Stanford



Carlos Milla

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

Pediatrics - Pulmonary Medicine

CLINICAL OFFICE (PRIMARY)

- **Pediatric Pulmonary and Cystic Fibrosis Clinic**

  770 Welch Rd Ste 380

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  Palo Alto, CA 94304

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Meena Kakani - Administrative Manager

  Email mkakani@stanford.edu

Bio

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-Univ Med Line, Pediatrics - Pulmonary Medicine
- Professor-Univ Med 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

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

- A Prospective Study to Evaluate Biological and Clinical Effects of Significantly Corrected CFTR Function, Not Recruiting
- Evaluation of ELX/TEZ/IVA in Cystic Fibrosis (CF) Subjects 2 Through 5 Years, Not Recruiting
- Feasibility of a Mobile Medication Plan Application in CF Patient Care, Not Recruiting
- Impact of Discontinuing Chronic Therapies in People With Cystic Fibrosis on Highly Effective CFTR Modulator Therapy, Not Recruiting
- A Study Evaluating the Long-term Safety of VX-445 Combination Therapy, Not Specified

Publications

PUBLICATIONS

- **Purification of filamentous phage ssDNA genomes using Chaotropic salt/silica methods.** *bioRxiv : the preprint server for biology*
  Perez-Rodriguez, S., Khosravi, A., Milla, C., Bollyky, P. L.
  2026

- **Smaller Genomes and Shorter Prophage Sequences Differentiate Clinical from Environmental Isolates of Pseudomonas aeruginosa.** *bioRxiv : the preprint server for biology*
  Targ, R. W., Blankenberg, P., Flamholz, Z., Pourtois, J. D., Banaei, N., Burgener, E. B., Milla, C. E., Bollyky, P. L.
  2026
- **Discovery of a Novel Gamma-Secretase Small Molecule Inhibitor for the Treatment of Cystic Fibrosis**
  Milla, M. E., Edwards, J. P., Tuch, B. B., Rebbapragada, Rao, R., Milla, C. E.
  OXFORD UNIV PRESS.2026
- **Longitudinal Characterization of Respiratory Tract Exacerbations in Children and Adults With Primary Ciliary Dyskinesia**
  Kinghorn, B., Wagner, B., Sullivan, K. M., Keck, A., Brennan, S., Shapiro, A. J., Ratjen, F. A., Davis, S. D., Ferkol, T. A., Zariwala, M. A., Leigh, M. W., Capps, N., Milla, et al
  OXFORD UNIV PRESS.2026
- **Clinical Utility of Oscillometry for Lung Function Monitoring After Hematopoietic Stem Cell Transplantation During an Acute Hospitalization**
  Si, X., Knihtila, H., Milla, C. E.
  OXFORD UNIV PRESS.2026
- **Combined Lung-Liver Transplant to Treat Complications After Bone Marrow Transplant in a Child**
  Davala, S. V., Cornfield, D. N., Milla, C., Ebel, N., Kirchner, V. A., Martin, E., Busque, S., Si, X.
  ELSEVIER SCIENCE INC.2026: 332-333
- **Incorporating Body Composition Metrics into Pediatric Lung Transplant Care: A Quality Improvement Pilot**
  Lee, J., Sadrieh, P., Matel, J., Brockmeyer, J., Milla, C., Si, X.
  ELSEVIER SCIENCE INC.2026: 337
- **Therapeutic potential of synergistic mucociliary clearance for cystic fibrosis airways by combined -adrenergic + cholinergic agonists.** *The Journal of clinical investigation*
  Joo, N. S., Birket, S. E., Keith, J. D., Ianowski, J. P., Luan, X., Spano, J., Bollyky, J. B., Dobry, M. N., Sabater, J. R., Williams, R. W., Engelhardt, J. F., Wine, J. J., Milla, et al
  2026
- **Resilient nanostructured bioanalytic microneedle longitudinally monitors preclinical renal and hepatic drug clearance and dysfunction.** *Science translational medicine*
  Zhu, J., Cheng, X., Bahramian, M., Yao, K., Li, Z., Hu, B., Wu, T., Sabet, K. A., Cui, J., Tan, J., Fang, J., Li, Y., Ho, et al
  2026; 18 (843): eadr5493
- **Biallelic LAMP3 Variants in Five Families with Interstitial Lung Disease: Evidence of a Disease-Gene Association.** *Genetics in medicine : official journal of the American College of Medical Genetics*
  Keehan, L. A., Ono-Minagi, H., Hadhud, M., Rips, J., Hinds, D. M., Fischer, A. J., Bartlett, J. A., McCray, P. B., Qawasmi, N., Nathan, N., Louvrier, C., Desroziers, T., Damme, et al
  2026: 102531
- **Tidal Breathing Nasal Nitric Oxide Measurement as a Test for Primary Ciliary Dyskinesia in Young Children.** *The European respiratory journal*
  Leigh, M. W., Shapiro, A. J., Chawla, K. K., Hazucha, M. J., Brown, D. E., Lin, F. C., Jiang, L., Carson, J. L., Davis, S. D., Dell, S. D., Sagel, S. D., Rosenfeld, M., Milla, et al
  2026
- **Phage-Mediated Iron Acquisition by Pseudomonas aeruginosa.** *bioRxiv : the preprint server for biology*
  Khosravi, A., Gupta, A., Hajfathalian, M., Burgener, E. B., Rodriguez, S. P., Milla, C. E., Bollyky, P. L.
  2026
- **Hitting the Target: Model-Informed Precision Dosing of Tobramycin in Pediatric Patients with Cystic Fibrosis.** *Pharmaceuticals (Basel, Switzerland)*
  Brockmeyer, J. M., Bio, L., Milla, C., Frymoyer, A.
  2026; 19 (1)
- **Peripheral Muscle Strength and Lung Function in Adults with Cystic Fibrosis.** *Respiratory medicine*
  Lewis, T., Spano, J., Kwok, J., Moss, R., Smith, C., Mohabir, P. K., Sellers, Z. M., Cochrane-Snyman, K. C., Milla, C.
  2026: 108624

- **Feasibility of machine learning analysis for the identification of patients with possible primary ciliary dyskinesia.** *Orphanet journal of rare diseases*
  Burns, G., Kauffman, C., Manion, M., Pai, R. A., Milla, C., O'Connor, M. G., Shapiro, A. J., Bjornson-Pennell, H.
  2025; 20 (1): 516

- **Iron InducesAspergillusProteases in Cystic Fibrosis Allergic Bronchopulmonary Aspergillosis.** *American journal of respiratory cell and molecular biology*
  Chatterjee, P., Ahmad, A., Dhillon, E., Matthaiou, E. I., Abd El-Hafeez, A. A., Chiu, W., Illek, B., Stevens, D. A., Milla, C., Hsu, J. L.
  2025

- **Airway Disease Progression on Chest Computed Tomography in Children With Primary Ciliary Dyskinesia.** *Pediatric pulmonology*
  Kinghorn, B., Mollica, F., Caudri, D., Davis, S. D., Dell, S., Ferkol, T. W., Gardner, R. A., Knowles, M. R., Milla, C., Pittman, J. E., Rosenfeld, M., Sagel, S. D., Shapiro, et al
  2025; 60 (9): e71287

- **Respiratory rate measured by high-adherence wearable correlates with clinical predictors of pulmonary exacerbation in cystic fibrosis patients**
  Milla, C., Spano, J., Demchak, L., Conti, T., Mirza, A., Teresi, R.
  EUROPEAN RESPIRATORY SOC JOURNALS LTD.2025

- **Transcriptomic effects of Azithromycin on airway basal cells in CCDC39 primary ciliary dyskinesia**
  Varenyiova, Z., Vladar, E., Rojas-Hernandez, L., Spano, J., Capek, V., Milla, C.
  EUROPEAN RESPIRATORY SOC JOURNALS LTD.2025

- **PRenatal mOdulator treatment to PrEvent CF complicaTions (PROTECT) workshop report.** *Journal of cystic fibrosis : official journal of the European Cystic Fibrosis Society*
  Szentpetery, S., Riva, D., Blumenfeld, Y. J., Engelhardt, J. F., Luna-Paredes, C., Milla, C., Schneider-Futschik, E. K., Sheffield, J. S., Darrah, R., Davies, J. C., Flume, P. A., Foil, K. E., Fortner, et al
  2025

- **Investigation of effects of collection conditions on amino acid concentrations in sweat and correlations with their Circulating levels in plasma.** *Scientific reports*
  Spano, J., Demchak, L., Nakano, K., Conti, T., Heikenfeld, J., Milla, C.
  2025; 15 (1): 23198

- **Two Cases of Bronchiolitis Obliterans With Late-onset Left Lung Collapse Following Mucocutaneous Disease Associated With Mycoplasma Pneumoniae Infection**
  Hendra, K., Jin, K., Lee, J., Si, X., Tracy, M., Milla, C. E., Cornfield, D. N., Steffes, L. C.
  AMER THORACIC SOC.2025

- **The Association of Neonatal Respiratory Distress With Ciliary Ultrastructure and Genotype in Primary Ciliary Dyskinesia.** *Pediatric pulmonology*
  Barber, A. T., Davis, S. D., Ferkol, T. W., Shapiro, A. J., Atkinson, J., Sagel, S. D., Dell, S. D., Olivier, K., Milla, C., Rosenfeld, M., Li, L., Lin, F. C., Sullivan, et al
  2025; 60 (5): e71091

- **New Pseudomonas infections drive Pf phage transmission in CF airways.** *JCI insight*
  Pourtois, J. D., Haddock, N. L., Gupta, A., Khosravi, A., Martinez, H. A., Schmidt, A. K., Prakash, P. S., Jain, R., Fleming, P., Chang, T. H., Milla, C., Secor, P. R., De Leo, et al
  2025

- **Feasibility of Machine Learning Analysis for the Identification of Patients with Possible Primary Ciliary Dyskinesia.** *medRxiv : the preprint server for health sciences*
  Burns, G., Kauffman, C., Manion, M., Pai, R. A., Milla, C., O'Connor, M. G., Shapiro, A. J., Bjornson-Pennell, H.
  2025

- **Navigating ETI Use in Pediatric Patient with CF Post Lung Transplant**
  Si, X., Brockmeyer, J., Milla, C., Cornfield, D., Conrad, C., Avdimiretz, N.
  ELSEVIER SCIENCE INC.2025

- **The globalization of cystic fibrosis care.** *Current opinion in pediatrics*

Milla, C. E.
2025

- **Tandem metabolic reaction-based sensors unlock in vivo metabolomics.** *Proceedings of the National Academy of Sciences of the United States of America*
  Cheng, X., Li, Z., Zhu, J., Wang, J., Huang, R., Yu, L. W., Lin, S., Forman, S., Gromilina, E., Puri, S., Patel, P., Bahramian, M., Tan, et al
  2025; 122 (9): e2425526122

- **Bi-allelic LAMP3 variants in childhood interstitial lung disease: a surfactant-related disease.** *EBioMedicine*
  Louvrier, C., Desroziers, T., Soreze, Y., Delgado Rodriguez, M., Thomas, L., Nau, V., Dastot-Le Moal, F., Bernstein, J. A., Cole, F. S., Damme, M., Fischer, A., Griese, M., Hinds, et al
  2025; 113: 105626

- **Progression of Otologic and Nasal Symptoms in Primary Ciliary Dyskinesia Throughout Childhood.** *OTO open*
  Dagher, I., Kimple, A. J., Ferkol, T. W., Sagel, S. D., Dell, S. D., Milla, C. E., Li, L., Lin, F. C., Sullivan, K. M., Zariwala, M. A., Knowles, M. R., Rosenfeld, M., Leigh, et al
  2025; 9 (1): e70079

- **Prophages are infrequently associated with antibiotic resistance in Pseudomonas aeruginosa clinical isolates.** *mSphere*
  Chang, T. H., Pourtois, J. D., Haddock, N. L., Furukawa, D., Kelly, K. E., Amanatullah, D. F., Burgener, E., Milla, C., Banaei, N., Bollyky, P. L.
  2025: e0090424

- **Durable reconstitution of sinonasal epithelium by transplant of CFTR gene corrected airway stem cells.** *bioRxiv : the preprint server for biology*
  Bravo, D. T., Vaidyanathan, S., Baker, J., Sinha, V., Tsai, E., Roozdar, P., Kong, W. W., Atkinson, P. J., Patel, Z. M., Hwang, P. H., Rao, V. K., Negrin, R. S., Wine, et al
  2025

- **Pseudomonas superinfection drives Pf phage transmission within airway infections in patients with cystic fibrosis.** *bioRxiv : the preprint server for biology*
  Pourtois, J. D., Haddock, N. L., Gupta, A., Khosravi, A., Martinez, H., Schmidt, A. K., Prakash, P. S., Jain, R., Fleming, P., Chang, T. H., Milla, C., Secor, P. R., De Leo, et al
  2025

- **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*
  Varenyiova, 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**

Varenyiova, 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**
  Varenyiova, Z., Rojas, L., Spano, J., Holmes, T., Milla, C.
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