



## Carlos Milla

Professor of Pediatrics (Pulmonary Medicine) and, by courtesy, of Medicine (Pulmonary and Critical Care Medicine)

Pediatrics - Pulmonary Medicine

### CLINICAL OFFICE (PRIMARY)

- **Pediatric Pulmonary and Cystic Fibrosis Clinic**

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Palo Alto, CA 94304

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Meena Kakani - Administrative Manager

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## Bio

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### CLINICAL FOCUS

- Cystic Fibrosis
- Primary Ciliary Dyskinesia
- Bronchopulmonary Dysplasia
- Pulmonary Hypertension
- Rare Lung Diseases
- Pediatric Lung and Heart-Lung Transplantation
- Pediatric Pulmonology

### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pediatrics - Pulmonary Medicine
- Professor - University Medical Line (By courtesy), Medicine - Pulmonary, Allergy & Critical Care Medicine
- Member, Bio-X
- Member, SPARK at Stanford
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

### ADMINISTRATIVE APPOINTMENTS

- Associate Director for Translational Research, Center for Excellence in Pulmonary Biology, Stanford University, (2016- present)
- Director, The Stanford Cystic Fibrosis Center, (2009- present)

### HONORS AND AWARDS

- Magister in Pediatric Pulmonary Medicine, Latin American Pediatric Pulmonology Society (SOLANEP) (2018)
- Distinguished Service Award, CF Therapeutics Development Network, Cystic Fibrosis Foundation (2016)

- CF Caregiver of the Year Award, CF Research Inc. (CFRI) (2014)
- Crandall Endowed Scholar in Pediatric Pulmonary Medicine, Stanford University School of Medicine (2007)
- Annalisa Marzotto Endowed Chair in Cystic Fibrosis Care, University of Minnesota Medical School (2005)

## PROFESSIONAL EDUCATION

- Board Certification: Pediatric Pulmonology, American Board of Pediatrics (1996)
- Fellowship: University of Minnesota School of Medicine (1995) MN
- Residency: SUNY at Brooklyn School Of Medicine (1992) NY
- Internship: SUNY at Brooklyn School Of Medicine (1990) NY
- Medical Education: Universidad Peruana Cayetano Heredia (1986) Peru

## PATENTS

- Carlos Milla, Jeffrey Wine, Nam Soo Joo. "United States Patent 63/408,596 (preliminary) Synergistic Stimulation of Mucociliary Clearance to Treat Mucus Obstruction in Cystic Fibrosis and Other Muco-Obstructive Disorders.", Leland Stanford Junior University
- C. Milla, J. Axelrod, E. Vladar. "United States Patent PCT/US21/46742 METHODS FOR TREATING RESPIRATORY DISEASES CHARACTERIZED BY MUCUS HYPERSECRETION", Leland Stanford Junior University, Aug 20, 2020

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

At Stanford University I developed and currently direct the CF Translational Research Center. The overarching goal of the center is to provide the groundwork to streamline, accelerate, and promote the translation of basic discoveries into effective therapies and interventions to benefit patients affected by cystic fibrosis. My laboratory group currently has three main lines of investigation: 1) respiratory cell biology: ongoing research is focused on the mucociliary clearance dysfunction that is at the root of airway diseases such as Cystic Fibrosis (CF) and primary ciliary dyskinesia (PCD). This has included studies of ciliated cell biology and host-pathogen interactions that contribute to disease progression. 2) remote biochemical monitoring: we have established a strong interdisciplinary collaborative team to advance novel technological developments to allow for minimally invasive remote monitoring of biomarkers of importance in CF. and 3) lung physiology in young children. Current efforts are focused on the understanding of the early events that drive the development of lung disease through the study of infants with CF identified by newborn screening. This includes the development of new diagnostic tools that permit the early detection of lung disease manifestations. Additional research interests include active programs for biomarker discovery for chronic pulmonary conditions such as PCD, pulmonary hypertension, chronic lung disease of infancy and interstitial lung disease.

### CLINICAL TRIALS

- Streamlined Treatment of Pulmonary Exacerbations in Pediatrics, Recruiting
- Long-term Lung Function and Disease Progression in Children With Early Onset Primary Ciliary Dyskinesia Lung Disease, Not Recruiting
- Rare Genetic Disorders of the Breathing Airways, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Orals Chair

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## Publications

### PUBLICATIONS

- **A blueprint for broadly effective bacteriophage-antibiotic cocktails against bacterial infections.** *Nature communications*  
Kim, M. K., Chen, Q., Echterhof, A., Pennetzdorfer, N., McBride, R. C., Banaei, N., Burgener, E. B., Milla, C. E., Bollyky, P. L.  
2024; 15 (1): 9987
- **Therapies Used by Children With Primary Ciliary Dyskinesia: A Natural History Study.** *Pediatric pulmonology*  
Gardner, R. A., Ferkol, T. W., Davis, S. D., Rosenfeld, M., Sagel, S. D., Dell, S. D., Milla, C. E., Li, L., Lin, F., Sullivan, K. M., Zariwala, M. A., Knowles, M. R., Leigh, et al  
2024: e27412
- **Pf bacteriophage is associated with decline in lung function in a longitudinal cohort of patients with cystic fibrosis and Pseudomonas airway infection.** *Journal of cystic fibrosis : official journal of the European Cystic Fibrosis Society*  
Burgener, E. B., Gupta, A., Nakano, K., Gibbs, S. L., Sommers, M. E., Khosravi, A., Bach, M. S., Dunn, C., Spano, J., Secor, P. R., Tian, L., Bollyky, P. L., Milla, et al  
2024
- **Comparison of Longitudinal Outcomes in Children with Primary Ciliary Dyskinesia and Cystic Fibrosis.** *Annals of the American Thoracic Society*  
Kinghorn, B., Rosenfeld, M., Sullivan, E., Onchiri, F. M., Brown, M. D., Szczesniak, R., Ferkol, T. W., Sagel, S. D., Dell, S. D., Milla, C., Shapiro, A. J., Sullivan, K. M., Zariwala, et al  
2024
- **Evaluating Feasibility, Acceptability, and Effectiveness of a Digital Behavioral Nutrition Intervention in Cystic Fibrosis Care** *CLINICAL PRACTICE IN PEDIATRIC PSYCHOLOGY*  
Opipari-Arrigan, L., Kouril, M., Connor, J., Ford, C., McWilliams, E., Green, A., Siracusa, C., Milla, C., Muther, E., Nasr, S. Z., Sathe, M., Sawicki, G. S., Schechter, et al  
2024
- **Feasibility and Inter-Test Reproducibility of Lung Clearance Index and Slow Vital Capacity in Children with Neuromuscular Disorders**  
Lam, J., Pettigrew, G., Withers, A., Zirbes, J., Buu, M., Milla, C., Wilson, A.  
EUROPEAN RESPIRATORY SOC JOURNALS LTD.2024
- **The lysogenic filamentous Pseudomonas bacteriophage phage Pf slows mucociliary transport.** *PNAS nexus*  
Burgener, E. B., Cai, P. C., Kratochvil, M. J., Rojas-Hernandez, L. S., Joo, N. S., Gupta, A., Secor, P. R., Heilshorn, S. C., Spakowitz, A. J., Wine, J. J., Bollyky, P. L., Milla, C. E.  
2024; 3 (9): pgae390
- **Prevalence and associations of sleep disordered breathing in children with neuromuscular disorders**  
Withers, A., Lam, J., Pettigrew, G., Downs, J., Deegan, S., Gauld, L., Spano, J., Milla, C., Buu, M., Filmer, K., Wilson, A.  
EUROPEAN RESPIRATORY SOC JOURNALS LTD.2024
- **Impact of Discontinuing Both Hypertonic Saline and Dornase Alfa After Elexacaftor/Tezacaftor/Ivacaftor in Cystic Fibrosis.** *Annals of the American Thoracic Society*  
Mayer-Hamblett, N., Gifford, A. H., Kloster, M., Russell, R., Braun, A. T., Gibson, R. L., Hoppe, J. E., Jain, R., Linnemann, R. W., Liou, T. G., Lysinger, J., Milla, C., Riekert, et al  
2024
- **Development and preliminary validation of the personalized cystic fibrosis medication questionnaire (PCF-MQ).** *Journal of cystic fibrosis : official journal of the European Cystic Fibrosis Society*  
Phan, H., Daines, C. L., Woo, T., Psoter, K. J., Goodman, A., McWilliams, E., Frederick, C., Milla, C., Oates, G., Sawicki, G. S., Riekert, K. A.  
2024
- **Pf bacteriophages hinder sputum antibiotic diffusion via electrostatic binding.** *Science advances*  
Chen, Q., Cai, P., Chang, T. H., Burgener, E., Kratochvil, M. J., Gupta, A., Hargill, A., Secor, P. R., Nielsen, J. E., Barron, A. E., Milla, C., Heilshorn, S. C., Spakowitz, et al  
2024; 10 (22): eadl5576
- **Predictors of Long- term Lung Function Trajectory in Primary Ciliary Dyskinesia**

- Rosenfeld, M., Brown, M., Dell, S. D., Ferkol, T. W., Kinghorn, B., Knowles, M. R., Milla, C. E., Sagel, S. D., Shapiro, A. J., Sullivan, K., Zariwala, M., Leigh, M. W., Davis, et al  
AMER THORACIC SOC.2024
- **Automated Analysis of Bronchus and Artery Dimensions on Chest Computed Tomography in Children With Primary Ciliary Dyskinesia**  
Mollica, F., Caudri, D., Makani, P., Davis, S., Dell, S. D., Ferkol, T. W., Knowles, M. R., Leigh, M. W., Milla, C. E., Pittman, J. E., Rosenfeld, M., Sagel, S. D., Shapiro, et al  
AMER THORACIC SOC.2024
  - **Bi-allelic LAMP3 Variants in Three Children With Interstitial Lung Disease: Evidence of a Novel Disease-gene Association**  
Hinds, D., Keehan, L., Fischer, A. J., Bonner, D., Bernstein, J., Wheeler, M., Wegner, D. J., Cole, F. S., Wambach, J. A., Milla, C. E., Undiagnosed Dis Network  
AMER THORACIC SOC.2024
  - **The Inovirus Pf4 Triggers Antiviral Responses and Disrupts the Proliferation of Airway Basal Epithelial Cells.** *Viruses*  
Popescu, M. C., Haddock, N. L., Burgener, E. B., Rojas-Hernandez, L. S., Kaber, G., Hargil, A., Bollyky, P. L., Milla, C. E.  
2024; 16 (1)
  - **The challenges and promise of sweat sensing.** *Nature biotechnology*  
Davis, N., Heikenfeld, J., Milla, C., Javey, A.  
2024
  - **Clinical and functional spectrum of RAC2-related immunodeficiency.** *Blood*  
Donkó, A., Sharapova, S. O., Kabat, J., Ganesan, S., Hauck, F., Marois, L., Abbott, J., Moshous, D., Williams, K. W., Campbell, N., Martin, P. L., Lagresle-Peyrou, C., Trojan, et al  
2024
  - **Situs ambiguus is associated with adverse clinical outcomes in children with primary ciliary dyskinesia.** *Chest*  
Kaspy, K. R., Dell, S. D., Davis, S. D., Ferkol, T. W., Rosenfeld, M., Sagel, S. D., Milla, C., Olivier, K. N., Barber, A. T., Wee, W., Lin, F. C., Li, L., Rampakakis, et al  
2023
  - **Azithromycin promotes proliferation, and inhibits inflammation in nasal epithelial cells in primary ciliary dyskinesia.** *Scientific reports*  
Varenjiova, Z., Rojas-Hernandez, L. S., Spano, J., Capek, V., Rosenberg-Hasson, Y., Holmes, T., Milla, C.  
2023; 13 (1): 14453
  - **Treatment of Fetal Cystic Fibrosis With Cystic Fibrosis Transmembrane Conductance Regulator Modulation Therapy.** *Annals of internal medicine*  
Blumenfeld, Y. J., Hintz, S. R., Aziz, N., Barth, R. A., Spano, J. M., El-Sayed, Y. Y., Milla, C.  
2023
  - **Airway Disease Progression on Chest Computed Tomography in Children With Primary Ciliary Dyskinesia**  
Kinghorn, B., Rosenfeld, M., Caudri, D., Dell, S. D., Ferkol, T. W., Knowles, M. R., Milla, C. E., Mollica, F., Onchiri, F., Sagel, S. D., Shapiro, A. J., Pittman, J. E., Sullivan, et al  
AMER THORACIC SOC.2023
  - **Primary Ciliary Dyskinesia in Patients With CCNO Variants: A Case Series**  
Despotes, K. A., Leigh, M. W., Davis, S. D., Sagel, S. D., Vece, T. J., Dell, S. D., Milla, C. E., Shapiro, A. J., Ferkol, T. W., Sullivan, K. M., Capps, N. A., Knowles, M. R., Zariwala, et al  
AMER THORACIC SOC.2023
  - **Non-Invasive Touch-Based Lithium Monitoring Using an Organohydrogel-Based Sensing Interface** *ADVANCED MATERIALS TECHNOLOGIES*  
Lin, S., Zhu, J., Yeung, J., Wu, T., Cheng, X., Zhao, Y., Wang, B., Tan, J., Peeters, S., Seroussi, A., Sankararaman, S., Milla, C., Emaminejad, et al  
2023
  - **Notch signaling inactivation by small molecule gamma-secretase inhibitors restores the multiciliated cell population in the airway epithelium.** *American journal of physiology. Lung cellular and molecular physiology*  
Vladar, E. K., Kunimoto, K., Rojas-Hernandez, L. S., Spano, J. M., Sellers, Z. M., Joo, N. S., Cooney, R. A., Axelrod, J. D., Milla, C. E.  
2023

- **The Danish-American Research Exchange (DARE): a cross-sectional study of a binational research education program.** *BMC medical education*  
Mehta, K. M., Petersen, K. L., Goodman, S., Sorensen, H. T., Bogsted, M., Olesen, J. D., Burks, S., Shaw, R. E., Hove, J. D., Ousager, J., Milla, C., Andersen, V., Ejskjar, et al  
2023; 23 (1): 96
- **SARS-CoV-2 replication in airway epithelia requires motile cilia and microvillar reprogramming.** *Cell*  
Wu, C., Lidsky, P. V., Xiao, Y., Cheng, R., Lee, I. T., Nakayama, T., Jiang, S., He, W., Demeter, J., Knight, M. G., Turn, R. E., Rojas-Hernandez, L. S., Ye, et al  
2022
- **Airway Disease in Children with Primary Ciliary Dyskinesia: Impact of Ciliary Ultrastructure Defect and Genotype.** *Annals of the American Thoracic Society*  
Kinghorn, B., Rosenfeld, M., Sullivan, E., Onchiri, F., Ferkol, T. W., Sagel, S. D., Dell, S. D., Milla, C., Shapiro, A. J., Sullivan, K. M., Zariwala, M. A., Pittman, J. E., Mollica, et al  
2022
- **Laterality Defects in Primary Ciliary Dyskinesia: Relationship to Ultrastructural Defect or Genotype.** *Annals of the American Thoracic Society*  
Barber, A. T., Shapiro, A. J., Davis, S. D., Ferkol, T. W., Atkinson, J. J., Sagel, S. D., Dell, S. D., Olivier, K. N., Milla, C. E., Rosenfeld, M., Li, L., Lin, F., Sullivan, et al  
2022
- **Autonomous wearable sweat rate monitoring based on digitized microbubble detection.** *Lab on a chip*  
Lin, H., Yu, W., Suarez, J. E., Athavan, H., Wang, Y., Yeung, C., Lin, S., Sankararaman, S., Milla, C., Emaminejad, S.  
2022
- **Wearable microneedle-based electrochemical aptamer biosensing for precision dosing of drugs with narrow therapeutic windows.** *Science advances*  
Lin, S., Cheng, X., Zhu, J., Wang, B., Jelinek, D., Zhao, Y., Wu, T., Horrillo, A., Tan, J., Yeung, J., Yan, W., Forman, S., Coller, et al  
2022; 8 (38): eabq4539
- **Basal airway epithelial cells from PCD have distinct proliferative and inflammatory responses**  
Vareniova, Z., Rojas, L., Spano, J., Capek, V., Holmes, T., Milla, C.  
EUROPEAN RESPIRATORY SOC JOURNALS LTD.2022
- **Distinct inflammatory responses and effect of Azithromycin on respiratory cells in PCD**  
Vareniova, Z., Rojas, L., Spano, J., Holmes, T., Milla, C.  
EUROPEAN RESPIRATORY SOC JOURNALS LTD.2022
- **Biochemical, biophysical, and immunological characterization of respiratory secretions in severe SARS-CoV-2 infections.** *JCI insight*  
Kratochvil, M. J., Kaber, G., Demirdjian, S., Cai, P. C., Burgener, E. B., Nagy, N., Barlow, G. L., Popescu, M., Nicolls, M. R., Ozawa, M. G., Regula, D. P., Pacheco-Navarro, A. E., Yang, et al  
2022; 7 (12)
- **Association of Neonatal Hospital Length of Stay with Lung Function in Primary Ciliary Dyskinesia.** *Annals of the American Thoracic Society*  
Wee, W. B., Leigh, M. W., Davis, S. D., Rosenfeld, M., Sullivan, K. M., Sawras, M. G., Ferkol, T. W., Knowles, M. R., Milla, C., Sagel, S. D., Zariwala, M. A., Pullenayegum, E., Dell, et al  
2022
- **Oral hycromone decreases hyaluronan in human study participants.** *The Journal of clinical investigation*  
Rosser, J. I., Nagy, N., Goel, R., Kaber, G., Demirdjian, S., Saxena, J., Bollyky, J. B., Frymoyer, A. R., Pacheco-Navarro, A. E., Burgener, E. B., Rajadas, J., Wang, Z., Arbach, et al  
2022; 132 (9)
- **Relationship Between Genotype/Ultrastructural Defect and Neonatal Respiratory Distress in Primary Ciliary Dyskinesia**  
Barber, A., Shapiro, A. J., Davis, S. D., Ferkol, T. W., Atkinson, J. J., Sagel, S. D., Dell, S. D., Olivier, K. N., Milla, C. E., Rosenfeld, M., Li, L., Lin, F., Sullivan, et al  
AMER THORACIC SOC.2022
- **Antibody Response to SARS-CoV-2 mRNA Vaccination in Patients with Cystic Fibrosis**  
Lee, L., Milla, C. E., Kim, P. S.

AMER THORACIC SOC.2022

- **Filamentous Bacteriophage in Patients with Primary Ciliary Dyskinesia and Chronic Pseudomonas Aeruginosa Endobronchial Infection**  
Burgener, E. B., Spano, J. M., Bollyky, P. L., Milla, C. E.  
AMER THORACIC SOC.2022
- **Progression of Upper Airway Manifestations in Primary Ciliary Dyskinesia Throughout Childhood**  
Dagher, I., Leigh, M. W., Rosenfeld, M., Ferkol, T. W., Sagel, S. D., Dell, S. D., Milla, C. E., Sullivan, K. M., Li, L., Lin, F., Zariwala, M., Knowles, M. R., Davis, et al  
AMER THORACIC SOC.2022
- **A touch-based multimodal and cryptographic bio-human-machine interface.** *Proceedings of the National Academy of Sciences of the United States of America*  
Lin, S., Zhu, J., Yu, W., Wang, B., Sabet, K. A., Zhao, Y., Cheng, X., Hojaiji, H., Lin, H., Tan, J., Milla, C., Davis, R. W., Emaminejad, et al  
2022; 119 (15): e2201937119
- **Biochemical, Biophysical, and Immunological Characterization of Respiratory Secretions in Severe SARS-CoV-2 (COVID-19) Infections.** *medRxiv : the preprint server for health sciences*  
Kratochvil, M. J., Kaber, G., Demirdjian, S., Cai, P. C., Burgener, E. B., Nagy, N., Barlow, G. L., Popescu, M., Nicolls, M. R., Ozawa, M. G., Regula, D. P., Pacheco-Navarro, A. E., Yang, et al  
2022
- **Combined agonists act synergistically to increase mucociliary clearance in a cystic fibrosis airway model.** *Scientific reports*  
Joo, N. S., Cho, H., Shinbashi, M., Choi, J. Y., Milla, C. E., Engelhardt, J. F., Wine, J. J.  
2021; 11 (1): 18828
- **Macrophage-derived IL-6 trans-signaling as a novel target in the pathogenesis of bronchopulmonary dysplasia.** *The European respiratory journal*  
Hirani, D., Alvira, C. M., Danopoulos, S., Milla, C., Donato, M., Tian, L., Mohr, J., Dinger, K., Vohlen, C., Selle, J., Koningsbruggen-Rietschel, S. V., Barbarino, V., Pallasch, et al  
2021
- **Upper Airway Manifestations of Primary Ciliary Dyskinesia During Childhood**  
Dagher, Leigh, M. W., Rosenfeld, M., Ferkol, T. W., Sagel, S. D., Dell, S. M., Milla, C. E., Sullivan, K. M., Dalldorf, D. A., Li, L., Lin, F., Zariwala, M. A., Knowles, M. R., et al  
AMER THORACIC SOC.2021
- **Relationship Between Genotype and Laterality Defects in Primary Ciliary Dyskinesia**  
Barber, A., Shapiro, A. J., Davis, S. D., Ferkol, T. W., Atkinson, J. J., Sagel, S. D., Dell, S. M., Olivier, K. N., Milla, C. E., Rosenfeld, M., Li, L., Lin, F., Sullivan, et al  
AMER THORACIC SOC.2021
- **Therapies Used for Primary Ciliary Dyskinesia in North American Children**  
Gardner, R. A., Davis, S. D., Rosenfeld, M., Ferkol, T. W., Sagel, S. D., Dell, S. D., Milla, C. E., Sullivan, K. M., Zariwala, M. A., Knowles, M. R., Leigh, M. W., Genetic Disorders Mucociliary  
AMER THORACIC SOC.2021
- **Physical Properties of COVID-19 Acute Respiratory Distress Syndrome (ARDS) Sputum**  
Pacheco-Navarro, A., Kratochvil, M. J., Kaber, G., Roque, J., Blish, C., Yang, S., Nadeau, K. C., Heilshorn, S. C., Milla, C. E., Rogers, A., Bollyky, P.  
AMER THORACIC SOC.2021
- **Severity of Neonatal Respiratory Distress and Future Lung Function in Children with Primary Ciliary Dyskinesia**  
Wee, W. B., Sullivan, K. M., Sawras, M. G., Leigh, M. W., Davis, S. D., Pullenayegum, E., Ferkol, T. W., Knowles, M. R., Milla, C. E., Rosenfeld, M., Sagel, S. D., Zariwala, M. A., Dell, et al  
AMER THORACIC SOC.2021
- **Long-term safety and efficacy of lumacaftor-ivacaftor therapy in children aged 6-11 years with cystic fibrosis homozygous for the F508del-CFTR mutation: a phase 3, open-label, extension study.** *The Lancet. Respiratory medicine*  
Chilvers, M. A., Davies, J. C., Milla, C., Tian, S., Han, Z., Cornell, A. G., Owen, C. A., Ratjen, F.  
2021

- **Dynamic light scattering microrheology for soft and living materials.** *Soft matter*  
Cai, P. C., Krajina, B. A., Kratochvil, M. J., Zou, L., Zhu, A., Burgener, E. B., Bollyky, P. L., Milla, C. E., Webber, M. J., Spakowitz, A. J., Heilshorn, S. C.  
2021
- **Clinical use of shear-wave elastography for detecting liver fibrosis in children and adolescents with cystic fibrosis.** *Pediatric radiology*  
Levitte, S. n., Lee, L. W., Isaacson, J. n., Zucker, E. J., Milla, C. n., Barth, R. A., Sellers, Z. M.  
2021
- **An autonomous wearable system for diurnal sweat biomarker data acquisition.** *Lab on a chip*  
Hojajji, H., Zhao, Y., Gong, M. C., Mallajosyula, M., Tan, J., Lin, H., Hojajji, A. M., Lin, S., Milla, C., Madni, A. M., Emaminejad, S.  
2020
- **RETROSPECTIVE CHARACTERIZATION OF NONTUBERCULOUS MYCOBACTERIA AT A SINGLE CF CENTER**  
Si, X., Qin, F., Milla, C.  
WILEY.2020: S175
- **PF BACTERIOPHAGE ALTERS IMMUNE PROFILE IN EPITHELIAL CELLS AND SPUTUM FROM PATIENTS WITH CYSTIC FIBROSIS**  
Burgener, E. B., Rojas, L., Secor, P. R., Bollyky, P. L., Milla, C.  
WILEY.2020: S172
- **IMPROVING THE TRANSITION-OF-CARE PROCESS IN CYSTIC FIBROSIS**  
Alicia, M., Si, X., Helmers, M., Chhatwani, L., Milla, C.  
WILEY.2020: S339–S340
- **Longitudinal assessment of Lung Clearance Index as a marker of disease progression in a cohort of children with cystic fibrosis and normal spirometry**  
Spano, J., Ryan, S., Milla, C.  
EUROPEAN RESPIRATORY SOC JOURNALS LTD.2020
- **Area Under the Curve Achievement of Once Daily Tobramycin in Children with Cystic Fibrosis during Clinical Care.** *Pediatric pulmonology*  
Brockmeyer, J. M., Wise, R. T., Burgener, E. B., Milla, C., Frymoyer, A.  
2020
- **Noninvasive wearable electroactive pharmaceutical monitoring for personalized therapeutics.** *Proceedings of the National Academy of Sciences of the United States of America*  
Lin, S., Yu, W., Wang, B., Zhao, Y., En, K., Zhu, J., Cheng, X., Zhou, C., Lin, H., Wang, Z., Hojajji, H., Yeung, C., Milla, et al  
2020
- **Ciliary Localization of the Intraflagellar Transport Protein IFT88 Is Disrupted in Cystic Fibrosis.** *American journal of respiratory cell and molecular biology*  
Stevens, E. M., Vladar, E. K., Alanin, M. C., Christensen, S. T., von Buchwald, C., Milla, C.  
2020; 62 (1): 120–23
- **Pf Bacteriophage and Their Impact on Pseudomonas Virulence, Mammalian Immunity, and Chronic Infections.** *Frontiers in immunology*  
Secor, P. R., Burgener, E. B., Kinnersley, M. n., Jennings, L. K., Roman-Cruz, V. n., Popescu, M. n., Van Belleghem, J. D., Haddock, N. n., Copeland, C. n., Michaels, L. A., de Vries, C. R., Chen, Q. n., Pourtois, et al  
2020; 11: 244
- **Defining the Clinical Utility of the Lung Clearance Index: Are We There Yet?** *American journal of respiratory and critical care medicine*  
Spano, J. n., Milla, C. E.  
2020
- **Retrospective Categorization of Nontuberculous Mycobacteria at a Single Cystic Fibrosis Center**  
Si, X., Qin, F., Milla, C. E.  
AMER THORACIC SOC.2020
- **Improving the Transition of Care Process for Cystic Fibrosis Patients**  
Si, X., Mirza, A. A., Helmers, M., Chhatwani, L., Milla, C. E.  
AMER THORACIC SOC.2020

- **Methods for Extraction and Detection of Pf Bacteriophage DNA from the Sputum of Patients with Cystic Fibrosis.** *PHAGE (New Rochelle, N.Y.)*  
Burgener, E. B., Secor, P. R., Tracy, M. C., Sweere, J. M., Bik, E. M., Milla, C. E., Bollyky, P. L.  
2020; 1 (2): 100–108
- **Association of Genotype and Structural Lung Disease in a Cohort of Children with PCD**  
Kinghorn, B., Rosenfeld, M., Davis, S. D., Ferkol, T. W., Sagel, S. D., Dell, S. D., Milla, C. E., Shapiro, A. J., Sullivan, K. M., Zariwala, M. A., Pittman, J. E., Tiddens, H., Kemner-van de Corput, et al  
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