## 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 |
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| 1 | 2022-A-69-ASM-BIO | 102 | Impact of a human gut microbe on *Vibrio cholerae* host colonization through biofilm enhancement | W. Ng¹, K. Barrasso¹, D. Chac², M. Debela³, C. Geigel⁵, A. Steenhaut¹, A. Rivera Seda¹, C. Dunmire², F. Midani³, J. Yan⁴, A. Weil²; ¹Tufts University School of Medicine, Boston, MA, ²University of Washington, Seattle, WA, ³Mass General Hospital, Boston, MA, ⁴Yale University, New Haven, CT, ⁵Baylor College of Medicine, Houston, TX. |
| 2 | 2022-A-73-ASM-BIO | 103 | Model for assessing the pH changes of *Streptococcus mutans* biofilms in real-time | M. Papangeli¹, D. Walsh², V. Chauhan¹, M. Perkins¹, V. Slomka³, J. Aylott¹, K. R. Hardie¹; ¹University of Nottingham, Nottingham, UNITED KINGDOM, ²University of Warwick, Coventry, UNITED KINGDOM, ³Unilever R&D Port Sunlight, |
| #  | Code       | Title                                                                 | Author                                                                 |
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| 3  | 2022-A-74-ASM-BIO | Genomic analyses of biofilm-forming and non-biofilm-forming *Escherichia coli* 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 | Disrupting Biofilms by Targeting Response Regulator Proteins in Biowarfare Agent *Francisella tularensis*. | M. E. Milton, J. Cavanagh; East Carolina University, Greenville, NC. |
| 5  | 2022-A-80-ASM-BIO | ANTIBIOTIC RESISTANCE TO CIPROFLOXACIN OF *STAPHYLOCOCCUS AUREUS* 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 | *Candida Albicans* Modulates *Streptococcus Mutans* 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 | NOVEL NANOHYBRID SYSTEM FOR TARGETING PATHOGENIC ORAL BIOFILMS IN VIVO | Y. Liu, Y. Huang, D. Cormode, H. Koo; University of Pennsylvania, Philadelphia, PA. |
| 8  | 2022-A-75-ASM-BIO | IMPACT OF "DEEP CLEANING" SANITIZATION ON NATURAL BIOFILM COMMUNITIES AND THE SURVIVAL OF *Salmonella enterica* | R. Wang, J. M. Bosilevac; ARS, USDA, Clay Center, NE. |
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| 9    | 2022-A-78-ASM-BIO | 109 | Role of flagellar associated *fliL* in biofilm formation and host independency of *Bdellovibrio bacteriovorus* | A. Mookherjee¹, S. Pietrokovski², E. Jurkevitch¹; ¹The Hebrew University of Jerusalem, Rehovot, ISRAEL, ²Weizmann 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. Shenkutie¹, L. Polly²; ¹St Paul's Hospital and Millennium Medical College, Addis Ababa, ETHIOPIA, ²The Hong Kong Polytechnic University, Hong Kong, HONG KONG. |
| 11   | 2022-A-83-ASM-BIO | 111 | INVASIVE NON-TYPHOIDAL SALMONELLA SEROVARS AND CHRONIC GALLBLADDER COLONIZATION | E. Vasicek, J. Gunn; Nationwide Children's Hospital, Columbus, OH. |
| 12   | 2022-A-87-ASM-BIO | 112 | *In situ* 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 ESKAPE 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 *Salmonella enterica* serovar Typhimurium | N. Sharma, A. Das, P. Raja, S. Marathe; Birla Institute of Technology and Science (BITS Pilani), Pilani, INDIA. |
| 15 | 2022-A-90-ASM-BIO | 115 | A GENOMIC GUIDE TO UNDERSTANDING BIOFILM FORMATION IN *STAPHYLOCOCCUS AUREUS* CLINICAL ISOLATES FROM EGYPT | A. Abouelfetouh¹, C. Putonti², A. Wolfe²; ¹Alexandria University and Alamein International University, Alexandria, EGYPT, ²Loyola University Chicago, Chicago, IL. |
| 16 | 2022-A-92-ASM-BIO | 116 | PROTEOSTASIS DISRUPTION LEADS TO COLLAPSE OF THE ARCHITECTURE OF *Bacillus subtilis* 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 *Bordetella pertussis* BIOFILMS ON PRIMARY HUMAN AIRWAY EPITHELIUM | J. L. Gutierrez-Ferman¹, A. R. Fullen¹, R. E. Rayner¹, S. Kim¹, P. Chen², P. Dubey¹, D. J. Wozniak¹, M. E. Peeples², E. Cormet-Boyaka¹, R. Deora¹; ¹The Ohio State University, Columbus, OH, ²Nationwide 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. |
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| 20      | 2022-A-118-ASM-BIO | 121  | EVALUATION OF THE EFFICACY OF SYNTHESIZED SILVER NANOPIRNTICLES 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  | *Vibrio parahaemolyticus* and *Vibrio vulnificus* 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 LACTOCOCCUS LACTIS AND LEUCONOSTOC MESENTEROIDES IN BIOFILM ACCELERATES VARIANT EMERGENCE AND COEXISTENCE | H. T. Kiesewalter¹, N. N. E. Henriksen², M. F. Hansen¹, J. Russel¹, J. Nesme¹, K. R. Foster³, B. Svensson², G. Øregaard⁴, J. Herschend⁴, M. Burmølle¹; ¹University of Copenhagen, Copenhagen, DENMARK, ²Technical University of Denmark, Kongens Lyngby, DENMARK, ³University of Oxford, Oxford, UNITED KINGDOM, ⁴Chr. Hansen A/S, Hørsholm, Denmark, ⁵Novozymes 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 PSEUDOMONAS AERUGINOSA BIOFILM MATRIX COMPOSITION DUE TO ANAEROBIC GROWTH | K. Duong, M. Barrington, N. Fazio, C. Reichhardt; 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 Ghandehari¹, J. Boyer¹, I. Van Benschoten¹, C. Hapeman², A. Torrents¹, B. Kjellerup¹; ¹University of Maryland, College Park, MD, ²United 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 Neisseria gonorrhoeae 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. DIBUA¹, E. I. CHUKWURA²; ¹Chukwuemeka Odumegwu Ojukwu University, Uli, NIGERIA, ²Nnamdi Azikiwe University, Awka, NIGERIA. |
| 31   | 2022-A-123-ASM-BIO | 132 | WspA domains influence *Pseudomonas aeruginosa* biofilm formation and infection | L. O'Neal¹, Z. Suo², C. S. Harwood¹, M. R. Parsek¹; ¹University of Washington, Seattle, WA, ²South China Agricultural University, Guangzhou, CHINA. |
| 32   | 2022-A-138-ASM-BIO | 133 | BACTERIAL MOBBING: TARGETING AND COMMUNICATION IN *Pseudomonas aeruginosa* 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 *STAPHYLOCOCCUS AUREUS* IN PLATELET CONCENTRATES | S. I. Chi¹, J. Bearne², C. McDonald², S. Ramirez-Arco³; ¹Medical Affairs and Innovation, Canadian Blood Services, Ottawa, ON, CANADA, ²National Health Service Blood and Transplant, London, UNITED KINGDOM. |
| 34   | 2022-A-199-ASM-BIO | 135 | Peptide-Responsive Aggregation in Marine Bacteria *Alteromonas* 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-ASM-BIO | 136 | Outer Membrane Lipoprotein and β-Barrel Protein Complexes Mediate Surface Sensing in *Escherichia coli* | T. H. S. Cho, J. Wang, T. L. Raivio; University of Alberta, |
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| 36           | CITRATE STIMULATES A NOVEL ADHERENCE PHENOTYPE THROUGH CbrAB-Crc SIGNALING IN PSEUDOMONAS AERUGINOSA | A. C. Conaway, D. L. Mould, N. J. Botelho, D. A. Hogan; Geisel School of Medicine at Dartmouth, Hanover, NH. | Edmonton, AB, CANADA.                                                      |
| 37           | CHEMOTAXIS SYSTEM REGULATED FLAGELLAR ROTATION, BUT NOT CHEMOTAXIS, CONTRIBUTES TO THE BIOFILM FORMATION OF HELICOBACTER PYLORI | X. Liu, K. Ottemann; University of California at Santa Cruz, santa cruz, CA. |                                                                             |
| 38           | CHARACTERIZATION OF A HOMOLOGOUS CPX ENVELOPE STRESS RESPONSE SYSTEM IN PSEUDOMONAS AERUGINOSA PAO1 | M. O’Malley¹, T. Cho², T. Raivio², M. Parsek¹; ¹University of Washington, Seattle, WA, ²University of Alberta, Edmonton, AB, CANADA. |                                                                             |
| 39           | INVESTIGATING NATIVE MUCIN INHIBITION OF PSEUDOMONAS AERUGINOSA SURFACE ATTACHMENT | S. Lamont¹, K. Ribbeck², D. Wozniak¹; ¹The Ohio State University, COLUMBUS, OH, ²Massachusetts Institute of Technology, Cambridge, MA. |                                                                             |
| 40           | SURFACE SENSING IN PSEUDOMONAS AERUGINOSA: ACTIVATION OF THE PIL-CHP SYSTEM THROUGH TYPE IV PILI ACTIVITY | C. Geiger, S. Kuchma, G. O’Toole; Dartmouth College, Hanover, NH.         |                                                                             |
| 41           | Distinct roles of multicopy flagellin genes in motility and adhesion to stainless-steel surface in a metal corrosive marine bacterium | D. Miyagawa¹, N. Obana¹, N. Ito¹, S. Aizawa², Y. Miyano³, N. Nomura¹; ¹University of Tsukuba, Tsukuba, |
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| 42      | Substrate stiffness impacts colony formation by *Pseudomonas aeruginosa* 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      | *Vibrio fischeri* LitR Negatively Regulates SYP- and Cellulose-Dependent Biofilms | B. L. Fung, K. L. Visick; Loyola University Chicago, Maywood, IL.                         |
| 44      | 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, Pennsylvania, 4. Helmholtz Centre for Environmental Research, Leipzig, Germany. |
| 45      | THE MASTER REGULATOR FleQ POST-TRANSCRIPTIONALLY REGULATES THE PRODUCTION OF RTX ADHESINS IN *Pseudomonas fluorescens* | A. B. Pastora, G. A. O'Toole, Jr; Geisel School of Medicine. |
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| 46   | 2022-A-302-ASM-BIO | PLANKTONIC VERSUS BIOFILM ASSOCIATED GROWTH IN PSEUDOMONAS               | J. J. Dennehy, Y. A. Mejia, M. Trujillo, F. Spagnolo; Queens College, Queens, NY. | Medicine at Dartmouth, Hanover, NH.               |
| 47   | 2022-A-314-ASM-BIO | 4-ETHOXYBENZOIC ACID (4EB) ATTENUATES BIOFILM FORMATION AND VIRULENCE FACTOR PRODUCTION IN STAPHYLOCOCCUS AUREUS ATCC 6538 | C. Taylor, A. Marchesani, E. Sen, E. S. Gilbert; Georgia State University, Atlanta, GA. |                                                    |
| 48   | 2022-A-70-ASM-BIO | Modelling Surface Charge Effects on Nanoparticle Accumulation in Bacterial Biofilms | J. Prince, I. Brar, A. Jones, D. Tento, S. Childs; Duke University, Durham, NC, Entegris, Billerica, MA. |                                                    |
| 49   | 2022-A-95-ASM-BIO | 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 | MORPHOLOGY AND MECHANICS OF Candida albicans FUNGAL BIOFILMS             | C. Abriot, M. LaCascia, A. Kumar, M. Solomon; University of Michigan, Ann Arbor, MI. |                                                    |
| 51   | 2022-A-144-ASM-BIO | SINGLE-CELL MANIPULATION OF PSEUDOMONAS AERUGINOSA USING A MICROFLUIDIC PLATFORM | C. Miller, S. Darch; University of South Florida, Tampa, FL.             |                                                    |
| 52   | 2022-A-152-ASM-BIO | SPECTROSCOPIC DETECTION OF WEAK AND HARD-TO-DETECT LISTERIA MONOCYTOGENES 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; |                                                    |
| Page | ASINCAR, Oviedo, SPAIN. | NON-DESTRUCTIVE, IN-SITU DETERMINATION OF BIOFILM GROWTH DYNAMICS IN REAL TIME |
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| 53   | 2022-A-163-ASM-BIO    | H. R. Teel¹, C. E. Turick², S. Shimpalee³; ¹University of South Carolina, Columbia, SC, ²ElectroBioDyne, LLC, Aiken, SC, ³University of South Carolina, Aiken, SC. |
| 54   | 2022-A-197-ASM-BIO    | The Efficacy Of Antioxidant-Antibiotic Combination Therapy On Achromobacter Xylosoxidans In A Cystic Fibrosis Lung Cell Model |
| 55   | 2022-A-205-ASM-BIO    | A. Aiyer, ¹ T. Das Ashish Kumar¹, G. S. Whiteley¹, T. Glasbey², F. H. Kriel², J. Farrell¹, J. Manos¹; ¹University of Sydney, Sydney, AUSTRALIA, ²Whiteley Corporation, Sydney, AUSTRALIA. |
| 56   | 2022-A-261-ASM-BIO    | ELECTROCHEMICAL QUANTIFICATION OF P. AERUGINOSA BIOFILMS, AND REDUCTION USING EXTRACTED BACTERIAL SECONDARY METABOLITES |
| 57   | 2022-A-280-ASM-BIO    | M. McGlennen, M. Dieser, C. M. Foreman, S. Warnat; Montana State University, Bozeman, MT. |
| 58   | 2022-A-291-ASM-BIO    | MECHANISM OF BIOFILM FORMATION IN DESULFOVIBRIO VULGARIS HILDENBOROUGH |
| 59   | 2022-A-307-ASM-BIO    | A. Karbelkar¹, T. Smith¹, H. Sondermann², G. O'Toole³; ¹Dartmouth College, Hanover, NH, ²Cornell University, Ithaca, ³Oregon State University, Corvallis, OR. |
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| 1     | 2022-A-185-ASM-BIO | 101 | KEEP IT TOGETHER: EMERGENT PROPERTIES OF MULTISPECIES BIOFILM MATRIX | C. Amador¹, H. L. Røder¹, U. Kuhlcke², T. R. Neu², M. Burmølle¹; ¹Copenhagen University, Copenhagen, DENMARK, ²Helmholtz Centre for Environmental Research-UFZ, Magdeburg, GERMANY. |
| 58    | 2022-A-202-ASM-BIO | 120 | LIPOPROTEIN MUTATIONS THAT IMPACT BIOFILM MORPHOLOGY IN UROPATHOGENIC ESCHERICHIA COLI | 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. Jackson¹, A. Finnie², S. Dennington¹, J. Longyear², J. Wharton¹, P. Stoodley³; ¹Southampton University, Southampton, UNITED KINGDOM, ²AkzoNobel, Gateshead, UNITED KINGDOM, ³Ohio State University, Columbus, OH. |
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| 2 | 2022-A-186-ASM-BIO | 102 | STREPTOCOCCUS GLUCOSYLTRANSFERASE ACTIVITY MEDIATE CROSS-KINGDOM INTERACTIONS WITH CANDIDA ON TITANIUM | J. G. S. Souza¹, M. Bertolini², A. Thompson², V. A. R. Barao³, M. M. Vickerman⁴, A. Dongari-Bagtoglou²; ¹Guarulhos University, Guarulhos, BRAZIL, ²University of Connecticut School of Dental Medicine, Farmington, CT, ³Piracicaba Dental School, University of Campinas, Piracicaba, BRAZIL, ⁴School 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 PSEUDOMONAS AERUGINOSA BIOFILMS | N. Fazio, M. BoClair, E. Moss, C. Reichhardt; Washington University in St. Louis, Saint Louis, MO. |
| 4 | 2022-A-220-ASM-BIO | 104 | CRYSTAL-CLEAR: MECHANISTIC INSIGHTS INTO CRYSSTALLINE 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 VIBRIO CHOLERAE BIOFILM ADHESION | X. Huang¹, T. Nero¹, A. Hinbest², R. Weerasekera², S. A. Malaker¹, R. Olson², J. Yan¹; ¹Yale University, New Haven, CT, ²Wesleyan University, Middletown, CT. |
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| 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 *Agrobacterium tumefaciens* | 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 *AGROBACTERIUM TUMEFACIENS* | 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 *AGROBACTERIUM TUMEFACIENS* | G. G. Hardy, C. Fuqua; Indiana University, Bloomington, IN.                                        |
| 9    | 2022-A-296-ASM-BIO | 109      | Characterization of functional amyloids in *Pseudomonas aeruginosa* 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 *SALMONELLA ENTERICA* SEROVAR TYPHIMURIUM BIOFILMS | S. Olubajo, G. Queisser, B. Buttaro, C. Tukel; Temple University, Philadelphia, PA.                |
| 11   | 2022-A-71-ASM-BIO  | 111      | CHARACTERIZING BIOFILM-RELATED GENES DURING PELLCILLE FORMATION BY *ESCHERICHIA COLI* AND ITS INTERACTION WITH *AEROMONAS AUSTRALIENSIS* | 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 *PSEUDOMONAS AERUGINOSA* 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. |
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| 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. Higgens, B. Maier; University of Cologne, Cologne, GERMANY. |
| 16 | 2022-A-155-ASM-BIO | 116 | PLEOMORPHY AND CORDED BIOFILMS OF *Mucispirillum schaedleri*, 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 | *Mucispirillum schaedleri*: CORDED BIOFILMS AND PLEOMORPHY IN A UNIQUE SPIRAL BACTERIUM | R. Palmer\(^1\), P. Zerfas\(^2\), D. Stephany\(^3\), E. Falcone\(^4\); \(^1\)NIDCR/NIH, Bethesda, MD, \(^2\)ORS/NIH, Bethesda, MD, \(^3\)NIAID/NIH, Bethesda, MD, \(^4\)Montreal Clincial Research Institute, Montreal, QC, CANADA. |
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| 19   | 2022-A-177-ASM-BIO | 119  | Biofilm formation of *Listeria monocytogenes* on stainless steel coupons in cantaloupe juice characterized by SEM and RNA Seq | M. Redding¹, G. Gu¹, J. Mowery¹, J. Zheng², X. Nou³; ¹USDA ARS, Beltsville, MD, ²US FDA, College Park, MD. |
| 20   | 2022-A-214-ASM-BIO | 120  | Microbial corrosion of carbon steel by *Pseudomonas aeruginosa* | B. B. Kayasta¹, B. K. Jasthi², R. K. Sani², V. R. Gadhamshetty², B. Tseng¹; ¹University of Nevada, Las Vegas, Las Vegas, NV, ²South 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 *STAPHYLOCOCCUS EPIDERmidIS* 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 *Pseudomonas aeruginosa* 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 *PSEUDOMONAS AERUGINOSA* | 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. Ghesquière¹, K. Simoens¹, E. Koos¹, N. Boon², W. Teughels¹, K. Bernaerts¹; ¹KU Leuven, Leuven, BELGIUM, ²UGent, Gent, BELGIUM. |
| 25   | 2022-A-253-ASM-BIO | 125  | Transcriptomic profiling of the *Pseudomonas aeruginosa* biofilm using single-cell RNA sequencing | N. Arabameri¹, A. Rosenthal², B. Tseng¹; ¹University of Nevada, Las Vegas, Las Vegas, NV. |
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| 26   | NUTRIENT-DEPENDENT EFFECTS OF THE OUTER MEMBRANE PORIN OPRF IN PSEUDOMONAS AERUGINOSA BIOFILM FORMATION | E. K. Cassin¹, S. A. Araujo-Hernandez³, L. O'Neal², D. S. Baughn¹, M. C. Schofield Londono¹, D. Q. Rodriguez¹, M. R. Parsek², B. S. Tseng¹; ¹University of Nevada - Las Vegas, Las Vegas, NV, ²University of Washington, Seattle, WA. | University of North Carolina, Chapel Hill, NC. |
| 27   | Pseudomonas Elastase is a Biofilm Matrix-Associated Enzyme | J. Stembel, M. Parsek; University of Washington, Seattle, WA.             |                                                                                 |
| 28   | Characterization of hypothetical proteins essential for temperature-dependent adaptation in Pseudomonas aeruginosa | A. Luecke¹, K. Bisht², S. Islam¹, P. Mathews¹, C. Wakeman¹; ¹Texas Tech University, Lubbock, TX, ²Princeton University, Princeton, NJ. |                                                                                 |
| 29   | Novel Biosynthetic Gene Cluster Alters Streptococcus mutans Biofilm Formation | S. Momeni, H. Wu; Oregon Health and Science University, Portland, OR.      |                                                                                 |
| 30   | TEMPERATURE DEPENDENT REGULATION OF MYO INOSITOL OPERON IN Clostridium perfringens BIOFILMS | R. Fukuda, N. Obana, N. Nomura; University of Tsukuba, Tsukuba, JAPAN.     |                                                                                 |
| 31   | EVOLUTION OF BIOFILM-ADAPTED GENE EXPRESSION PROFILES IN CLINICAL PSEUDOMONAS AERUGINOSA ISOLATES | J. G. Thöming¹, M. Preusse², D. Strunin¹, S. Häussler²; ¹University Hospital Copenhagen, Copenhagen, DENMARK, ²Helmholtz Centre for Infection Biology |                                                                                 |
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| 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. | Research, Braunschweig, GERMANY. |
| 33   | 2022-A-348-ASM-BIO | 134 | ALGINATE-ASSOCIATED BIOFILM MATRIX PROTEINS IN PSEUDOMONAS AERUGINOSA | H. M. Jacobs¹, R. S. Johnson¹, M. J. MacCoss¹, D. J. Wozniak², M. R. Parsek¹; ¹University of Washington, Seattle, WA, ²Ohio 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. Mejia¹, M. Trujillo², J. J. Dennehy³, F. Spagnolo⁴; ¹CUNY Queens College, Flushing, NY, ²CUNY Queensborough Community College, Bayside, NY, ³CUNY Graduate Center, New York, NY, ⁴Long 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. | |
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| 37   | 2022-A-339-ASM-BIO | 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 | 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 | MYCOBACTERIOPHAGES EXHIBIT ANTI BIOFILM ACTIVITY AT HIGH MULTIPLICITIES OF INFECTION | D. Kamya, W. Ssengooba, J. L. Nakavuma, B. Achan, J. Semanda; Makerere University, Kampala, UGANDA. |
| 40   | 2022-A-364-ASM-BIO | Development of Standard Protocols to Assess RelA Inhibitors | M. Thwe; Drexel University, Philadelphia, PA. |
| 41   | 2022-A-374-ASM-BIO | Growing biofilms in microdroplets for the development of a high-throughput methodology to characterize biofilm communities | J. D. Li¹, J. Tan¹, L. Raskin¹, A. J. Pinto², X. N. Lin¹; ¹University of Michigan, Ann Arbor, MI, ²Georgia Institute of Technology, Atlanta, GA. |
| 42   | 2022-A-244-ASM-BIO | 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 | MICROSCOPIC DETECTION AND SEMI-QUANTITATIVE SCORING OF BIOFILMS IN VENOUS LEG ULCERS | G. A. James¹, S. T. Fisher¹, J. K. Stechmiller², D. E. Lyon³, P. S. Stewart¹; ¹Montana State University, Bozeman, MT, ²University of Florida, Gainesville, FL. |
| 44   | 2022-A-94-ASM-BIO | COMPARATIVE STUDY OF INTRACELLULAR BIOFILMS FORMED BY CLINICAL ADHERENT INVASIVE E. COLI | E. Bruder¹, N. Quenech'du¹, C. Chevarin², N. Barnich², S. Rimsky¹, O. Espéli¹; ¹College de France, Paris, ²Georgia Institute of Technology, Atlanta, GA. |
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| 45 | 2022-IS-398-ASM | Late Breaker Posters 151-166                                         | D. Hurdle; ASM, City, VA.                                              |
|   |               |                                                                     |                                                                       |                                                                            |
| 46 | 2022-A-222-ASM-BIO | THE ROLE OF EXTRACELLULAR DNA IN MUCOID *Pseudomonas aeruginosa*BIOFILMS | D. Ferguson¹, E. S. Gloag²; D. J. Wozniak¹; ¹The Ohio State University, Columbus, OH, ²Virginia Tech, Blacksburg, VA. |
|   |               |                                                                     |                                                                       |                                                                            |
| 47 | 2022-A-277-ASM-BIO | INVESTIGATING *Salmonella enterica* SEROVAR TYPHIMURIUM 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 | IDENTIFYING THE GENETIC DETERMINANTS OF *G. vaginalis* 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                                                                                      |
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| 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 SALMONELLA TYPHIMURUM IN HETEROGENEOUS 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 VEillonella parVula                                                                 | 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. Hammer¹, K. A. MacGillivray², S. L. Ng¹, S. Wiesenfeld¹, R. L. Guest², T. Jubery¹, T. J. Silhavy², W. C. Ratcliff¹; ¹Georgia Tech, Atlanta, |
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| 5    | 2022-A-126-ASM-BIO | 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 | Quorum sensing controlled biofilm dispersal of *P. aeruginosa* mediates competition between *P. aeruginosa*, *E. coli*, and *E. faecalis* | J. D. Holt, C. D. Nadell; Dartmouth College, Hanover, NH.                                                      |
| 7    | 2022-A-134-ASM-BIO | COMBINATORIAL TREATMENT WITH ANTIBIOTICS AND THE PROBIOTIC *E. coli* NISSLE AS A STRATEGY TO COMBAT BIOFILMS OF COOPERATIVELY RESISTANT SALMONELLA TYP HIMUMIRUM | G. De Wit, B. Lories, H. Steenackers; KU Leuven, Heverlee, Belgium.                                             |
| 8    | 2022-A-136-ASM-BIO | 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 | STAPHYLOCOCCUS AUREUS PIGMENT PRODUCTION IS INDUCED BY GROWTH WITH *PSEUDOMONAS AERUGINOSA* AND CONFFERS CROSS-SPECIES PROTECTION AGAINST HOST IMMUNITY | Y. Liu, E. McQuillen, P. S. Rana; Ohio State University, Columbus, OH.                                         |
| 10   | 2022-A-161- | Interkingdom assemblages in human saliva display group-level surface mobility and | Z. Ren, H. Jeckel, A. Simon-Soro, Z. Xiang, Y. Liu, I. M. Cavalcanti, J. Xiao, N. Tin, A. Hara, K. |
| Session | Title                                                                 | Authors                                                                                   |
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| 11      | **H-NS Coordinately Represses the Type VI Secretion System and Biofilm in *Vibrio fischeri* MJ11** | L. Speare¹, R. Y. Isenberg², A. Jackson³, M. J. Mandel², **A. N. Septer**³; ¹Oregon State University, Corvallis, OR, ²University of Wisconsin, Madison, WI, ³University of North Carolina, Chapel Hill, NC. |
| 12      | **SOCIAL EVOLUTION OF SHARED BIOFILM MATRIX COMPONENTS**             | **J. B. Tai**¹, S. Mukherjee², T. Nero¹, R. Olson³, J. Tithof², C. D. Nadell², J. Yan¹; ¹Yale University, New Haven, CT, ²University of Minnesota, Minneapolis, MN, ³Wesleyan University, Middletown, CT, ⁴Dartmouth College, Hanover, NH. |
| 13      | **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      | **PATTERNS OF ALKYL QUINOLONE DISTRIBUTION IN *PSEUDOMONAS AERUGINOSA* COLONY BIOFILMS** | **A. Weaver**¹, D. Parmar², A. Cutri¹, J. Jia¹, P. Bohn¹, J. Sweedler²; ¹University of Notre Dame, Notre Dame, IN, ²University of Illinois Urbana- |
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| 15 | 2022-A-230-ASM-BIO | 116 | ENTEROCOCCUS FAECALIS ATTENUATES PSEUDOMONAS AERUGINOSA 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-Plesser\(^1\), 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 ENTEROCOCCUS FAECALIS AND KLEBSIELLA PNEUMONIAE IN POLYMICROBIAL CATHETER-ASSOCIATED URINARY TRACT INFECTIONS | Z. Zou, J. S. Pinkner, C. L. P. Obernuefemmann, 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 PSEUDOMONAS AERUGINOSA AND CANDIDA AURIS | C. Lam, K. Danis-Wlodarczyk, D. J. Wozniak; Ohio State University, Columbus, OH. |
| Session | Poster ID | Abstract Title                                                                                                                   | Authors | Affiliations                                                                                                                                 |
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| 21      | 2022-A-303-ASM-BIO | How Pseudomonas aeruginosa 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 | 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 | INTERACTIONS BETWEEN STAPHYLOCOCCUS AUREUS AND PSEUDOMONAS AERUGINOSA 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 | IMPACT OF SMALL NON-CODING RNA00203 ON BIOFILM-SPECIFIC ANTIBIOTIC RESISTANCE INACINETOBACTER BAUMANNII                       | A. Shenkutie¹, L. Polly²; ¹St Paul's Hospital and Millennium Medical College, Addis Ababa, ETHIOPIA, ²The Hong kong Polytechnic University, Hong Kong, HONG KONG. |
| 25      | 2022-A-172-ASM-BIO | MECHANISM OF NATIVE DISPERSION BY PSEUDOMONAS AERUGINOSA BIOFILMS AND SIMILARITY TO ENVIRONMENTALLY-INDUCED DISPERSION      | M. Kalia, K. Sauer; Binghamton University, Vestal, NY.                                                                                           |
| 26      | 2022-A-270-ASM-BIO | DEVELOPMENT OF A PSEUDOMONAS AERUGINOSA 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 | BIOPHYSICAL PROPERTIES OF STAPHYLOCOCCUS EPIDERMIDIS CELLS DISPERSED DURING MATRIX                                             | S. Packard, E. Stewart; Worcester Polytechnic Institute, Worcester, MA.                                                                         |
| 28 | 2022-A-311-ASM-BIO | 129 | COMPARING α-AMYLASE AND CIS-2-DECENOIC ACID TREATMENTS TO DISPERSE PSEUDOMONAS AERUGINOSA BIOFILMS | V. Chavez¹, K. Purkeypile², M. Muscente³, G. Nair³, I. Nicolo³, D. Davies³, C. Light³, W. Redman³; ¹Borough of Manhattan Community College, New York, NY, ²University of Nebraska at Kearney, Kearney, NE, ³Binghamton University, Binghamton, NY. |
| 29 | 2022-A-330-ASM-BIO | 130 | NONTYPEABLE HAEMOPHILUS INFLUENZAE (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. Kurbatfinski¹, N. J. Tobin¹, J. Wickham¹, P. Hill², L. Hall-Stoodley², S. D. Goodman¹, L. O. Bakaletz¹; ¹Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH, ²The 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 Vibrio fischeri | J. Esin, A. Kroken, K. Visick; Loyola University Chicago, Chicago, IL. |
| 32 | 2022-A-375-ASM-BIO | 135 | BDLa DEPENDENT AND INDEPENDENT BACTERIAL VIRULENCE IN PSEUDOMONAS AERUGINOSA | W. Redman, O. Stala, K. Sauer; Binghamton University, Vestal, NY. |
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| 33   | 2022-A-112-ASM-BIO | IN VITRO THERAPUTIC POTENTIAL EVALUATION OF MEDICINAL PLANTS EXTRACTS AGAINST BIOFILM FORMING Klebsiella pneumoniae CHARACTERIZED BY 16S rRNA. | S. A. Khan¹, W. Khan², M. Uddin¹; ¹University of Swat, Swat, PAKISTAN, ²University Of Swat, Swat, PAKISTAN. |
| 34   | 2022-A-117-ASM-BIO | ROLE OF ANTI-MIOTIC DRUG ASP. AERUGINOSAQUORUM SENSING INHIBITOR | V. KUMAR, V. Agarwal; MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, PRAYAGRAJ, INDIA. |
| 35   | 2022-A-119-ASM-BIO | DETECTION OF BIOFILMS AMONG CARBAPENEM RESISTANCE ENTEROBACTERIACEAE ISOLATED FROM DOMESTIC SINKS | A. E. Ojo¹, S. O. ADEBAJO¹, O. A. OJO², O. A. OJO²; ¹federal university of agriculture, abeokuta, nigeria, abeokuta, NIGERIA, ²Madona university, Elele, Port-Harcourt, River state, Nigeria, port-harcourt, NIGERIA. |
| 36   | 2022-A-124-ASM-BIO | The effect of gallbladder conditions on Salmonella 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 | УТВОРЕННЯ БІОПЛІВКИ ТА АНТАГОНІЗМ STAPHYLOCOCCUS SPP. ІЗОЛЬОВАНО ВІД ХВОРИХ НА АТОПІЧНИЙ ДЕРМАТИТ | S. Boyanovsky¹, K. Rudnieva², V. Ushkalov³, L. Vygovska³, Y. Vishovan³, A. Ushkalov³; ¹State Scientific Control Institute of Biotechnology and Strains of Microorganisms, Kyiv, UKRAINE, ²Kyiv Regional Clinical Hospital, Kyiv, UKRAINE, ³National University of Life and…|
| Table | Environmental Sciences of Ukraine, Kyiv, UKRAINE. |
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| 38    | **2022-A-135-ASM-BIO** 141 ANTIBACTERIAL ACTIVITY OF SOME MEDICINAL PLANTS AGAINST BIOFILM-FORMING METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS** |
| 39    | **2022-A-143-ASM-BIO** 142 ANTIMICROBIAL EFFECT OF CHLOROPHYLLIN AND POLYETHYLENIMINE ON PSEUDOMONAS AERUGINOSA PLANKTONIC CELLS AND BIOFILM ** |
| 40    | **2022-A-175-ASM-BIO** 143 ANTIMICROBIAL RESISTANCE PATTERN OF BACTERIA IN URINARY TRACT INFECTION IN ASSIN FOSU GHANA ** |
| 41    | **2022-A-192-ASM-BIO** 144 IMPACT OF A COMBINATION THERAPY OF AN ANTIMICROBIAL AND DISPERSSAL AGENT TO TREAT A MATURE METHICILLAN RESISTANT STAPHYLOCOCCUS AUREUS (MRSA) BIOFILM ** |
| 42    | **2022-A-207-ASM-BIO** 145 DIFFERENTIAL IMPACT OF THE ANTIFUNGAL OCCIDIOFUNGIN ON ** |

**T. Ibrahim; Queens University, Bblast, UNITED KINGDOM.**

**M. Mahmoud, P. Richter, M. Lebert, A. Burkovski; Friedrich Alexander University, Erlangen, GERMANY.**

**J. Deke¹, C. W. Akenten¹, A. Owusu-Ofori², D. Dekker³, J. Amuasi¹; ¹Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, GHANA, ²School of Medicine and Dentistry, KNUST, Kumasi, GHANA, ³Infectious Disease Epidemiology Department, Bernhard Nocht Institute for Tropical Medicine, Hamburg, GERMANY.**

**R. Moore, H. Smyth; University of Texas at Austin, Austin, TX.**

**R. Kumpakha, D. M. Gordon;**
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| 44      | A comparison of dosing levels required to kill Staphylococcal aureus 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. |
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| 46      | MODELING MICROBIAL INTERACTIONS IN THE CYSTIC FIBROSIS LUNG            | F. Jean-Pierre¹, T. Hampton¹, D. Hogan¹, M. Groleau², E. Déziel², G. O'Toole³; ¹Geisal School of Medicine, Hanover, NH, ²INRS, Montreal, QC, CANADA. |
| 47      | PHAGE TREATMENT EFFICACY IN A P. AERUGINOSA 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. |
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| 49   | 2022-A-298-ASM-BIO | FORMATION AND ANTIBIOTIC RESISTANCE BELOIN;                        | Institut Pasteur, Paris, FRANCE. |
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| 50   | 2022-A-306-ASM-BIO | Real-time Monitoring of a High-throughput Biofilm Assay            | S. K. Childs, A. D. Jones, III; Duke University, Durham, NC. |
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| 53   | 2022-A-336-ASM-BIO | 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 | IDENTIFYING SIGNALS THAT REGULATE COLISTIN RESISTANCE THROUGH PMRAB AND PHOPQ | R. Al-Feghali, K. Sauer; Binghamton University, Vestal, NY. |
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| 57   | 2022-A-376-ASM-BIO | 162   | Effect of the absence of OprF on the *P. aeruginosa* susceptibility to complement proteins and engulfment by macrophages | S. Syed, C. N. H. Marques; Binghamton University Biofilm Group, Binghamton, NY. |
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| 59   | 2022-A-384-ASM-BIO | 164   | The Antimicrobial Peptide LL-37 Promotes Penetration of Antibiotics through Infected Sputum | T. Chang¹, Q. Chen¹, M. J. Kratochvil², P. Cai², E. Burgener³, C. Milla³, A. J. Spakowitz², S. C. Heilshorn³, P. L. Bollyky¹; ¹Division of Infectious Diseases and Geographic Medicine Stanford University School of Medicine, Stanford, CA, ²Stanford University, Stanford, CA, ³Stanford University School of Medicine Center for Excellence in Pulmonary Biology, Stanford, CA. |
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| 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. Inzana¹, D. Cao¹, Y. Lee¹, W. Weng¹, N. Vogelaar², P. Sobrado³                     | ¹Long Island University, Brookville, NY, ²Virginia Tech, Blacksburg, VA.                         |
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| 2022-A-285-ASM-BIO | **CLOSTRIDIODES DIFFICILE BIOFILM FORMATION IN COLONIC MUCOSA IS ASSOCIATED WITH RECURRENT C. DIFFICILE INFECTION** | M. Pu¹, D. Schupack¹, I. Comba¹, A. Godoy², A. Ferris³, P. Kashyap¹; ¹Mayo Clinic, Rochester, MN, ²San Francisco State University, San Francisco, CA, ³California Polytechnic State University, San Luis Obispo, CA. |
| 2022-A-287-ASM-BIO | **HISTIDINE KINASE BINK IS A KEY MEDIATOR OF BIOFILM SIGNALING DURING VIBRIO FISCHERI HOST COLONIZATION** | D. A. Ludvik, N. Rosario-Melendez, M. J. Mandel; University of Wisconsin-Madison, Madison, WI. |
| 2022-A-294-ASM-BIO | **A ubiquitous biofilm-promoting large plasmid of the gut microbiota** | L. García-Bayona¹, N. Said¹, A. Gutierrez Camacho², M. J. Coyne¹, N. Elmekki¹, L. E. Comstock¹; ¹University of Chicago, Chicago, IL, ²Universidad de Puerto Rico Mayaguez, Mayaguez, PR. |
| 2022-A-300-ASM-BIO | **IN DEPTH CHARACTERIZATION OF BACTERIAL BIOFILMS IN CHRONIC WOUNDS** | T. H. Jakobsen¹, A. S. Iversen¹, M. Lichtenberg¹, K. Kirketerp-Møller², H. Gottlieb³, T. Bjarnsholt¹; ¹University of Copenhagen, Copenhagen, DENMARK, ²Bispebjerg Hospital, Copenhagen, DENMARK, ³Herlev Hospital, Herlev, DENMARK. |
| 2022-A-305-ASM-BIO | **RNA SEQ ANALYSIS OF DUAL AND TRIPLE SPECIES BIOFILMS GIVE INSIGHT INTO INTERACTION AND COMPETITION AMONG LUNG PATHOGENS IN THEIR NICHE** | R. Moll¹, I. Alio¹, T. Hoffmann¹, H. Rohde³, U. Mamat³, U. Schaible³, K. Papenfort¹, W. Streit¹; ¹Universität Hamburg, Hamburg, GERMANY, ²UKE, Hamburg, GERMANY, ³Research Center Borstel, Borstel, GERMANY, ⁴Papenfortlab, Hamburg, GERMANY. |
| 2022-A-305-ASM-BIO | **IN VITRO EVALUATION OF E. coli-GREEN FLUORESCENT PROTEIN TRANSLOCATION IN THE 3D PRINTED VASCULAR GRAFT MATERIAL** | A. Sharma, A. D. Jones, III; Duke University, Durham, NC. |
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| 2022-A-347-ASM-BIO | 120 | Protein Acetylation Regulates Streptococcus gordonii Biofilms | J. P. O'Brien¹, F. Saavedra¹, V. Van Loi², L. Adrian³, I. Choi¹, H. Antelmann², M. C. Herzberg¹, B. P. Lima¹; ¹University of Minnesota, Minneapolis, MN, ²Freie Universität Berlin, Berlin, GERMANY, ³Technische Universität Berlin, Berlin, GERMANY. |
| 2022-A-351-ASM-BIO | 121 | INTERPLAY BETWEEN SALMONELLA BIOFILM-ASSOCIATED PROTEIN CURLI AND GENETIC RISK FACTOR HLA-B27 IN REACTIVE ARTHRITIS | K. Grando, S. Bessho, K. Harrell, L. Nicastro, A. Miller, C. Tukel; Temple University, Philadelphia, PA. |
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| 2022-A-372-ASM-BIO | REGULATION OF PSEUDOMONAS AERUGINOSA VIRULENCE GENES IN CYSTIC FIBROSIS LUNG MODEL | I. Laubach, C. Balkanski, J. Sanders, M. Peterson; Perfectus Biomed Group, Jackson, WY.            |
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| 2022-A-377-ASM-BIO | 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 | A Static Biofilm Assay for the Assessment of Strain Variation and Complement-Antibiotic Synergism Against Non-Typeable Haemophilus influenzae Biofilms. | S. R. Thomas, A. Gorringe, S. Taylor; UK Health Security Agency, Salisbury, UNITED KINGDOM.         |
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| 2022-A-393-ASM-BIO | STREPTOCOCCUS GENETIC FACTORS INFLUENCING POLYMICROBIAL BIOFILMS IN THE CYSTIC FIBROSIS AIRWAY | R. Rogers, F. Jean-Pierre, G. A. O'Toole; Dartmouth College, Hanover, NH.                          |
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| AN INNATE HOST DEFENSE PROTEIN, β-2-MICROGLOBULIN, PREVENTS BIOFILM FORMATION VIA BLOCKING FUNCTIONAL AMYLOID: IMPLICATIONS IN DIALYSIS RELATED KIDNEY INFECTIONS | E. Teruel-Barandiarán, Y. Pellegrin, R. Forster | 1Dublin City University, Dublin, IRELAND, 2Université de Nantes, Nantes, FRANCE. |
| SALMONELLA BIOFILM INHIBITORS: SPECTRUM OF ACTIVITY AND EFFECTIVENESS IN CURING LONG-TERM CARRIERS | A. N. Bennett, J. S. Gunn | 1The Ohio State University College of Medicine, Columbus, OH, 2Abigail Wexner Research Institute at Nationwide Children’s Hospital, Columbus, OH. |
| Serratiopeptidase affects adhesive features of *Pseudomonas aeruginosa* isolates from cystic fibrosis patients on biotic and abiotic substrates | M. Artini, G. Vrenna, R. Papa, L. Selan | SAPIENZA UNIVERSITY, Rome, ITALY. |
| Biomimetic surfaces inspired by cabbage leaves for *Escherichia coli* biofilm prevention in the food industry | L. Gomes, F. Saubade, M. Amin, J. Spall, C. Liauw, F. Mergulhao, K. Whitehead | 1FEUP - Faculty of Engineering, University of Porto, Porto, PORTUGAL, 2Department of Life Sciences, Microbiology at Interfaces, Manchester Metropolitan University, Chester Street, Manchester M15GD, UK, Manchester, UNITED KINGDOM. |
| PRODUCTION AND RELEASE OF AN IRON-CHELATING FACTOR BY *PSEUDOMONAS AERUGINOSA* INHIBITS BIOFILM | S. Rayi, C. Fuqua, J. P. Gerdt | Indiana University Bloomington, Bloomington, IN. |
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| 2022-A-162-ASM-BIO | Potential probiotic, Bacillus subtilis, to counteract Candida albicans and Candida auris virulence and infections                      | L. Kunyeit, R. P. Rao; Worcester Polytechnic Institute, Worcester, MA.                        |
| 2022-A-164-ASM-BIO | 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 | 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 | K-AUREIN, A NOTABLE AUREIN 1.2-DERIVED PEPTIDE AGAINST VIRULENCE FACTORS, PLANKTONIC GROWTH AND BIOFILM PRODUCTION OF Candida albicans ISOLATES | V. A. Carneiro¹, M. L. Silva², M. N. Carneiro¹, R. M. B. Cavalcante², R. O. S. Fontenelle³, E. N. Lorenzón⁴, E. M. Cilli⁵, E. M. Cilli⁵; ¹University Center INTA, Sobral, BRAZIL, ²Federal University of Ceara – UFC, Sobral, BRAZIL, ³University Estate of Vale do Acaraú UVA, Sobral, BRAZIL, ⁴Federal University of Jataí, Jataí, BRAZIL, ⁵Estadual University of São Paulo – UNESP, Araraquara, BRAZIL. |
| 2022-A-178-ASM-BIO | SILVER CARBOXYLATE SHOWS PENETRANCE OF Staphylococcus aureus MW2 AND VRS1 BIOFILMS AND HINDERS VIABILITY OF PERSISTER 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-ASM-BIO | ENHANCING THE ANTIMICROBIAL EFFECT OF TITANIUM IMPLANTS BY LASER SURFACE MODIFICATIONS                                                   | K. Freel¹, D. Roh¹, P. Fatih-Hafshejani², M. Mahjouri-Samani², S. Hasim¹;                   |
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| 2022-A-182-ASM-BIO | 149 | EFFECT OF TOBRAMYCIN-LOADED PLGA MICROPARTICLES AND ULTRASOUND ON PSEUDOMONAS AERUGINOSA BIOFILMS | L. Bharatula¹, X. Su¹, M. Pramanik¹, S. A. Rice², J. J. Kwan³; ¹Nanyang Technological University, Singapore, SINGAPORE, ²CSIRO, Canberra, AUSTRALIA, ³University of Oxford, Oxford, UNITED KINGDOM. |  |
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| 2022-A-212-ASM-BIO | 153 | Effectiveness of a UVC system against Bacillus subtilis spores on ultrasonic probes | M. Yasir¹, A. Kobylinski², M. D. P. Willcox¹; ¹University of New South Wales Australia, Sydney, AUSTRALIA, ²Lumicare, Sydney, AUSTRALIA. |                                           |
| 2022-A-217-ASM-BIO | 155 | Investigation of antifungal and antibiofilm activities of Candida albicans using green synthesized silver nanoparticles | I. AHAMAD, I. Ahamad; Jamia Millia Islamia, New Delhi, INDIA. |                                           |
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| 2022-A249-ASM-BIO | 158  | Sodium salicylate as a quorum sensing inhibitor in Staphylococcus aureus - modulating virulence, biofilm and antimicrobial susceptibility | A. B. Turner¹, E. Gerner¹, R. Firdaus¹, M. Echeverz², M. Werthén¹, P. Thomsen¹, S. Almqvist³, M. Trobos¹;    ¹University of Gothenburg, Göteborg, SWEDEN, ²Public University of Navarre, Pamplona, SPAIN, ³Mölnlycke Healthcare, Göteborg, SWEDEN. |                                                                           |
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| 2022-A276-ASM-BIO |      | Targeting Polymicrobial Infection with Local Release Technology    | R. Falconer, W. Kay, C. Hunt, J. Adams, A. Miller, K. Hylen, T. Smith, L. Nehring, N. Ashton, D. Williams; University of Utah, Salt Lake City, UT. |                                                                           |
| 2022-A282-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-A288-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. |                                                                           |
| Title                                                                 | Authors                                                                 |
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| Anti-biofilm activity of microalgae cultivated in industrial biofilm-based reactor | A. Pavaux¹, F. Guiheneuf², J. Deschamps³, A. Fanesi¹, R. Briandet³, F. Lopes¹; ¹CentraleSupelec, Gif sur yvette, FRANCE, ²INALVE, Nice, FRANCE, ³INRAE, Jouy en josas, FRANCE. |
| Bacteriophage-induced entropic aggregation of Pseudomonas aeruginosa | R. E. Edmiston¹, S. Azimi², J. S. Weitz¹, S. P. Diggle¹, J. E. Curtis¹; ¹Georgia Institute of Technology, Atlanta, GA, ²Georgia State University, Atlanta, GA. |
| EFFECT OF HYDROGEN DISULFIDE RELEASING COMPOUNDS AGAINST Staphylococcus aureus AND Pseudomonas aeruginosa | D. R. Campbell¹, S. Sarkar¹, J. B. Matson², N. H. Levi¹; ¹Wake Forest University, Winston Salem, NC, ²Virginia Tech, Blacksburg, VA. |
| FIBRIN BASED NANOPARTICLE INFILTRATION OF STAPHYLOCOCCUS AUREUS BIOFILMS | G. Scull¹, A. Aligwekwe¹, D. Koch², J. Sollinger², A. Sheridan¹, J. Gilbertie³, L. Schnabel², K. Nellenbach¹, A. C. Brown¹; ¹North Carolina State University & UNC-Chapel Hill, Raleigh, NC, ²North Carolina State University, Raleigh, NC, ³Edward Via College of Osteopathic Medicine, Blacksburg, VA. |
| Anti-biofilm activity of Lippia origanoides essential oil against Methicillin-resistant Staphylococcus aureus (MRSA) ATCC 43300 | S. Correa, J. Ruiz, S. Mendez Sanchez; Universidad Industrial de Santander, Bucaramanga, COLOMBIA. |
| BACTERIOPHAGE TO TREAT MULTIDRUG RESISTANT Staphylococcus aureus OSTEOMYELITIS INFECTIONS WITH BIODEGRADABLE MICROSPHERE TECHNOLOGY | H. B. Kaplan¹, A. J. Narro¹, E. Brown¹, V. Ubha², J. P. Jacob¹, C. G. Ambrose¹; ¹McGovern Medical School, Houston, TX, ²Texas Tech University, Lubbock, TX. |
| BIOPHYSICAL EFFECT OF NANOTOPOGRAPHIES ON STAPHYLOCOCCUS AUREUS BIOFILMS DEVELOPMENT | N. K. Bari, A. Aung, D. Yessayan, A. S. Nain, B. Behkam; Virginia Tech, Blacksburg, VA. |
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| 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 Staphylococcus Aureus 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 Pseudomonas Aeruginosa 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 Streptococcus Mutans | R. E. Sroup, IV, J. S. Matson; University of Toledo, Toledo, OH. |
| 2022-A-338 | 180 | Monoclonals that target extracellular DnAII proteins or the Type IV pilus of nontypeable Haemophilus influenzae (NTHI) | J. A. Jurcisek, S. D. Goodman, L. O. Bakaletz; Abigail Wexner Research |
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|---------|-------|---------|-------------|
| 2022-A-340-ASM-BIO | worked additively to disrupt 2-genera biofilms | Institute/Nationwide Child Hosp, Columbus, OH. |
| 2022-A-342-ASM-BIO | MULTIFUNCTIONAL NANOMATERIALS FOR LIGHT CONTROLLED ACTION P. AERUGINOSA BIOFILMS | V. Godakhindi, J. Vivero-Escoto; University of North Carolina at Charlotte, Charlotte, NC. |
| 2022-A-343-ASM-BIO | 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 | STAPHYLOCOCCUS AUREUS BIOFILMS FORMED IN MILK DISPLAY RESISTANCE TO THE PHAGE LYTIC PROTEIN LYSROΔAMI | S. Agun Garcia, L. Fernandez Llamas, P. Garcia Suarez, A. Rodriguez Gonzalez; CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, Villaviciosa, SPAIN. |
| 2022-A-352-ASM-BIO | EVALUATING THE ANTIBIOFILM ACTIVITY OF PRAVIBISMANE IN CYSTIC FIBROSIS-RELATED PATHOGENS | M. Zori¹, M. R. Parsek¹, R. E. Hernandez², B. H. J. Baker³; ¹Dept of Microbiology, University of Washington School of Medicine, Seattle, WA, ²University of Washington and Seattle Children's Research Institute, Seattle, WA, ³Microbion Corporation, Bozeman, MT. |
| 2022-A-355-ASM-BIO | EFFECTS OF DAPHNETIN ON BIOFILM FORMATION AND MOTILITY OF PSEUDOMONAS AERUGINOSA | Z. ye, k. wang, q. wei; Guangxi Medical University, Nanning, CHINA. |
| 2022-A-359-ASM-BIO | RESTRICTION OF CANDIDA ALBICANS BIOFILMS THROUGH 26S PROTEASOME INHIBITION | F. Gonzalez; Microbiology, Glendale, AZ. |
| 2022-A-367-ASM-BIO | Altering the community composition of dental plaque biofilms using quorum quenching lactonases | R. Sikdar, B. P. Lima, M. Beaucraite, M. Herzberg, M. Elias; University of Minnesota, Saint Paul, MN. |
| 2022-A-383-ASM-BIO | MUCIN COATINGS ON POLYDIMETHYLSILOXANE INHIBIT THE | Z. Han, D. Ren; Syracuse University, Syracuse, NY. |
| ASM-BIO    | ATTACHMENT OF PSEUDOMONAS AERUGINOSA | C. Hastings, C. Marques; Binghamton University, Vestal, NY. |
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| 2022-A-106-ASM-BIO | 112 Pseudomonas aeruginosa Persister Cells Resist and Modulate the THP-1 Macrophage Immune Response | |
| 2022-A-218-ASM-BIO | 129 Development of clinically relevant *in vitro* and *in vivo* 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. |