

Curriculum Vitae

Sébastien Boutin

Dr., Ph.D.

d.o.b. November 09th, 1985, in Cholet, France

University Education

2004	2007	Licence degree in Biology: speciality in ecology and evolution. Poitiers university, France	
2007	-	2008	Master degree (first year) at Poitiers university, France
2008	2009	Master degree (second year) at Rennes university, France	
2009	2013	PhD student at the Université Laval, Canada	

Scientific Career

Since 2020	Junior Group leader “Microbiome” at the Translational Lung Research Center Heidelberg.
2019-2020	Principal investigator at the Translational Lung Research Center Heidelberg.
2014-2019	Research assistant at the Department of Infectious Diseases, University Hospital Heidelberg.
2013-2014	Post-doctoral Fellowship at the Université Laval, Canada

Awards and Honors

2019	ECFS Young Fellows Travel Award
2012	Best presentation award (2nd position) : 15 ^{ème} édition du colloque annuel du Centre Interuniversitaire de Recherche sur le Saumon Atlantique (CIRSA). (100 CAD).
2011	Travel award: Canadian Society of ecology and evolution (CSEE), 2011 (500 CAD)
2009-2012	RAQ-FONCER scholarships (10500 CAD/year)

Citation Record

Total citations: 2,754; h-index: 22; h-index since 2017: 22 (Google Scholar July 27th, 2022)

Top-10 selected Publications

Frey DL, Bridson C, Dittrich S, Graeber SY, Stahl M, Wege S, Herth F, Sommerburg O, Schultz C, Dalpke A, Mall MA, **Boutin S**. Changes in Microbiome Dominance Are Associated With Declining Lung Function and Fluctuating Inflammation in People With Cystic Fibrosis. **Front Microbiol**. 2022 May 13;13:885822. doi: 10.3389/fmicb.2022.885822. PMID: 35633718; PMCID: PMC9136159.

Tony-Odigie A, Wilke L, **Boutin S**, Dalpke AH, Yi B. Commensal Bacteria in the Cystic Fibrosis Airway Microbiome Reduce *P. aeruginosa* Induced Inflammation. **Front Cell Infect Microbiol**. 2022 Jan 31;12:824101. doi:10.3389/fcimb.2022.824101. PMID: 35174108; PMCID: PMC8842722.

Metzger MI, Graeber SY, Stahl M, Sommerburg O, Mall MA, Dalpke AH, **Boutin S**. A Volatile and Dynamic Longitudinal Microbiome Is Associated With Less Reduction in Lung Function in Adolescents With Cystic Fibrosis. **Front Cell Infect Microbiol**. 2021 Dec 6;11:763121. doi: 10.3389/fcimb.2021.763121. PMID: 34938669; PMCID: PMC8687143.

Graeber SY, **Boutin S**, Wielpütz MO, Joachim C, Frey DL, Wege S, Sommerburg O, Kauczor HU, Stahl M, Dalpke AH, Mall MA. Effects of Lumacaftor-Ivacaftor on Lung Clearance Index, Magnetic Resonance Imaging, and Airway Microbiome in Phe508del Homozygous Patients with Cystic Fibrosis. **Ann Am Thorac Soc**. 2021 Jun;18(6):971-980. doi: 10.1513/AnnalsATS.202008-1054OC. PMID: 33600745.

Frey DL, **Boutin S**, Dittrich SA, Graeber SY, Stahl M, Wege S, Herth FJF, Sommerburg O, Schultz C, Mall MA, Dalpke AH. Relationship between airway dysbiosis, inflammation and lung function in adults with cystic fibrosis. **J Cyst Fibros**. 2021 Sep;20(5):754-760. doi: 10.1016/j.jcf.2020.12.022. Epub 2021 Jan 8. PMID: 33431308.

Kolbe U, Yi B, Poth T, Saunders A, **Boutin S**, Dalpke AH. Early Cytokine Induction Upon *Pseudomonas aeruginosa* Infection in Murine Precision Cut Lung Slices Depends on Sensing of Bacterial Viability. **Front Immunol**. 2020 Oct 30;11:598636. doi: 10.3389/fimmu.2020.598636. PMID: 33250899; PMCID: PMC7673395.

Schmitt FCF, Lipinski A, Hofer S, Uhle F, Nussbag C, Hackert T, Dalpke AH, Weigand MA, Brenner T, **Boutin S**. Pulmonary microbiome patterns correlate with the course of the disease in patients with sepsis-induced ARDS following major abdominal surgery. **J Hosp Infect**. 2020 Apr 24:S0195-6701(20)30203-6. doi: 10.1016/j.jhin.2020.04.028. Epub ahead of print. PMID: 32339614.

Boutin S, Depner M, Stahl M, Graeber SY, Dittrich SA, Legatzki A, von Mutius E, Mall M, Dalpke AH. Comparison of Oropharyngeal Microbiota from Children with Asthma and Cystic Fibrosis. **Mediators Inflamm**. 2017;2017:5047403. doi: 10.1155/2017/5047403. Epub 2017 Dec 27. PMID: 29445257; PMCID: PMC5763206.

Boutin S, Graeber SY, Stahl M, Dittrich AS, Mall MA, Dalpke AH. Chronic but not intermittent infection with *Pseudomonas aeruginosa* is associated with global changes of the lung microbiome in cystic fibrosis. **Eur Respir J**. 2017 Oct 5;50(4):1701086. doi: 10.1183/13993003.01086-2017. PMID: 28982777.

Boutin S, Graeber SY, Weitnauer M, Panitz J, Stahl M, Clausnitzer D, Kaderali L, Einarsson G, Tunney MM, Elborn JS, Mall MA, Dalpke AH. Comparison of microbiomes from different niches of upper and lower airways in children and adolescents with cystic fibrosis. **PLoS One**. 2015 Jan 28;10(1):e0116029. doi: 10.1371/journal.pone.0116029. PMID: 25629612; PMCID: PMC4309611.