

THE LUNG ASSOCIATION RESEARCH REPORT 2012-2016

Research helps define ways to prevent lung disease; to improve diagnoses; provide new tools for effective education and treatment; to improve quality of life for those who struggle to breathe; to improve health systems and, ultimately, to find cures.

Every time a donor chooses to support The Lung Association, the donor is choosing to put air back into the lungs of fellow Canadians.

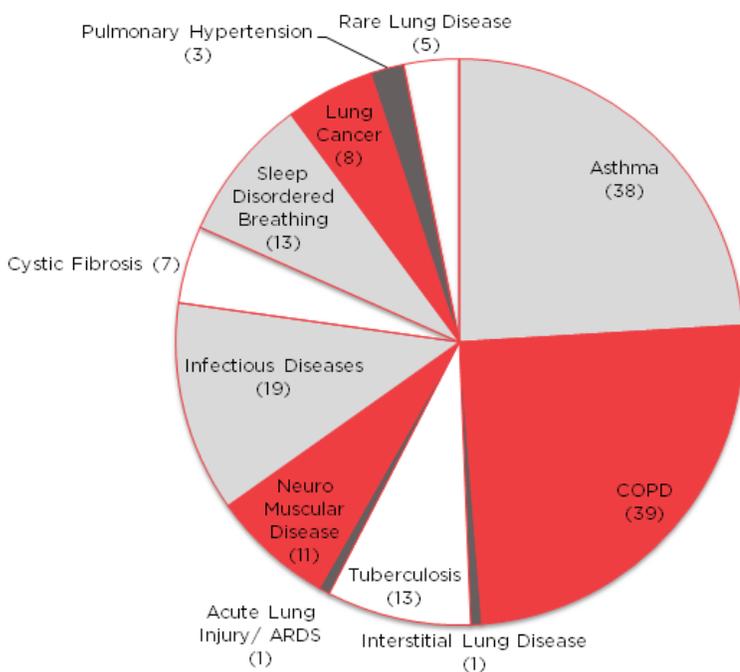
**Funding research.
Funding breath.
2012-2016**

Projects funded:
300

Total funding :
\$11,811,434.47

Please
DONATE
lung.ca

PROJECTS FUNDED UNDER NRRS



FUNDING PER AREA

Asthma	\$2,186,545
COPD	\$1,296,184
Immunology	\$973,894
Tuberculosis	\$671,884
Infectious diseases	\$665,958
Mechanical Ventilation/Biomechanics	\$634,722
Pneumonia	\$443,523
Sleep Disordered Breathing	\$371,205
Lung Cancer	\$331,088
Neuro Muscular Disease	\$285,949
Cystic Fibrosis	\$277,555
Pulmonary Fibrosis	\$269,150
Tobacco	\$266,629
Pulmonary Rehab	\$247,000
Lung Transplant	\$246,304
Neonatal Lung Disease	\$238,722
Rare Lung Disease	\$160,469
Air Quality	\$153,290
Early Detection/Diagnosis	\$150,011
Pulmonary Hypertension	\$147,986
Toxicity	\$121,710
Critical Illness	\$103,193
Interstitial Lung disease	\$49,952
Acute Lung Injury	\$30,000
Other	\$1,488,512

*NRRS is National Respiratory Research Strategy. This strategy was developed in 2015 to define areas of priority in funding.

Lung Research Over the Years

- 1895 Asthma characterized as inflammatory disease
- 1914 First public health vaccines produced
- 1914 Field of thoracic surgery developed
- 1940 Pulmonary damage caused by smoking identified
- 1940 Early diagnosis of TB through chest X-rays
- 1959 The Canadian Lung Association Research Grants and Fellowship program is established
- 1970 First successful trials of cyclosporine - anti-rejection drug used in lung transplants
- 1983 First successful single lung transplant in the world at Toronto General Hospital
- 1989 Discovery of the gene that causes cystic fibrosis by a team at SickKids Hospital
- 2003 Development of the first draft sequence of the SARS virus
- 2009 Ottawa researcher discovers drug combo that reduces hospital admissions for infants with bronchiolitis
- 2010 Reduction of lung cancer deaths achieved through Lung Cancer Screening Trial
- 2015 Advances in lung cancer treatment and personalized care

What will the future bring?

The Impact: research in real life

THE DONORS

Vanessa & Chris

Donated to The Lung Association in lieu of wedding favours

"We think any research that could help even the healthiest person with preventative measures is very important...The sooner we are underway with appropriate research; the sooner we'll have a solution or a cure."



THE RESEARCHERS



Dr. Grace Parraga

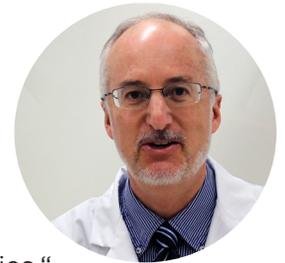
Professor and Researcher

"Lung health research matters because patients matter and people matter. And everyone deserves to breathe normally."

Dr. Shawn Aaron

Professor and Researcher

"We have a problem of overdiagnosis of lung disease and we have a problem of underdiagnosis of lung disease and we're trying to get at both of those situations through our studies."



THE PATIENTS



Becky Hollingsworth

Participant in Dr. Aaron's asthma diagnosis study

"I believe in clinical trials and I believe in science. Lung health research matters so that we can get the right diagnoses for people, therefore, get the right treatment."

Help us work towards a future in which all Canadians can breathe with ease. Can there be a future in which asthma is reversed or prevented? Can there be a future in which stem-cell research can help sick newborns live healthy lives with healthy lungs?

Visit www.lung.ca to learn more about our research and to donate.