

- [ScienceWatch Home](#)
- [Inside This Month...](#)
- [Interviews](#)

- [Featured Interviews](#)
- [Author Commentaries](#)
- [Institutional Interviews](#)
- [Journal Interviews](#)
- [Podcasts](#)

Analyses

- [Featured Analyses](#)
- [What's Hot In...](#)
- [Special Topics](#)

Data & Rankings

- [Sci-Bytes](#)
- [Fast Breaking Papers](#)
- [New Hot Papers](#)
- [Emerging Research Fronts](#)
- [Fast Moving Fronts](#)
- [Corporate Research Fronts](#)
- [Research Front Maps](#)
- [Current Classics](#)
- [Top Topics](#)
- [Rising Stars](#)
- [New Entrants](#)
- [Country Profiles](#)

About Science Watch

- [Methodology](#)
- [Archives](#)
- [Contact Us](#)
- [RSS Feeds](#)



[Interviews](#)

[Analyses](#)

[Data & Rankings](#)

Institutional Interviews : 2009 : Tuberculosis Research, the Top 20 Institutions

INSTITUTIONAL INTERVIEWS - 2009

February 2009



Tuberculosis Research, the Top 20 Institutions

A featured institution selection from *Essential Science Indicators*SM

*This month, ScienceWatch.com presents a listing of the top 20 institutions which, according to our Special Topic on **tuberculosis** (TB), 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 9,186 institutions publishing on this topic, *based solely on the keyword "tuberculosis" in the titles of papers.*

The resulting list of institutions is a balanced blend from the international community, and includes universities, government organizations, and the private sector. Eleven of the institutions are US-based, eight are European, and the final institution on the list is South African.

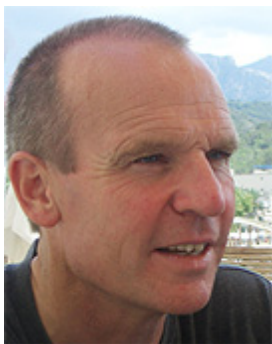
Powerhouse researchers in the field Stewart Cole and **Roland Brosch** would seem to be largely responsible for the ranking of the Institut Pasteur in the #1 slot. This institute has 336 papers in the analysis, which were cited a total of 11,677 times—more than 4,000 citations ahead of the rest of the pack. The paper Cole and Brosch coauthored with several colleagues at Pasteur and elsewhere, "Deciphering the biology of *Mycobacterium tuberculosis* from the complete genome sequence," (*Nature* 393[6685]: 537, 11 June 1998), also claims the top spot on the list of the most-cited papers over the past decade, with 2,809 cites at the time of the analysis.

Cole, now at EFPL, and Brosch, still at Pasteur, both spoke with *ScienceWatch.com* about their work, and these interviews will appear in future updates of the site. Brosch has also spoken with us in the past about another of his highly cited papers. In addition, coauthor Stephen Gordon, who was once affiliated with Pasteur and is now at University College Dublin, talks with us this month about his work.

Ranked at #2 is the US Centers for Disease Control and Prevention (CDC), with 417 papers cited 7,662 times. Among the CDC's highly cited papers are such topics as molecular epidemiology markers, outbreak reports, detection methods, and HIV-related TB.

The third-most-cited institution is Yeshiva University, with 189 papers cited a total of 7,180 times. Based on the papers included in this analysis, Yeshiva's work is largely concerned with murine models of TB and molecular-level studies of the organism.

Coming in at #4 is the World Health Organization (WHO), with 240 papers cited a total of 6,501 times. WHO researcher **Chris Dye** recently spoke with *ScienceWatch.com* about his work on TB epidemiology, and his



Chris Dye recently spoke with *ScienceWatch.com* about his work on TB epidemiology

colleague Mario Raviglione will be discussing his own research in a future update to the site.

The organization at #5 is the US National Institute of Allergy and Infectious Disease (NIAID), with 106 papers cited a total of 6,495 times. The NIAID's highly cited papers cover topics like the TB genome sequence, drug candidates, and studies on clinical isolates of TB. Associates at the NIAID are also coauthors on the top-ranked *Nature* paper.

At #6 is the **London School of Hygiene and Tropical Medicine**, with 296 papers cited a total of 6,117 times. The lead author of the paper ranked at #5 on the 10-year list, "The growing burden of tuberculosis—global trends and interactions with the HIV epidemic," (Corbett EL, *et al.*, *Arch. Intern. Med.* 163:1009-21, 2003), is affiliated with this institution.

The #7 organization is the Wellcome Trust Sanger Institute. Though it only has nine papers to its credit, these papers have been cited a total of 5,914 times to date. Associates of the Institute are coauthors on the top-ranked paper in our analysis.

Colorado State University ranks at #8, with 233 papers cited 5,501 times. Murine replication studies, virulence factors, and immunity are among the

topics explored in this university's list of highly cited papers.

Denmark's Statens Serum Institute (SSI) ranks at #9, with 170 papers cited 5,335 times. This institution does a great deal of vaccine research, as well as immunology-based diagnostics. One of the leading researchers from SSI is Peter Andersen, another scientist whose interview will be posted to *ScienceWatch.com* at a later date.

Rounding out the top 10 is Johns Hopkins University, with 265 papers cited a total of 5,174 times. Highly cited papers for Johns Hopkins include such topics as whole genome studies, latent TB, vaccine potency, detection assays, drug treatment, and drug resistance.

There are six more institutions on the list from the US, namely Harvard University (#11), the University of California, San Francisco (#13), Stanford University (#15), Case Western Reserve University (#16), the University of Pittsburgh (#17), and Boston University (#19); as well as one more institution apiece for the UK and Denmark—the University of Oxford (#12) and the Technical University of Denmark (#18). The Netherlands is represented by the National Institute of Public Health and Environmental Protection (#14). South Africa is also on the board, with the University of Stellenbosch (#20). ■

The top 20 institutions in the Special Topic of Tuberculosis				
Rank	Institution	Citations	Papers	Citations Per Paper
1	INST PASTEUR	11677	336	34.75
2	Ctr Dis Control & Prevent	7662	417	18.37
3	YESHIVA UNIV	7180	189	37.99
4	WHO	6501	240	27.09
5	NIAID	6495	106	61.27
6	LONDON SCH HYG & TROP MED	6117	296	20.67
7	Wellcome Trust Sanger Inst	5914	9	657.10
8	COLORADO STATE UNIV	5501	233	23.61
9	STATENS SERUM INST	5335	170	31.38
10	JOHNS HOPKINS UNIV	5174	265	19.52
11	HARVARD UNIV	4521	226	20.00
12	UNIV OXFORD	4476	117	38.26
13	UNIV CALIF SAN FRANCISCO	4005	167	23.98
14	NATL INST PUBL HLTH & ENVIRONM PROTECT	3973	117	33.96
15	STANFORD UNIV	3770	120	31.42
16	Case Western Reserve Univ	3485	149	23.39
17	UNIV PITTSBURGH	3330	72	46.25


18	TECH UNIV DENMARK	3102	7	443.14
19	BOSTON UNIV	3052	51	59.84
20	UNIV STELLENBOSCH	3048	233	13.08

View the special topic of [tuberculosis](#).

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

KEYWORDS: TUBERCULOSIS, TB, MYCOBACTERIUM TUBERCULOSIS, COMPLETE GENOME SEQUENCE, GLOBAL BURDEN, INCIDENCE, PREVALENCE, MORTALITY, INFLIXIMAB-ASSOCIATED TUBERCULOSIS, MSCL HOMOLOG, DIAGNOSTIC STANDARDS, TOLL-LIKE RECEPTORS, EVOLUTIONARY SCENARIO, RECURRENT TUBERCULOSIS, MACROPHAGES, CHEMOTHERAPY, GENE EXPRESSION PROFILING, PROTEIN EXPRESSION PROFILING, VIRULENCE GENE CLUSTER, DRUG-RESISTANT TUBERCULOSIS, BLOOD TESTS, MULTIDRUG-RESISTANT TUBERCULOSIS, PRO-POOR HEALTH POLICY, LATENT TUBERCULOSIS INFECTION, PROTECTIVE PULMONARY CD4(+) T CELL RESPONSES, PHYLOGENY, INTERFERON-GAMMA ASSAYS, HOST-PATHOGEN COMPATIBILITY, TUBERCULOSIS VACCINES, SUB-SAHARAN AFRICA.

 PDF

[back to top](#) 

[Institutional Interviews : 2009](#) : Tuberculosis Research, the Top 20 Institutions

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