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TRACKING TRENDS & PERFORMANCE IN BASIC RESEARCH

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INSTITUTIONAL INTERVIEWS - 2010

MONTH 2010



Chronic Obstructive Pulmonary Disease Research, the Top 20 Institutions

Institution Feature

*This month, ScienceWatch.com presents a listing of the top 20 institutions which, according to our Special Topic on **Chronic Obstructive Pulmonary Disease (COPD)**, attracted the highest total citations to their papers published on the topic in **Thomson Reuters-indexed journals**.*

These institutions are the top 20 ranked by total cites out of a pool of 9,945 institutions publishing on this topic, based on the string search "chronic obstructive pulmonary*" OR "COPD" OR "emphysema*" OR "chronic obstructive bronchitis*" OR "chronic obstructive airway*" OR "chronic obstructive lung*" in titles, abstracts, and keywords of original articles, reviews, and proceedings papers published between January 1, 1999 and October 31, 2009.

The resulting list of institutions includes 11 US-based universities and hospitals, as well as three from Canada, and five from Europe. There is also one multinational pharmaceutical company.

The clear leader of the pack is the University of London Imperial College of Science, Technology & Medicine, with 357 papers cited a total of 10,598 times. Imperial can also boast of having the top author from our analysis: Peter Barnes, who ranks at #1 by total cites and by total papers, based on 135 papers cited 6,153 times. In August of last year, Professor Barnes **talked** with *ScienceWatch.com* about one his highly cited review articles.

Harvard University ranks at #2, with 341 papers cited a total of 8,013 times. Genetic factors in lung disease, the role of particulate air pollution in COPD, and the quality of life in COPD patients are just a few of the topics studied at Harvard. Edwin Silverman, of Harvard's Channing Laboratory, is among the top 20 scientists by total number of papers.

Ranking at #3 is the University of British Columbia, with 244 papers cited a total of 5,608 times. Imagery of the lung is a big topic at this institution, and the work of James Hogg and Peter Paré, both Lead

Investigators at the university's iCapture Centre, as well as Investigator Don Sin, is recognized on the top 20 scientists list as well.

Coming in at #4 is Johns Hopkins University, with 223 papers cited a total of 5,256 times. Among the highly cited topics here are papers on lung-volume-reduction surgery, guidelines for the treatment of comorbid diseases, and predictors for mortality in COPD and emphysema.

The fifth-ranked institution is the University of California, Los Angeles, with 223 papers cited 4,311 times. Clinical trials, particularly with tiotropium, dominate the most-cited papers from UCLA.

The #6 slot belongs to the University of Pittsburgh, with 167 papers cited a total of 3,859 times. Steven Shapiro, who ranks at #11 on our list of the most-cited scientists, hails from this institution.

Washington University in St. Louis places at #7, with 146 papers cited 3,545 times. Matrix metalloproteinases and their role in lung diseases appear frequently on Washington University's list of most-cited papers; in fact, three of their top five papers deal with this topic.

The University of Maastricht in the Netherlands is #8, with 212 papers cited 3,528 times. Issues of inflammation, chronic tissue wasting, mortality, and the role of diet in COPD are among some of the highly cited topics under investigation at this university. Two of Maastricht's researchers, Emiel Wouters and Annemie Schols, are among the most-cited scientists in our analysis.

Placing at #9 is Tufts University, with 114 papers cited a total of 3,450 times. Ventilation and lung function in patients is a big focus at Tufts—more than half of the institution's top 20 papers deal with this topic in some way.

Rounding out the top 10 is the University of California, San Francisco, with 145 papers cited 3,411 times. UCSF's papers on the topic range from the molecular level to the human scale: papers on TGF-beta and IL-13 march side-by-side with papers on population health data, occupational burden of COPD, and comprehensive care.

The remaining US institutions on the list include the Harvard-affiliated hospital Brigham & Women's Hospital (#12), the University of Colorado (#14), the University of Washington (#18), and the Mayo Clinic & Mayo Foundation (#19). Canada has two more institutions on the list: the University of Toronto (#11) and McGill University (#16). Royal Brompton Hospital, which is affiliated with the University of London Imperial College of Science, Technology, & Medicine, ranks at #17. Two more Dutch institutions are included: the University of Groningen (#15) and Leiden University (#20). Multinational pharmaceutical company Boehringer Ingelheim ranks at #13 on the list.

The top 20 institutions in the Special Topic of COPD are listed in full in the table below:

Citations				
Rank	Institutions	Citations	Papers	Citations Per Paper
1	Univ London Imperial Coll Sci Technol & Med	10598	357	39.69
2	Harvard Univ	8013	341	23.50
3	Univ British Columbia	5608	244	22.98
4	JOHNS HOPKINS UNIV	5256	223	23.57
5	Univ Calif Los Angeles	4311	223	19.33
6	Univ Pittsburgh	3859	167	23.11

7	Washington Univ	3545	146	24.28
8	UNIV MAASTRICHT	3528	212	16.64
9	Tufts Univ	3450	114	30.26
10	Univ Calif San Francisco	3411	145	23.52
11	Univ Toronto	3347	175	19.13
12	Brigham & Womens Hosp	3262	153	21.32
13	BOEHRINGER INGELHEIM PHARMACEUT INC	3247	82	39.60
14	Univ Colorado	3101	132	23.49
15	Univ Groningen	3068	169	18.15
16	MCGILL UNIV	2891	156	18.53
17	Royal Brompton Hosp	2871	134	21.43
18	Univ Washington	2864	151	18.97
19	Mayo Clin & Mayo Fdn	2808	117	24.00
20	Leiden Univ	2714	129	21.04

Full citation details of all of these institutions can be seen in *Essential Science Indicators*SM from Thomson Reuters.

KEYWORDS: COPD, Chronic Obstructive Pulmonary Disease, Univ London Imperial Coll Sci Technol & Med, Harvard Univ, Univ British Columbia, JOHNS HOPKINS UNIV, Univ Calif Los Angeles, Univ Pittsburgh, Washington Univ.

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