022-A-169-ASM-BIO	118	<i>Mucispirillum schaedleri</i> : CORDED BIOFILMS AND PLEOMORPHY IN A UNIQUE SPIRAL BACTERIUM	R. Palmer ¹ , P. Zervas ² , D. Stephany ³ , E. Falcone ⁴ ; ¹ NIDCR/NIH, Bethesda, MD, ² ORS/NIH, Bethesda, MD, ³ NIAID/NIH, Bethesda, MD, ⁴ Montreal Clinical Research Institute, Montreal, QC, CANADA.



19	2022-A-177-ASM-BIO	119	Biofilm formation of <i>Listeria monocytogenes</i> on stainless steel coupons in cantaloupe juice characterized by SEM and RNA Seq	M. Redding ¹ , G. Gu ¹ , J. Mowery ¹ , J. Zheng ² , X. Nou ¹ ; ¹ USDA ARS, Beltsville, MD, ² US FDA, College Park, MD.
20	2022-A-214-ASM-BIO	120	Microbial corrosion of carbon steel by <i>Pseudomonas aeruginosa</i>	B. B. Kayastha ¹ , B. K. Jasthi ² , R. K. Sani ² , V. R. Gadhamshetty ² , B. Tseng ¹ ; ¹ University of Nevada, Las Vegas, Las Vegas, NV, ² South Dakota School of Mines and Technology, Rapid City, SD.
21	2022-A-219-ASM-BIO	121	CORRELATIONS BETWEEN SELF-PRODUCED MICROSCALE pH GRADIENTS AND MECHANICS IN <i>STAPHYLOCOCCUS EPIDERMIDIS</i> BIOFILMS	P. J. Michalik , E. J. Stewart; Worcester Polytechnic Institute, Worcester, MA.
22	2022-A-235-ASM-BIO	122	Development of mass spectrometry based approaches to assign <i>Pseudomonas aeruginosa</i> strains to phylotype groups	V. Phelan ; University of Colorado, Denver - Anschutz Medical Campus, Aurora, CO.
23	2022-A-236-ASM-BIO	123	ALGINATE OVERPRODUCTION IS NOT THE DRIVING FACTOR IN ENVELOPE STRESS RESPONSE MUTATIONS OF <i>PSEUDOMONAS AERUGINOSA</i>	M. Schofield Londono , V. Meza-Perez, B. Tseng; UNLV, Las Vegas, NV.
24	2022-A-237-ASM-BIO	124	MONITORING SPATIOTEMPORAL PREBIOTIC TREATMENT RESPONSES IN A PERIODONTAL MULTISPECIES BIOFILM MODEL	J. Ghesquière ¹ , K. Simoens ¹ , E. Koos ¹ , N. Boon ² , W. Teughels ¹ , K. Bernaerts ¹ ; ¹ KU Leuven, Leuven, BELGIUM, ² UGent, Gent, BELGIUM.
25	2022-A-253-ASM-BIO	125	Transcriptomic profiling of the <i>Pseudomonas aeruginosa</i> biofilm using single-cell RNA sequencing	N. Arabameri ¹ , A. Rosenthal ² , B. Tseng ¹ ; ¹ University of Nevada, Las Vegas, Las Vegas,



				NV, ² University of North Carolina, Chapel Hill, NC.
26	2022-A-262-ASM-BIO	126	NUTRIENT-DEPENDENT EFFECTS OF THE OUTER MEMBRANE PORIN OPRF IN <i>PSEUDOMONAS AERUGINOSA</i> BIOFILM FORMATION	E. K. Cassin ¹ , S. A. Araujo-Hernandez ¹ , L. O'Neal ² , D. S. Baughn ¹ , M. C. Schofield Londono ¹ , D. Q. Rodriguez ¹ , M. R. Parsek ² , B. S. Tseng ¹ ; ¹ University of Nevada - Las Vegas, Las Vegas, NV, ² University of Washington, Seattle, WA.
27	2022-A-269-ASM-BIO	127	<i>Pseudomonas</i> Elastase is a Biofilm Matrix-Associated Enzyme	J. Stembel , M. Parsek; University of Washington, Seattle, WA.
28	2022-A-275-ASM-BIO	128	Characterization of hypothetical proteins essential for temperature-dependent adaptation in <i>Pseudomonas aeruginosa</i>	A. Luecke ¹ , K. Bisht ² , S. Islam ¹ , P. Mathews ¹ , C. Wakeman ¹ ; ¹ Texas Tech University, Lubbock, TX, ² Princeton University, Princeton, NJ.
29	2022-A-278-ASM-BIO	129	Novel Biosynthetic Gene Cluster Alters <i>Streptococcus mutans</i> Biofilm Formation	S. Momeni , H. Wu; Oregon Health and Science University, Portland, OR.
30	2022-A-299-ASM-BIO	130	TEMPERATURE DEPENDENT REGULATION OF MYO INOSITOL OPERON IN <i>Clostridium perfringens</i> BIOFILMS	R. Fukuda , N. Obana, N. Nomura; University of Tsukuba, Tsukuba, JAPAN.
31	2022-A-316-ASM-BIO		EVOLUTION OF BIOFILM-ADAPTED GENE EXPRESSION PROFILES IN CLINICAL <i>PSEUDOMONAS AERUGINOSA</i> ISOLATES	J. G. Thöming ¹ , M. Preusse ² , D. Strunin ¹ , S. Häussler ² ; ¹ University Hospital Copenhagen, Copenhagen, DENMARK, ² Helmholtz Centre for Infection



				Research, Braunschweig, GERMANY.
32	2022-A-345-ASM-BIO	132	BACTERIAL QUANTITATIVE TRAIT LOCI (QTL) MAPPING - A NOVEL METHOD FOR DECIPHERING THE GENETICS OF BIOFILM ARCHITECTURE	D. Vasileva , J. Streich, L. Burdick, J. Lagergren, H. Chhetri, D. Klingeman, D. Close, C. Ellis, D. Jacobson, J. Michener; Oak Ridge National Laboratory, Oak Ridge, TN.
33	2022-A-348-ASM-BIO		ALGINATE-ASSOCIATED BIOFILM MATRIX PROTEINS IN <i>PSEUDOMONAS AERUGINOSA</i>	H. M. Jacobs ¹ , R. S. Johnson ¹ , M. J. MacCoss ¹ , D. J. Wozniak ² , M. R. Parsek ¹ ; ¹ University of Washington, Seattle, WA, ² Ohio State University, Columbus, OH.
34	2022-A-389-ASM-BIO	134	IDENTIFYING HOW DOS-MEDIATED HYPOXIC DORMANCY IMPACTS BIOFILM FORMATION IN NONTUBERCULOUS MYCOBACTERIA (NTM) THROUGH REGULATION OF MYCOMEMBRANE COMPONENTS	M. Meyer , W. DePas; University of Pittsburgh, Pittsburgh, PA.
35	2022-A-310-ASM-BIO	136	GROWING BIOFILMS IN CHEMOSTATS	Y. A. Mejia ¹ , M. Trujillo ² , J. J. Dennehy ³ , F. Spagnolo ⁴ ; ¹ CUNY Queens College, Flushing, NY, ² CUNY Queensborough Community College, Bayside, NY, ³ CUNY Graduate Center, New York, NY, ⁴ Long Island University Post, Brookville, NY.
36	2022-A-326-ASM-BIO	137	PHOTOTHERMAL THERAPY FOR DISRUPTING BIOFILMS AND DECREASING BACTERIAL VIABILITY IN ISOLATED AND COCULTURED BIOFILMS	A. Huet-Hudson , D. Campbell, N. Levi; Wake Forest School of Medicine, Winston-Salem, NC.



37	2022-A-339-ASM-BIO	138	EX VIVO TONGUE BIOFILM MODEL FOR ORAL MALODOR FORMATION	B. J. F. Keijser , M. Ossendrijver, J. Kieboom; TNO, Leiden, NETHERLANDS.
38	2022-A-361-ASM-BIO	139	MICROCAPSULE-TEMPLATED POLYMICROBIAL AGGREGATES TO ENABLE THE STUDY OF AGGREGATE PHYSIOLOGY	S. L. Pratt , C. B. Chang; Montana State University, Bozeman, MT.
39	2022-A-362-ASM-BIO	140	MYCOBACTERIOPHAGES EXHIBIT ANTIBIOFILM ACTIVITY AT HIGH MULTIPLICITIES OF INFECTION	D. Kanya , W. Ssengooba, J. L. Nakavuma, B. Achan, J. Semanda; Makerere University, Kampala, UGANDA.
40	2022-A-364-ASM-BIO	141	Development of Standard Protocols to Assess RelA Inhibitors	M. Thwe ; Drexel University, Philadelphia, PA.
41	2022-A-374-ASM-BIO	142	Growing biofilms in microdroplets for the development of a high-throughput methodology to characterize biofilm communities	J. D. Li ¹ , J. Tan ¹ , L. Raskin ¹ , A. J. Pinto ² , X. N. Lin ¹ ; ¹ University of Michigan, Ann Arbor, MI, ² Georgia Institute of Technology, Atlanta, GA.
42	2022-A-244-ASM-BIO	143	Investigation of Papain and Levofloxacin in the Eradication of E. coli Biofilms	M. Abdelbarr , H. Mallory; North Carolina School of Science and Math, Durham, NC.
43	2022-A-84-ASM-BIO	144	MICROSCOPIC DETECTION AND SEMI-QUANTITATIVE SCORING OF BIOFILMS IN VENOUS LEG ULCERS	G. A. James ¹ , S. T. Fisher ¹ , J. K. Stechmiller ² , D. E. Lyon ² , P. S. Stewart ¹ ; ¹ Montana State University, Bozeman, MT, ² University of Florida, Gainesville, FL.
44	2022-A-94-ASM-BIO	145	COMPARATIVE STUDY OF INTRACELLULAR BIOFILMS FORMED BY CLINICAL ADHERENT INVASIVE <i>E. COLI</i>	E. Bruder ¹ , N. Quenech'du ¹ , C. Chevarin ² , N. Barnich ² , S. Rimsky ¹ , O. Espéli ¹ ; ¹ College de France, Paris,



				FRANCE, ² M2iSH, Clermont-Ferrand, FRANCE.
45	2022-IS-398-ASM		Late Breaker Posters 151-166	D. Hurdle ; ASM, City, VA.
46	2022-A-222-ASM-BIO	131	THE ROLE OF EXTRACELLULAR DNA IN MUCOID <i>PSEUDOMONASAERUGINOSA</i> BIOFILMS	D. Ferguson ¹ , E. S. Gloag ² , D. J. Wozniak ¹ ; ¹ The Ohio State University, Columbus, OH, ² Virginia Tech, Blacksburg, VA.
47	2022-A-277-ASM-BIO	146	INVESTIGATING <i>SALMONELLA ENTERICA</i> SEROVAR <i>TYPHIMURIUM</i> BET-HEDGING USING A DUAL REPORTER STRAIN	M. I. Gerber , D. J. Herman, M. B. Palmer, C. R. Nnajide, M. C. McCarthy, J. Sparrow, N. Dhar, A. P. White; Vaccine & Infectious Disease Organization-International Vaccine Centre, Saskatoon, SK, CANADA.
48	2022-A-343-ASM-BIO	147	IDENTIFYING THE GENETIC DETERMINANTS OF <i>G.VAGINALIS</i> BIOFILM FORMATION	J. Magri , M. Topf, J. Kernien, N. M. Nightingale, K. A. Overmyer, J. J. Coon, C. S. Pepperell; University of Wisconsin-Madison, Madison, WI.

Poster Session III/Networking

Wednesday, November 16, 2022, 2:00 pm - 4:00 pm

Order	Control Number	Poster Board Number	Title	Author Block
1	2022-A-113-ASM-BIO	101	Antibiotic treatment of biofilm infections	M. Rashid; University of Karachi, Karachi, PAKISTAN.
2	2022-A-120-ASM-BIO	102	GENERAL STRESS RESPONSE OF <i>SALMONELLA</i> TYPHIMURIUM IN HETEROGENOUS BIOFILM COMMUNITIES AS A REACTION TO ECOLOGICAL COMPETITION: IMPLICATIONS FOR THE EMERGENCE AND SPREAD OF ANTIMICROBIAL RESISTANCE AND POTENTIAL SOLUTIONS	L. Svet, B. Lories, H. Steenackers; KU Leuven, Leuven, BELGIUM.
3	2022-A-121-ASM-BIO	103	CHARACTERIZATION OF THE MOLECULAR DETERMINANTS AND THE CONSEQUENCES OF INTRA AND INTER-SPECIES INTERACTIONS OF THE ATYPICAL DIDERM FIRMICUTE <i>VEILLONELLA PARVULA</i>	L. Dorison, C. Beloin, J. Ghigo; Institut Pasteur, 75015 - PARIS 15, FRANCE.
4	2022-A-122-ASM-BIO	104	TRADE-OFFS CONSTRAIN ADAPTIVE PATHWAYS TO TYPE 6 SECRETION SYSTEM RESISTANCE BY DIRECTED EVOLUTION	B. K. Hammer ¹ , K. A. MacGillivray ¹ , S. L. Ng ¹ , S. Wiesenfeld ¹ , R. L. Guest ² , T. Jubery ¹ , T. J. Silhavy ² , W. C. Ratcliff ¹ ; ¹ Georgia Tech, Atlanta,

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				GA, ² Princeton University, Princeton, NJ.
5	2022-A-126-ASM-BIO	105	Cell group architecture dictates phage exposure in multispecies biofilms	J. B. Winans , B. R. Wucher, C. D. Nadell; Dartmouth College, Hanover, NH.
6	2022-A-127-ASM-BIO	106	Quorum sensing controlled biofilm dispersal of <i>P. aeruginosa</i> mediates competition between <i>P. aeruginosa</i> , <i>E. coli</i> , and <i>E. faecalis</i>	J. D. Holt , C. D. Nadell; Dartmouth College, Hanover, NH.
7	2022-A-134-ASM-BIO	107	COMBINATORIAL TREATMENT WITH ANTIBIOTICS AND THE PROBIOTIC <i>E. COLI</i> NISSLE AS A STRATEGY TO COMBAT BIOFILMS OF COOPERATIVELY RESISTANT <i>SALMONELLA</i> TYP HIMURIUM	G. De Wit , B. Lories, H. Steenackers; KU Leuven, Heverlee, BELGIUM.
8	2022-A-136-ASM-BIO	108	UNDERSTANDING INTERACTIONS BETWEEN BACTERIAL AGGREGATES AND EMERGING PATHOGENS IN THE CYSTIC FIBROSIS LUNG	A. Gannon , S. Darch; University of South Florida, Tampa, FL.
9	2022-A-150-ASM-BIO	109	<i>STAPHYLOCOCCUS AUREUS</i> PIGMENT PRODUCTION IS INDUCED BY GROWTH WITH <i>PSEUDOMONAS AERUGINOSA</i> AND CONFERS CROSS-SPECIES PROTECTION AGAINST HOST IMMUNITY	Y. Liu , E. McQuillen, P. S. Rana; Ohio State University, Columbus, OH.
10	2022-A-161-	110	Interkingdom assemblages in human saliva display group-level surface mobility and	Z. Ren ¹ , H. Jeckel ² , A. Simon-Soro ¹ , Z. Xiang ¹ , Y. Liu ¹ , I. M. Cavalcanti ¹ , J. Xiao ³ , N. Tin ⁴ , A. Hara ⁴ , K.

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	ASM-BIO		disease-promoting emergent functions	Drescher ² , H. Koo ¹ ; ¹ University of Pennsylvania, Philadelphia, PA, ² University of Basel, Basel, SWITZERLAND, ³ University of Rochester, Rochester, NY, ⁴ Indiana University, Indianapolis, IN.
11	2022-A-187-ASM-BIO		H-NS Coordinately Represses the Type VI Secretion System and Biofilm in <i>Vibrio fischeri</i> MJ11	L. Speare ¹ , R. Y. Isenberg ² , A. Jackson ³ , M. J. Mandel ² , A. N. Septer ³ ; ¹ Oregon State University, Corvallis, OR, ² University of Wisconsin, Madison, WI, ³ University of North Carolina, Chapel Hill, NC.
12	2022-A-203-ASM-BIO	113	SOCIAL EVOLUTION OF SHARED BIOFILM MATRIX COMPONENTS	J. B. Tai ¹ , S. Mukherjee ² , T. Nero ¹ , R. Olson ³ , J. Tithof ² , C. D. Nadell ⁴ , J. Yan ¹ ; ¹ Yale University, New Haven, CT, ² University of Minnesota, Minneapolis, MN, ³ Wesleyan University, Middletown, CT, ⁴ Dartmouth College, Hanover, NH.
13	2022-A-204-ASM-BIO	114	COMMUNITY CONTEXT OF MULTISPECIES BIOFILMS AND PHAGE DYNAMICS	M. F. Hansen , A. Nielsen Psilander, N. Randløv Petersen, A. M. Djurhuus, K. Krag-Olsen, J. Højlund Olsen, L. Hestbjerg Hansen, M. Burmølle; University of Copenhagen, Copenhagen, DENMARK.
14	2022-A-228-ASM-BIO	115	PATTERNS OF ALKYL QUINOLONE DISTRIBUTION IN <i>PSEUDOMONAS AERUGINOSA</i> COLONY BIOFILMS	A. Weaver ¹ , D. Parmar ² , A. Cutri ¹ , J. Jia ³ , P. Bohn ¹ , J. Sweedler ² ; ¹ University of Notre Dame, Notre Dame, IN, ² University of Illinois Urbana-



				Champagne, Urbana-Champagne, IL, ³ Northwestern University, Evanston, IL.
15	2022-A-230-ASM-BIO	116	<i>ENTEROCOCCUS FAECALIS</i> ATTENUATES <i>PSEUDOMONAS AERUGINOSA</i> COMPETITIVE RESPONSE AND PROMOTES GROWTH IN NUTRIENT LIMITING CONDITIONS	M. Fink , J. Shrout; University of Notre Dame, South Bend, IN.
16	2022-A-242-ASM-BIO	117	BIOFILM ARCHITECTURE CONTROLS A TRADE-OFF BETWEEN PROTECTION AGAINST PHAGES AND PREDATORY BACTERIA	A. Goldstein-Plessner ¹ , D. Kadouri ² , C. Nadell ¹ ; ¹ Dartmouth College, Hanover, NH, ² Rutgers, Newark, NJ.
17	2022-A-254-ASM-BIO	118	ADDITION OF CARIOGENIC PATHOGENS TO COMPLEX ORAL MICROFLORA DRIVES SIGNIFICANT CHANGES IN BIOFILM COMPOSITIONS AND FUNCTIONALITY	Y. Liu, G. Hwang ; University of Pennsylvania, Philadelphia, PA.
18	2022-A-260-ASM-BIO	119	THE ART OF COMMUNITY BUILDING: GLYCEROL METABOLISM SUPPORTS ORAL COMMENSAL INTERACTIONS	P. Treerat, J. Merritt, J. Kreth ; Oregon Health & Science University, Portland, OR.
19	2022-A-264-ASM-BIO	120	INTERACTIONS BETWEEN <i>ENTEROCOCCUS FAECALIS</i> AND <i>KLEBSIELLA PNEUMONIAE</i> IN POLYMICROBIAL CATHETER-ASSOCIATED URINARY TRACT INFECTIONS	Z. Zou , J. S. Pinkner, C. L. P. Obernuefemann, T. M. Nye, K. R. Kleinschmidt, K. W. Dodson, M. G. Caparon, S. J. Hultgren; Washington University School of Medicine in St. Louis, St. Louis, MO.
20	2022-A-267-ASM-BIO	121	INTERSPECIES INTERACTIONS BETWEEN <i>PSEUDOMONAS AERUGINOSA</i> AND <i>CANDIDA AURIS</i>	C. Lam , K. Danis-Włodarczyk, D. J. Wozniak; Ohio State University, Columbus, OH.



21	2022-A-303-ASM-BIO	122	How <i>Pseudomonas aeruginosa</i> uses Type VI Secretion system to shape the structure of polymicrobial communities	M. Rudzite , A. Filloux; Imperial College London, London, UNITED KINGDOM.
22	2022-A-337-ASM-BIO	123	COMMUNITY INTRINSIC PROPERTIES OF MULTISPECIES BIOFILMS - THE ROLE OF THE MATRIX	D. Ronin , M. F. Hansen, M. Burmølle; University of Copenhagen, København, DENMARK.
23	2022-A-346-ASM-BIO	124	INTERACTIONS BETWEEN <i>STAPHYLOCOCCUS AUREUS</i> AND <i>PSEUDOMONAS AERUGINOSA</i> IN CHRONIC WOUND INFECTIONS	K. C. Keim , M. J. Schurr, A. R. Horswill; University of Colorado Anschutz Medical Campus, Aurora, CO.
24	2022-A-79-ASM-BIO	125	IMPACT OF SMALL NON-CODING RNA00203 ON BIOFILM-SPECIFIC ANTIBIOTIC RESISTANCE IN <i>INACINETOBACTER BAUMANNII</i>	A. Shenkutie ¹ , L. Polly ² ; ¹ St Paul's Hospital and Millennium Medical College, Addis Ababa, ETHIOPIA, ² The Hong kong Polytechnic University, Hong Kong, HONG KONG.
25	2022-A-172-ASM-BIO	126	MECHANISM OF NATIVE DISPERSION BY <i>PSEUDOMONAS AERUGINOSA</i> BIOFILMS AND SIMILARITY TO ENVIRONMENTALLY-INDUCED DISPERSION	M. Kalia , K. Sauer; Binghamton University, Vestal, NY.
26	2022-A-270-ASM-BIO	127	DEVELOPMENT OF A <i>PSEUDOMONAS AERUGINOSA</i> STOPPED FLOW BIOFILM DISPERSION MODEL TO ASSESS MATRIX DEGRADATION	C. L. Kleeschulte , M. R. Parsek; University of Washington, Seattle, WA.
27	2022-A-309-ASM-BIO	128	BIOPHYSICAL PROPERTIES OF <i>STAPHYLOCOCCUS EPIDERMIDIS</i> CELLS DISPERSED DURING MATRIX	S. Packard , E. Stewart; Worcester Polytechnic Institute, Worcester, MA.



			TARGETED BIOFILM DISRUPTION	
28	2022-A-311-ASM-BIO	129	COMPARING α -AMYLASE AND CIS-2-DECENOIC ACID TREATMENTS TO DISPERSE <i>PSEUDOMONAS AERUGINOSA</i> BIOFILMS	V. Chavez ¹ , K. Purkeypile ² , M. Muscente ³ , G. Nair ³ , I. Nicolo ³ , D. Davies ³ , C. Light ³ , W. Redman ³ ; ¹ Borough of Manhattan Community College, New York, NY, ² University of Nebraska at Kearney, Kearney, NE, ³ Binghamton University, Binghamton, NY.
29	2022-A-330-ASM-BIO	130	NONTYPEABLE <i>HAEMOPHILUS INFLUENZAE</i> (NTHI) NEWLY RELEASED FROM BIOFILM RESIDENCE EXHIBIT UNIQUE PHENOTYPES	K. Wilbanks , E. M. Mokrzan, T. Kesler, S. D. Goodman, L. O. Bakaletz; Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH.
30	2022-A-358-ASM-BIO	132	RELEASE OF NONTUBERCULOUS MYCOBACTERIA (NTM) FROM BIOFILM RESIDENCE BY A HUMANIZED MONOCLONAL ANTIBODY SIGNIFICANTLY AUGMENTED THEIR KILLING BY AMIKACIN & AZITHROMYCIN	N. Kurbatfinski ¹ , N. J. Tobin ¹ , J. Wickham ¹ , P. Hill ² , L. Hall-Stoodley ² , S. D. Goodman ¹ , L. O. Bakaletz ¹ ; ¹ Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH, ² The Ohio State University College of Medicine, Columbus, OH.
31	2022-A-360-ASM-BIO	134	Investigating the role of VF_1397 in biofilm dispersal of <i>Vibrio fischeri</i>	J. Esin , A. Kroken, K. Visick; Loyola University Chicago, Chicago, IL.
32	2022-A-375-ASM-BIO		BDLA DEPENDENT AND INDEPENDENT BACTERIAL VIRULENCE IN <i>PSEUDOMONAS AERUGINOSA</i>	W. Redman , O. Stala, K. Sauer; Binghamton University, Vestal, NY.



33	2022-A-112-ASM-BIO	136	IN VITRO THRAPUTICT POTENTIAL EVALUATION OF MEDICINAL PLANTS EXTRACTS AGAINST BIOFILM FORMING <i>Klebsiella pneumoniae</i> CHARECTERIZED BY 16S rRNA.	S. A. Khan ¹ , W. Khan ² , M. Uddin ¹ ; ¹ University of Swat, Swat, PAKISTAN, ² University Of Swat, Swat, PAKISTAN.
34	2022-A-117-ASM-BIO	137	ROLE OF ANTI-MIOTIC DRUG ASP. <i>AERUGINOSA</i> QUORUM SENSING INHIBITOR	V. KUMAR , V. Agarwal; MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, PRAYAGRAJ, INDIA.
35	2022-A-119-ASM-BIO	138	DETECTION OF BIOFILMS AMONG CARBAPENEM RESISTANCE <i>ENTEROBACTERIACEAE</i> ISOLATED FROM DOMESTIC SINKS	A. E. Ojo ¹ , S. O. ADEBAJO ¹ , O. A. OJO ² , O. A. OJO ² ; ¹ federal university of agriculture, abeokuta, nigeria, abeokuta, NIGERIA, ² Madona university , Elele, Port-Harcourt, River state, Nigeria, port-harcourt, NIGERIA.
36	2022-A-124-ASM-BIO	139	The effect of gallbladder conditions on <i>Salmonella</i> persister cell formation	J. F. Gonzalez , R. Hitt, B. Laipply, J. S. Gunn; Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH.
37	2022-A-130-ASM-BIO	140	УТВОРЕННЯ БІОПЛІВКИ ТА АНТАГОНІЗМ <i>STAPHYLOCOCCUS SPP.</i> ІЗОЛЬОВАНО ВІД ХВОРИХ НА АТОПІЧНИЙ ДЕРМАТИТ	S. Boyanovsky ¹ , K. Rudnieva ² , V. Ushkalov ³ , L. Vygovska ³ , Y. Vishovan ³ , A. Ushkalov ³ ; ¹ State Scientific Control Institute of Biotechnology and Strains of Microorganisms, Kyiv, UKRAINE, ² Kyiv Regional Clinical Hospital,, Kyiv, UKRAINE, ³ National University of Life and



				Environmental Sciences of Ukraine, Kyiv, UKRAINE.
38	2022-A-135-ASM-BIO	141	ANTIBACTERIAL ACTIVITY OF SOME MEDICINAL PLANTS AGAINST BIOFILM-FORMING METHICILLIN-RESISTANT <i>STAPHYLOCOCCUS AUREUS</i>	T. Ibrahim; Queens University, Belfast, UNITED KINGDOM.
39	2022-A-143-ASM-BIO	142	ANTIMICROBIAL EFFECT OF CHLOROPHYLLIN AND POLYETHYLENIMINE ON <i>PSEUDOMONAS AERUGINOSA</i> PLANKTONIC CELLS AND BIOFILM	M. Mahmoud, P. Richter, M. Lebert, A. Burkovski; Friedrich Alexander University, Erlangen, GERMANY.
40	2022-A-175-ASM-BIO	143	ANTIMICROBIAL RESISTANCE PATTERN OF BACTERIA IN URINARY TRACT INFECTION IN ASSIN FOSU GHANA	J. Deke ¹ , C. W. Akenten ¹ , A. Owusu-Ofori ² , D. Dekker ³ , J. Amuasi ¹ ; ¹ Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, GHANA, ² School of Medicine and Dentistry, KNUST, Kumasi, GHANA, ³ Infectious Disease Epidemiology Department, Bernhard Nocht Institute for Tropical Medicine, Hamburg, GERMANY.
41	2022-A-192-ASM-BIO	144	IMPACT OF A COMBINATION THERAPY OF AN ANTIMICROBIAL AND DISPERSAL AGENT TO TREAT A MATURE <i>METHICILLAN RESISTANT STAPHYLOCOCCUS AUREUS</i> (MRSA) BIOFILM	R. Moore, H. Smyth; University of Texas at Austin, Austin, TX.
42	2022-A-207-	145	DIFFERENTIAL IMPACT OF THE ANTIFUNGAL OCCIDIOFUNGIN ON	R. Kumpakha, D. M. Gordon;

**ASM**

CONFERENCE ON BIOFILMS

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	ASM-BIO		BIOFILM DEVELOPMENT BY <i>CANDIDASPECIES</i>	Mississippi State University, Mississippi State, MS.
43	2022-A-221-ASM-BIO	146	TOMATIDINE AS A POTENTIATOR FOR AMINOGLYCOSIDES AGAINST <i>S. AUREUS</i> BIOFILMS	C. Mailhot , J. Langlois, F. Malouin; Universite de Sherbrooke, Sherbrooke, QC, CANADA.
44	2022-A-234-ASM-BIO	147	A comparison of dosing levels required to kill <i>Staphylococcus aureus</i> biofilms verses planktonic bacteria using antimicrobial blue light (aBL), levofloxacin, and rifampin	J. Ong , R. Godfrey, D. Williams; University of Utah, Salt Lake City, UT.
45	2022-A-245-ASM-BIO	148	ANTIMICROBIAL SUSCEPTIBILITY PATTERN OF <i>ENTEROCOCCUS</i> ISOLATED FROM THE ORAL AND RECTAL CAVITY OF <i>SUS SCROFA DOMESTICA</i> (DOMESTIC PIG) AND IDENTIFICATION OF VRE STRAIN	G. O. Ozota , K. C. Ben-Umeh; University of Nigeria, Nsukka, Nsukka, NIGERIA.
46	2022-A-248-ASM-BIO	149	MODELING MICROBIAL INTERACTIONS IN THE CYSTIC FIBROSIS LUNG	F. Jean-Pierre ¹ , T. Hampton ¹ , D. Hogan ¹ , M. Groleau ² , E. Déziel ² , G. O'Toole ¹ ; ¹ Geisel School of Medicine, Hanover, NH, ² INRS, Montreal, QC, CANADA.
47	2022-A-284-ASM-BIO	150	PHAGE TREATMENT EFFICACY IN A <i>P. AERUGINOSA</i> MOUSE, WOUND-INFECTION MODEL, AND ASSOCIATED INNATE IMMUNE SYSTEM MODULATION	K. Danis-Wlodarczyk , S. Mahajan, C. Lam, A. DiCesare, P. S. Rana, Y. Liu, D. J. Wozniak; The Ohio State University, Columbus, OH.
48	2022-A-295-	151	EVOLUTIONARY INTERPLAY BETWEEN BIOFILM	S. THIRIET-RUPERT , M. BOUILLANT-LINET, M. RENAUX, J. GHIGO, C.



	ASM-BIO		FORMATION AND ANTIBIOTIC RESISTANCE	BELOIN; Institut Pasteur, Paris, FRANCE.
49	2022-A-298-ASM-BIO	153	VIRULENCE FACTORS OF <i>CANDIDA AURIS</i> AND ITS INTERACTION WITH <i>PSEUDOMONAS AERUGINOSA</i>	O. Gcilitshana ; University of Free state, Bloemfontein, SOUTH AFRICA.
50	2022-A-306-ASM-BIO	154	Real-time Monitoring of a High-throughput Biofilm Assay	S. K. Childs , A. D. Jones, III; Duke University, Durham, NC.
51	2022-A-325-ASM-BIO	155	PROBIOTICS AND PROBIOTIC BIOSURFACTANTS INHIBIT PATHOGENIC <i>S. AUREUS</i> ON ACELLULAR DERMAL MATRIX	S. D. Pennypacker , A. Peoples, A. J. Katz, N. Levi; Wake Forest University School of Medicine, Winston Salem, NC.
52	2022-A-334-ASM-BIO	156	ESKAPEE PATHOGENS RELEASED FROM BIOFILM RESIDENCE BY A HUMANIZED MONOCLONAL ANTIBODY WERE HIGHLY SENSITIZED TO KILLING BY ANTIBIOTICS	N. Kurbatfinski , S. D. Goodman, L. O. Bakaletz; Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH.
53	2022-A-336-ASM-BIO	157	THE EFFECTS OF ANTIBIOTIC AND PHAGE THERAPIES ON BIOFILMS	M. Trujillo ¹ , Y. A. Mejia ² , J. J. Dennehy ³ , F. Spagnolo ⁴ ; ¹ Queensborough Community College, Bayside, NY, ² Queens College, Flushing, NY, ³ Queens College College, Flushing, NY, ⁴ Long Island University Post, Brookville, NY.
54	2022-A-344-ASM-BIO	158	IDENTIFYING SIGNALS THAT REGULATE COLISTIN RESISTANCE THROUGH PMRAB AND PHOPQ	R. Al-Feghali , K. Sauer; Binghamton University, Vestal, NY.



			IN <i>PSEUDOMONAS AERUGINOSA</i>	
55	2022-A-353-ASM-BIO	160	Lipoxazolidinone Natural Product Derivative Displays Potent <i>in vitro</i> Antibiofilm Activity	A. Ratchford , J. G. Pierce, L. V. Schnabel; North Carolina State University, Raleigh, NC.
56	2022-A-369-ASM-BIO	161	GASTROKINE-1 INHIBITS BIOFILM FORMATION BY ADHERENT-INVASIVE <i>Escherichia coli</i>	A. Mysore Rajashekara ¹ , M. Gomulinski ² , A. Boger-May ¹ , M. Chapman ² , D. Boone ¹ ; ¹ University of Notre Dame, South Bend, IN, ² University of Michigan, Ann Arbor, MI.
57	2022-A-376-ASM-BIO	162	Effect of the absence of OprF on the <i>P. aeruginosa</i> susceptibility to complement proteins and engulfment by macrophages	S. Syed , C. N. H. Marques; Binghamton University Biofilm Group, Binghamton, NY.
58	2022-A-380-ASM-BIO	163	Antibiotic tolerance of <i>Staphylococcus aureus</i> aggregates <i>in vitro</i>	P. Burback , A. Staats, P. Stoodley; Ohio State University, Columbus, OH.
59	2022-A-384-ASM-BIO	164	The Antimicrobial Peptide LL-37 Promotes Penetration of Antibiotics through Infected Sputum	T. Chang ¹ , Q. Chen ¹ , M. J. Kratochvil ² , P. Cai ² , E. Burgener ³ , C. Milla ³ , A. J. Spakowitz ² , S. C. Heilshorn ² , P. L. Bollyky ¹ ; ¹ Division of Infectious Diseases and Geographic Medicine Stanford University School of Medicine, Stanford, CA, ² Stanford University, Stanford, CA, ³ Stanford University School of Medicine Center for Excellence in Pulmonary Biology, Stanford, CA.



60	2022-A-327-ASM-BIO	135	FORMATION AND BEHAVIOR OF ZORBS—MOTILE, MULTI-SPECIES BACTERIAL BIOFILMS	S. Magesh , J. F. Nepper, C. Li, D. J. Beebe, J. Handelsman; University of Wisconsin-Madison, Madison, WI.
61	2022-A-379-ASM-BIO	165	PHOENIX COLONY EMERGENCE in <i>PSEUDOMONAS AERUGINOSA</i> BIOFILMS	D. Sindeldecker , P. Stoodley; Ohio State University, Columbus, OH.

Poster Session IV/Networking

Thursday, November 17, 2022, 2:00 pm - 4:00 pm

Control Number	Poster Board Number	Title	Author Block
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2022-A-158-ASM-BIO	101	DEVELOPING A MURINE MODEL OF BIOFILM INFECTION IN THE SINONASAL CAVITY	E. J. Vanderpool , K. P. Rumbaugh; Texas Tech University Health Sciences Center, Lubbock, TX.
2022-A-166-ASM-BIO	102	SYNOVIAL FLUID-INDUCED STAPHYLOCOCCAL AGGREGATES ALTER THE ACTIVITY OF LOCAL AND RECRUITED IMMUNE CELLS	A. Staats ¹ , P. W. Burbach ¹ , D. Li ² , A. Karp ¹ , A. Sullivan ² , A. Forero ¹ , P. Stoodley ¹ ; ¹ The Ohio State University, Columbus, OH, ² The Ohio State University Wexner Medical Center, Columbus, OH.
2022-A-174-ASM-BIO	103	<i>PSEUDOMONAS AERUGINOSA</i> POPULATION HETEROGENEITY IMPACTS INTRA AND INTERSPECIES MICROBIOGEOGRAPHY	S. Azimi , S. Diggle; Georgia State University, Atlanta, GA.
2022-A-183-ASM-BIO	104	HOW DEBRIDEMENT APPROACH AFFECTS BIOFILM DISPERSAL IN CHRONIC WOUNDS	R. E. Schneider , K. P. Rumbaugh; Texas Tech University Health Sciences Center, Lubbock, TX.
2022-A-193-ASM-BIO	105	Investigating host-microbiome interactions using dual-species biofilms within <i>in vivo</i> chronic wound environment	R. Gabriliska , K. Rumbaugh; Texas Tech Uni. Health Sci. Ctr., Lubbock, TX.
2022-A-194-ASM-BIO	106	INVESTIGATING THE ROLE OF HISTONE-INDUCED EXTRACELLULAR DNA AGGREGATES IN <i>STAPHYLOCOCCUS AUREUS</i> BIOFILMS	P. S. Rana ¹ , E. S. Gloag ² , D. J. Wozniak ¹ ; ¹ The Ohio State University, Columbus, OH, ² Virginia Tech, Blacksburg, VA.
2022-A-196-ASM-BIO	107	Characterization Of Monospecies And Polymicrobial Biofilms By Bovine Respiratory Disease Pathogens And Identification Of Novel Agents That Reduce Established Biofilms	T. J. Inzana ¹ , D. Cao ¹ , Y. Lee ¹ , W. Weng ¹ , N. Vogelaar ² , P. Sobrado ² ; ¹ Long Island University, Brookville, NY, ² Virginia Tech, Blacksburg, VA.
2022-A-210-ASM-BIO	108	<i>STAPHYLOCOCCUS AUREUS</i> COLLAGEN BINDING ADHESIN ACTS AS AN IMMUNE EVASION FACTOR IN SKIN WOUNDS	M. Bhattacharya ¹ , J. M. Kwiecinski ² , A. R. Horswill ¹ ; ¹ University of Colorado School of Medicine, Aurora, CO, ² Jagiellonian University, Krakow, POLAND.
2022-A-226-	109	AGGREGATION INDEPENDENT OF BIOFILM FORMATION DRIVES ANTIBIOTIC	M. A. Greenwald , C. Reist, T. B. Franklin, M. C. Wolfgang;



ASM-BIO		TOLERANCE OF <i>PSEUDOMONAS AERUGINOSA</i> IN AIRWAY MUCUS	University of North Carolina, Chapel Hill, NC.
2022-A-266-ASM-BIO	110	<i>CLOSTRIDIODES DIFFICILE</i> BIOFILM FORMATION IN COLONIC MUCOSA IS ASSOCIATED WITH RECURRENT <i>C. DIFFICILE</i> INFECTION	M. Pu ¹ , D. Schupack ¹ , I. Comba ¹ , A. Godoy ² , A. Ferris ³ , P. Kashyap ¹ ; ¹ Mayo Clinic, Rochester, MN, ² San Francisco State University, San Francisco, CA, ³ California Polytechnic State University, San Luis Obispo, CA.
2022-A-285-ASM-BIO	111	HISTIDINE KINASE BINK IS A KEY MEDIATOR OF BIOFILM SIGNALING DURING <i>VIBRIO FISCHERI</i> HOST COLONIZATION	D. A. Ludvik , N. Rosario-Melendez, M. J. Mandel; University of Wisconsin-Madison, Madison, WI.
2022-A-287-ASM-BIO	113	A ubiquitous biofilm-promoting large plasmid of the gut microbiota	L. García-Bayona ¹ , N. Said ¹ , A. Gutierrez Camacho ² , M. J. Coyne ¹ , N. Elmekki ¹ , L. E. Comstock ¹ ; ¹ University of Chicago, Chicago, IL, ² Universidad de Puerto Rico Mayaguez, Mayaguez, PR.
2022-A-294-ASM-BIO	114	IN DEPTH CHARACTERIZATION OF BACTERIAL BIOFILMS IN CHRONIC WOUNDS	T. H. Jakobsen ¹ , A. S. Iversen ¹ , M. Lichtenberg ¹ , K. Kirketerp-Møller ² , H. Gottlieb ³ , T. Bjarnsholt ¹ ; ¹ University of Copenhagen, Copenhagen, DENMARK, ² Bispebjerg Hospital, Copenhagen, DENMARK, ³ Herlev Hospital, Herlev, DENMARK.
2022-A-300-ASM-BIO	115	RNA SEQ ANALYSIS OF DUAL AND TRIPLE SPECIES BIOFILMS GIVE INSIGHT INTO INTERACTION AND COMPETITION AMONG LUNG PATHOGENS IN THEIR NICHE	R. Moll ¹ , I. Alio ¹ , T. Hoffmann ¹ , H. Rohde ² , U. Mamat ³ , U. Schaible ³ , K. Papenfort ⁴ , W. Streit ¹ ; ¹ Universität Hamburg, Hamburg, GERMANY, ² UKE, Hamburg, GERMANY, ³ Research Center Borstel, Borstel, GERMANY, ⁴ Papenfortlab, Hamburg, GERMANY.
2022-A-305-ASM-BIO	116	<i>IN VITRO</i> EVALUATION OF <i>E. coli</i> -GREEN FLUORESCENT PROTEIN TRANSLOCATION IN THE 3D PRINTED VASCULAR GRAFT MATERIAL	A. Sharma , A. D. Jones, III; Duke University, Durham, NC.



2022-A-318-ASM-BIO	117	Anti-amyloidogenic Protein Gastrokine-1 Inhibits <i>Citrobacter</i> Biofilm Formation	M. Hiller ¹ , M. Gomulinski ² , A. Boger-May ³ , M. Chapman ² , D. Boone ³ ; ¹ University of Notre Dame, South Bend, IN, ² University of Michigan, Ann Arbor, MI, ³ Indiana University School of Medicine, South Bend, IN.
2022-A-324-ASM-BIO	118	GUT MICROBIOME PERTURBATION UPON SYSTEMIC EXPOSURE TO ENTERIC BIOFILM AMYLOID, CURLI	S. Bessho ¹ , K. Krylchuck ¹ , K. Grando ¹ , A. Miller ¹ , V. Tam ¹ , W. Zhu ² , S. Gallucci ³ , C. Tukul ¹ ; ¹ Temple University, Philadelphia, PA, ² Vanderbilt University Medical Center, Nashville, TN, ³ University of Massachusetts Medical School, Worcester, MA.
2022-A-341-ASM-BIO	119	Z-form DNA is present within biofilms adherent to mucosa recovered during endoscopic surgery from children with chronic rhinosinusitis	J. A. Jurcisek ¹ , L. Hofer ¹ , C. A. Elmaraghy ² , S. D. Goodman ¹ , L. O. Bakaletz ¹ ; ¹ Abigail Wexner Research Institute/Nationwide Child Hosp, Columbus, OH, ² Nationwide Child Hospital pediatric ENT, Columbus, OH.
2022-A-347-ASM-BIO	120	Protein Acetylation Regulates <i>Streptococcus gordonii</i> Biofilms	J. P. O'Brien ¹ , F. Saavedra ¹ , V. Van Loi ² , L. Adrian ³ , I. Choi ¹ , H. Antelmann ² , M. C. Herzberg ¹ , B. P. Lima ¹ ; ¹ University of Minnesota, Minneapolis, MN, ² Freie Universität Berlin, Berlin, GERMANY, ³ Technische Universität Berlin, Berlin, GERMANY.
2022-A-351-ASM-BIO	121	INTERPLAY BETWEEN <i>SALMONELLA</i> BIOFILM-ASSOCIATED PROTEIN CURLI AND GENETIC RISK FACTOR HLA-B27 IN REACTIVE ARTHRITIS	K. Grando , S. Bessho, K. Harrell, L. Nicastro, A. Miller, C. Tukul; Temple University, Philadelphia, PA.
2022-A-357-ASM-BIO	122	TRANSCRIPTOMIC RESPONSE OF BIOFILMS OF SKIN COMMENSALS <i>STAPHYLOCOCCI AUREUS</i> & <i>EPIDERMIDIS</i> , AND <i>CUTIBACTERIUM ACNES</i> IN RESPONSE TO INFLAMMATION	A. Wrench , S. Childs, S. Razgaleh, A. D. Jones, III; Duke University, Durham, NC.



2022-A-363-ASM-BIO	123	THE UNKNOWN <i>Listeria</i> -PLANT BIOFILMS	A. M. Fulano , A. M. Elbakush, M. Gomelsky; University of Wyoming, Laramie, WY.
2022-A-366-ASM-BIO	124	BACTERIAL BIOFILM MAPPING ON EXPLANTED ORTHOPEDIC HARDWARE: A CONTINUED ANALYSIS AND FURTHER STATISTICAL REVIEW OF 31 CONSECUTIVE CASES	K. A. Sikiric , J. Brooks, D. Chonko, M. Pigott, A. Mafi, P. Stoodley; The Ohio State University, Columbus, OH.
2022-A-372-ASM-BIO	125	REGULATION OF <i>PSEUDOMONAS AERUGINOSA</i> VIRULENCE GENES IN CYSTIC FIBROSIS LUNG MODEL	I. Laubach , C. Balkanski, J. Sanders, M. Peterson; Perfectus Biomed Group, Jackson, WY.
2022-A-373-ASM-BIO	126	Interaction of <i>S. aureus</i> with <i>S. epidermidis</i> when mimicking Atopic Dermatitis conditions	R. Takor , C. N. H. Marques, M. Klm, G. K. German; Binghamton University, Binghamton, NY.
2022-A-377-ASM-BIO	127	Effects of Engineered Nanoparticles on Human Gut Microbiota	J. V. Tanzman , C. N. H. Marques, G. J. Mahler; Binghamton University, Vestal, NY.
2022-A-378-ASM-BIO	128	A Static Biofilm Assay for the Assessment of Strain Variation and Complement-Antibiotic Synergism Against Non-Typeable <i>Haemophilus influenzae</i> Biofilms.	S. R. Thomas , A. Gorringer, S. Taylor; UK Health Security Agency, Salisbury, UNITED KINGDOM.
2022-A-387-ASM-BIO		LYSOGENIZATION OF PATIENT DERIVED <i>S. AUREUS</i> BY <i>HLB</i> -CONVERTING BACTERIOPHAGE (SA3INT) EQUIPS BACTERIA WITH IMMUNE MODULATORY TOXINS AND ENHANCES BIOFILM FORMATION	R. Nepal , G. Houtak, G. Bouras, A. Psaltis, P. Wormald, S. Vreugde; The University of Adelaide, Adelaide, AUSTRALIA.
2022-A-393-ASM-BIO	130	STREPTOCOCCUS GENETIC FACTORS INFLUENCING POLYMICROBIAL BIOFILMS IN THE CYSTIC FIBROSIS AIRWAY	R. Rogers , F. Jean-Pierre, G. A. O'Toole; Dartmouth College, Hanover, NH.



2022-A-85-ASM-BIO		sdfaf	B. Kim ¹ , C. S. Maducoma ² , J. D. Shrout ² , R. Nerenberg ² ; ¹ University of Wisconsin-Madison, Madison, WI, ² University of Notre Dame, Mishawaka, IN.
2022-A-108-ASM-BIO	134	Sensitivity enhancement of a ssDNA sensor for the detection of <i>E. coli</i> and <i>E. flexneri</i> through ECL	E. Teruel-Barandiarán ¹ , Y. Pellegrin ² , R. Forster ¹ ; ¹ Dublin City University, Dublin, IRELAND, ² Université de Nantes, Nantes, FRANCE.
2022-A-109-ASM-BIO	136	AN INNATE HOST DEFENSE PROTEIN, β -2-MICROGLOBULIN, PREVENTS BIOFILM FORMATION VIA BLOCKING FUNCTIONAL AMYLOID: IMPLICATIONS IN DIALYSIS RELATED KIDNEY INFECTIONS	N. Jain , H. Agarwal, K. Rani; Indian Institute of Technology Jodhpur, Nagaur, INDIA.
2022-A-111-ASM-BIO	137	<i>SALMONELLA</i> BIOFILM INHIBITORS: SPECTRUM OF ACTIVITY AND EFFECTIVENESS IN CURING LONG-TERM CARRIERS	A. N. Bennett ¹ , J. S. Gunn ² ; ¹ The Ohio State University College of Medicine, Columbus, OH, ² Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH.
2022-A-131-ASM-BIO		Serratiopeptidase affects adhesive features of <i>Pseudomonas aeruginosa</i> isolates from cystic fibrosis patients on biotic and abiotic substrates	M. Artini , G. Vrenna, R. Papa, L. Selan; SAPIENZA UNIVERSITY, Rome, ITALY.
2022-A-132-ASM-BIO	139	Biomimetic surfaces inspired by cabbage leaves for <i>Escherichia coli</i> biofilm prevention in the food industry	L. Gomes ¹ , F. Saubade ² , M. Amin ² , J. Spall ² , C. Liauw ² , F. Mergulhao ¹ , K. Whitehead ² ; ¹ FEUP - Faculty of Engineering, University of Porto, Porto, PORTUGAL, ² Department of Life Sciences, Microbiology at Interfaces, Manchester Metropolitan University, Chester Street, Manchester M15GD, UK, Manchester, UNITED KINGDOM.
2022-A-156-	140	PRODUCTION AND RELEASE OF AN IRON-CHELATING FACTOR BY <i>PSEUDOMONAS AERUGINOSA</i> INHIBITS BIOFILM	S. Rayi , C. Fuqua, J. P. Gerdt; Indiana University Bloomington, Bloomington, IN.



ASM-BIO		FORMATION BY <i>AGROBACTERIUM TUMEFACIENS</i>	
2022-A-157-ASM-BIO		SURFACE MODIFICATION OF TITANIUM IMPLANTS TO TITANIUM DISULFIDE FOR ENHANCED ANTIMICROBIAL EFFECT	D. Roh ¹ , H. Tinker ¹ , J. Vickers ¹ , P. Fathihafshejani ² , M. Mahjouri-Samani ² , S. Hasim ¹ ; ¹ Mercer University, Macon, GA, ² Auburn University, Auburn, AL.
2022-A-162-ASM-BIO	142	Potential probiotic, <i>Bacillus subtilis</i> , to counteract <i>Candida albicans</i> and <i>Candida auris</i> virulence and infections	L. Kunyeit , R. P. Rao; Worcester Polytechnic Institute, Worcester, MA.
2022-A-164-ASM-BIO	143	STANDARDIZED NANO-TOPOGRAPHICAL ARRAYS TO STUDY BACTERIAL SURFACE INTERACTION	S. Goonetilleke , J. VanEpps; University of Michigan - Ann Arbor, Ann Arbor, MI.
2022-A-168-ASM-BIO	144	EVALUATION OF ANTI-BIOFILM EFFICACY OF HYDROGELS ON PORCINE DERMAL EXPLANTS WITH WOUND-SPECIFIC MATURE BIOFILM	L. E. Estlack , B. J. Rodier, R. E. McMahon; Rochal Technologies, San Antonio, TX.
2022-A-176-ASM-BIO	145	K-AUREIN, A NOTABLE AUREIN 1.2-DERIVED PEPTIDE AGAINST VIRULENCE FACTORS, PLANKTONIC GROWTH AND BIOFILM PRODUCTION OF <i>Candida albicans</i> ISOLATES	V. A. Carneiro ¹ , M. L. Silva ² , M. N. Carneiro ¹ , R. M. B. Cavalcante ² , R. O. S. Fontenelle ³ , E. N. Lorenzón ⁴ , E. M. Cilli ⁵ , E. M. Cilli ⁵ ; ¹ University Center INTA, Sobral, BRAZIL, ² Federal University of Ceara – UFC, Sobral, BRAZIL, ³ University Estate of Vale do Acaraú UVA, Sobral, BRAZIL, ⁴ Federal University of Jataí, Jataí, BRAZIL, ⁵ Estadual University of São Paulo – UNESP, Araraquara, BRAZIL.
2022-A-178-ASM-BIO	146	SILVER CARBOXYLATE SHOWS PENETRANCE OF <i>Staphylococcus aureus</i> MW2 AND VRS1 BIOFILMS AND HINDERS VIABILITY OF PERSISTENT CELLS	D. Garcia , M. Mette, A. Steinbaum, C. Lai, S. Allu, B. Stone, C. Whitaker, V. Antoci, C. Born; Brown University, Providence, RI.
2022-A-179-	147	ENHANCING THE ANTIMICROBIAL EFFECT OF TITANIUM IMPLANTS BY LASER SURFACE MODIFICATIONS	K. FREEL ¹ , D. Roh ¹ , P. Fathi-Hafshejani ² , M. Mahjouri-Samani ² , S. Hasim ¹ ;



ASM-BIO			¹ Mercer University, Macon, GA, ² Auburn University, Auburn, AL.
2022-A-182-ASM-BIO	148	DISRUPTION OF <i>STREPTOCOCCUS MUTANS</i> AND <i>CANDIDA ALBICANS</i> INTERKINGDOM BIOFILMS BY A HOST-DERIVED POLYPEPTIDE	S. Balu , L. O. Bakaletz, S. D. Goodman; Abigail Wexner Research Institute at Nationwide Children's Hospital, COLUMBUS, OH.
2022-A-191-ASM-BIO	149	EFFECT OF TOBRAMYCIN-LOADED PLGA MICROPARTICLES AND ULTRASOUND ON <i>Pseudomonas aeruginosa</i> BIOFILMS	L. Bharatula ¹ , X. Su ¹ , M. Pramanik ¹ , S. A. Rice ² , J. J. Kwan ³ ; ¹ Nanyang Technological University, Singapore, SINGAPORE, ² CSIRO, Canberra, AUSTRALIA, ³ University of Oxford, Oxford, UNITED KINGDOM.
2022-A-200-ASM-BIO	150	Xylitol activity on <i>Staphylococcus aureus</i> and <i>Cutibacterium acnes</i> biofilms from infectious skin lesions	A. Farinati, Senior , A. Fernández Nuñez, R. Rollet, Senior, M. Quinteros, Senior, V. Conforte, M. Cassara, C. Rivero, P. Luna; USAL, Martinez, ARGENTINA.
2022-A-212-ASM-BIO	151	Ferumoxytol-mediated nanocatalysis for clinical reduction of endodontic biofilm infections	A. Babeer , Y. Liu, Z. Ren, M. Oh, R. Huang, C. Chen, B. Karabucak, H. Koo, Z. Xiang; University of Pennsylvania, Philadelphia, PA.
2022-A-213-ASM-BIO		Effectiveness of a UVC system against <i>Bacillus subtilis</i> spores on ultrasonic probes	M. Yasir ¹ , A. Kobylinski ² , M. D. P. Willcox ¹ ; ¹ University of New South Wales Australia, Sydney, AUSTRALIA, ² Lumicare, Sydney, AUSTRALIA.
2022-A-217-ASM-BIO	153	Investigation of antifungal and antibiofilm activities of <i>Candida albicans</i> using green synthesized silver nanoparticles	I. AHAMAD , I. Ahamad; Jamia Millia Islamia, New Delhi, INDIA.
2022-A-227-ASM-BIO	155	Specific signal disruption induces distinct changes in microbial biofilm population structure	M. Beauclaire , J. Smith, M. Elias; University of Minnesota-Twin Cities, St Paul, MN.



2022-A-232-ASM-BIO	156	IMPROVING THERMAL STABILITY AND ALTERING SUBSTRATE SPECIFICITY OF QUORUM QUENCHING ACYLASES	K. Sompiyachoke , M. Elias; University of Minnesota, Minneapolis, MN.
2022-A-233-ASM-BIO	157	IN-VITRO ANTIBIOFILM ACTIVITY OF ALPHA LIPOIC ACID AND LIPOAMIDE AGAINST ESCHERICHIA COLI BIOFILM	M. Mansouri , D. L. Mansouri; Baylor College of Medicine, Houston, TX.
2022-A-249-ASM-BIO	158	Sodium salicylate as a quorum sensing inhibitor in <i>Staphylococcus aureus</i> - modulating virulence, biofilm and antimicrobial susceptibility	A. B. Turner ¹ , E. Gerner ¹ , R. Firdaus ¹ , M. Echeverez ² , M. Werthén ¹ , P. Thomsen ¹ , S. Almqvist ³ , M. Trobos ¹ ; ¹ University of Gothenburg, Göteborg, SWEDEN, ² Public University of Navarre, Pamplona, SPAIN, ³ Mölnlycke Healthcare, Göteborg, SWEDEN.
2022-A-256-ASM-BIO	160	EFFECT OF THE ESSENTIAL OIL FROM <i>LIPPIA ORIGANOIDES</i> CHEMOTYPE THYMOL CARVACROL (LTC II) ON THE <i>IN VITRO</i> INHIBITION OF BIOFILM-FORMING MICROORGANISMS FROM EGG-LAYING HEN FARMS	M. J. Mantilla ¹ , J. A. Ruiz ² , S. A. Marchant ² , R. G. Torres ² ; ¹ Universidad Autónoma de Bucaramanga, Bucaramanga, COLOMBIA, ² Universidad Industrial de Santander, Bucaramanga, COLOMBIA.
2022-A-259-ASM-BIO	161	ANTI-BIOFILM ACTIVITY OF ESSENTIAL OILS AND PLANT EXTRACTS AGAINST <i>Candida albicans</i> , <i>C. auris</i> AND <i>C. parapsilosis</i>	J. A. Ruiz , C. C. Ortiz López; Universidad Industrial de Santander, Bucaramanga, COLOMBIA.
2022-A-276-ASM-BIO		Targeting Polymicrobial Infection with Local Release Technology	R. Falconer , W. Kay, C. Hunt, J. Adams, A. Miller, K. Hysten, T. Smith, L. Nehring, N. Ashton, D. Williams; University of Utah, Salt Lake City, UT.
2022-A-282-ASM-BIO		Anti-Biofilm Activity of Second-Generation Guanidine-Embedded Anthranilamides	R. Kuppusamy , S. Chakraborty, K. Browne, R. Chen, M. Yasir, M. Willcox, N. Kumar; UNSW, Sydney, AUSTRALIA.
2022-A-288-ASM-BIO	163	Can synthetic macromolecules function as antibiofilm agents?	A. Vishwakarma , A. Joy, F. Dang, H. A. Barton, Z. Chen; The University of Akron, Akron, OH.



2022-A-301-ASM-BIO	164	Anti-biofilm activity of microalgae cultivated in industrial biofilm-based reactor	A. PAVAUX ¹ , F. GUIHENEUF ² , J. DESCHAMPS ³ , A. FANESI ¹ , R. BRIANDET ³ , F. LOPES ¹ ; ¹ CentraleSupélec, Gif sur yvette, FRANCE, ² INALVE, Nice, FRANCE, ³ INRAE, Jouy en josas, FRANCE.
2022-A-304-ASM-BIO	165	Bacteriophage-induced entropic aggregation of <i>Pseudomonas aeruginosa</i>	R. E. Edmiston ¹ , S. Azimi ² , J. S. Weitz ¹ , S. P. Diggle ¹ , J. E. Curtis ¹ ; ¹ Georgia Institute of Technology, Atlanta, GA, ² Georgia State University, Atlanta, GA.
2022-A-308-ASM-BIO	166	EFFECT OF HYDROGEN DISULFIDE RELEASING COMPOUNDS AGAINST <i>Staphylococcus aureus</i> AND <i>Pseudomonas aeruginosa</i>	D. R. Campbell ¹ , S. Sarkar ¹ , J. B. Matson ² , N. H. Levi ¹ ; ¹ Wake Forest University, Winston Salem, NC, ² Virginia Tech, Blacksburg, VA.
2022-A-312-ASM-BIO	167	FIBRIN BASED NANOPARTICLE INFILTRATION OF STAPHYLOCOCCUS AUREUS BIOFILMS	G. Scull ¹ , A. Aligwekwe ¹ , D. Koch ² , J. Sollinger ² , A. Sheridan ¹ , J. Gilbertie ³ , L. Schnabel ² , K. Nellenbach ¹ , A. C. Brown ¹ ; ¹ North Carolina State University & UNC-Chapel Hill, Raleigh, NC, ² North Carolina State University, Raleigh, NC, ³ Edward Via College of Osteopathic Medicine, Blacksburg, VA.
2022-A-315-ASM-BIO	168	Anti-biofilm activity of <i>Lippia organoides</i> essential oil against Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) ATCC 43300	S. Correa , J. Ruiz, S. Mendez Sanchez; Universidad Industrial de Santander, Bucaramanga, COLOMBIA.
2022-A-317-ASM-BIO	169	BACTERIOPHAGE TO TREAT MULTIDRUG RESISTANT <i>Staphylococcus aureus</i> OSTEOMYELITIS INFECTIONS WITH BIODEGRADABLE MICROSPHERE TECHNOLOGY	H. B. Kaplan ¹ , A. J. Narro ¹ , E. Brown ¹ , V. Ubha ² , J. P. Jacob ¹ , C. G. Ambrose ¹ ; ¹ McGovern Medical School, Houston, TX, ² Texas Tech University, Lubbock, TX.
2022-A-319-ASM-BIO	170	BIOPHYSICAL EFFECT OF NANOTOPOGRAPHIES ON <i>STAPHYLOCOCCUS AUREUS</i> BIOFILMS DEVELOPMENT	N. K. Bari , A. Aung, D. Yessayan, A. S. Nain, B. Behkam; Virginia Tech, Blacksburg, VA.



2022-A-320-ASM-BIO	171	ANTIMICROBIAL COATING BASED ON QUORUM SENSING INHIBITORS FOR THE PREVENTION OF MICROBIAL INDUCED CORROSION OF ROCK AND CABLE BOLTS	R. Chen , S. Chakraborty, V. Agarwal, H. Chen, O. Kimyon, H. L. Ramandi, S. Saydam, N. Kumar; University of New South Wales, Kensington, AUSTRALIA.
2022-A-321-ASM-BIO	172	PLASMA FUNCTIONALIZED LIQUID A NOVEL APPROACH TO CONTROL PATHOGENIC BIOFILMS ASSOCIATED WITH THE POULTRY PROCESSING CHAIN	S. Barroug , P. Bourke; University College Dublin, Dublin, IRELAND.
2022-A-323-ASM-BIO	173	USING NANOSECOND PULSED ELECTRIC FIELDS TO SENSITIZE METHICILLIN RESISTANT <i>STAPHYLOCOCCUS AUREUS</i> TO VANCOMYCIN TREATMENT	A. Malik , A. E. Chittams-Miles, C. Muratori, E. B. Purcell; Old Dominion University, Norfolk, VA.
2022-A-328-ASM-BIO	175	DESIGNING ENZYMES TO DISRUPT <i>PSEUDOMONAS AERUGINOSA</i> MUCOID BIOFILM	S. Felton , J. Kim, N. Akula, G. Kolling, J. Papin, B. Berger; University of Virginia, Charlottesville, VA.
2022-A-331-ASM-BIO	176	CHARACTERIZATION OF A MODIFIED DOMAIN WITHIN THE EUKARYOTIC HIGH MOBILITY GROUP BOX 1 (HMGB1) PROTEIN THAT PREVENTS BACTERIAL BIOFILM FORMATION	J. D. Rhodes , J. Wickham, S. D. Goodman, L. O. Bakaletz; Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH.
2022-A-332-ASM-BIO	177	SMALL-SCALE ROBOTS FOR BIOFILM TREATMENT AND SAMPLING	E. B. Steager , A. Babeer, M. Oh, Z. Ren, Y. Liu, B. Karabucak, H. Koo; University of Pennsylvania, Media, PA.
2022-A-333-ASM-BIO	178	NUTRIENT REMOVAL AS A BIOFILM FOULING CONTROL STRATEGY IN AN INTERNATIONAL SPACE STATION WATER RECOVERY SYSTEM	E. L. Sandvik , P. S. Stewart, D. M. Goeres, P. J. Sturman; Montana State University, Bozeman, MT.
2022-A-335-ASM-BIO	179	BREAKING BIOFILMS: TRUE ANTI-BIOFILM DISCOVERY IN <i>STREPTOCOCCUS MUTANS</i>	R. E. SLOUP, IV , J. S. Matson; University of Toledo, Toledo, OH.
2022-A-338-	180	Monoclonals that target extracellular DNABII proteins or the Type IV pilus of nontypeable <i>Haemophilus influenzae</i> (NTHI)	J. A. Jurcisek , S. D. Goodman, L. O. Bakaletz; Abigail Wexner Research



ASM- BIO		worked additively to disrupt 2-genera biofilms	Institute/Nationwide Child Hosp, Columbus, OH.
2022-A- 340- ASM- BIO	181	MULTIFUNCTIONAL NANOMATERIALS FOR LIGHT CONTROLLED ACTION <i>P. AERUGINOSA</i> BIOFILMS	V. Godakhindi , J. Vivero-Escoto; University of North Carolina at Charlotte, Charlotte, NC.
2022-A- 342- ASM- BIO	182	Using SMART magnetic fluids and gels for prevention and destruction of bacterial biofilms	J. Krol , G. Ehrlich; Drexel University, Philadelphia, PA.
2022-A- 350- ASM- BIO	183	<i>STAPHYLOCOCCUS AUREUS</i> BIOFILMS FORMED IN MILK DISPLAY RESISTANCE TO THE PHAGE LYTIC PROTEIN LYSRODIAAMI	S. Agun Garcia , L. Fernandez Llamas, P. Garcia Suarez, A. Rodriguez Gonzalez; CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, Villaviciosa, SPAIN.
2022-A- 352- ASM- BIO	184	EVALUATING THE ANTIBIOFILM ACTIVITY OF PRAVIBISMANE IN CYSTIC FIBROSIS-RELATED PATHOGENS	M. Zori ¹ , M. R. Parsek ¹ , R. E. Hernandez ² , B. H. J. Baker ³ ; ¹ Dept of Microbiology, University of Washington School of Medicine, Seattle, WA, ² University of Washington and Seattle Children's Research Institute, Seattle, WA, ³ Microbion Corporation, Bozeman, MT.
2022-A- 355- ASM- BIO	185	EFFECTS OF DAPHNETIN ON BIOFILM FORMATION AND MOTILITY OF <i>Pseudomonas aeruginosa</i>	Z. ye , k. wang, q. wei; Guangxi Medical University, Nanning, CHINA.
2022-A- 359- ASM- BIO		RESTRICTION OF <i>CANDIDA ALBICANS</i> BIOFILMS THROUGH 26S PROTEASOME INHIBITION	F. Gonzalez ; Microbiology, Glendale, AZ.
2022-A- 367- ASM- BIO	186	Altering the community composition of dental plaque biofilms using quorum quenching lactonases	R. Sikdar , B. P. Lima, M. Beauclaire, M. Herzberg, M. Elias; University of Minnesota, Saint Paul, MN.
2022-A- 383-	187	MUCIN COATINGS ON POLYDIMETHYLSILOXANE INHIBIT THE	Z. Han , D. Ren; Syracuse University, Syracuse, NY.



ASM- BIO		ATTACHMENT OF <i>PSEUDOMONAS AERUGINOSA</i>	
2022-A- 106- ASM- BIO	112	Pseudomonas aeruginosa Persister Cells Resist and Modulate the THP-1 Macrophage Immune Response	C. Hastings , C. Marques; Binghamton University, Vestal, NY.
2022-A- 218- ASM- BIO	129	Development of clinically relevant <i>in vitro</i> and <i>in vivo</i> intravenous catheter biofilm infection models for studying the efficacy of lock therapy	Y. Yoshii , S. Thiriet-rupert, A. Chauhan, D. Lebeaux, J. Ghigo, C. Beloin; Institut Pasteur, Paris, FRANCE.
2022-A- 273- ASM- BIO	188	ASSEMBLY OF ROBOTIC SUPERSTRUCTURES FOR BIOFILM REMOVAL AND PATHOGEN DETECTION	M. OH , Alaa Babeer, Yuan Liu, Zhi Ren, Jingyu Wu, David Issadore, Kathleen Stebe, Daeyeon Lee, Edward Steager, Hyun Koo; University of Pennsylvania, Philadelphia, PA.