



Pharmaceutical Industry Profile 2009, Pharmaceutical Research and Manufacturers of America, PhRMA, www.phrma.org

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67 10 300 2006 68 2007 Research & Development, R&D 600 FDA 2008 10 35 2001 8 25% 15-20% 35-40% 30-35%

R&D Generic Drug R&D

Health Maintenance Organizations, HMOs

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API (1) (2) (3) -

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API Computational Fluid Dynamics, CFD

High-throughput Screening

International Council for Harmonization, ICH Quality by Design, QbD

(1) (2) API

Solution Crystallization Spray Drying Roller Compaction Twin Screw Extrusion

Table with 4 columns: Rank, Company Name, Revenue (\$), and Revenue (€)

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Table 25

Table 25: Top 25 Pharmaceutical Companies in 2015			
1. Novartis	\$49,414	14. Bristol-Myers Squibb	\$16,560
2. Pfizer	\$48,851	15. Boehringer Ingelheim	\$16,167
3. Sanofi	\$40,486	16. Takeda	\$16,068
4. Merck & Co.	\$39,498	17. Novo Nordisk	\$15,801
5. Roche	\$37,667	18. Allergan	\$15,071
6. GlaxoSmithKline	\$35,463	19. Bayer	\$15,017
7. Gilead	\$32,639	20. Merck KGaA	\$14,034
8. Johnson & Johnson	\$31,430	21. Otsuka	\$11,993
9. AstraZeneca	\$24,708	22. Biogen	\$10,764
10. AbbVie	\$22,859	23. Mylan	\$9,363
11. Amgen	\$21,662	24. Celgene	\$9,256
12. Eli Lilly & Co.	\$19,958	25. Daiichi Sankyo	\$8,770
13. Teva	\$19,652		

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1. <http://www.aiche.org/about>
2. <http://www.aaps.org/default.aspx>
3. American Journal of Pharmaceutical Education, <http://www.ajpe.org/>.
4. 2008, 72 (3), Article 68: Impact of the Career Explorers Program on High School Students' Perceptions of the Pharmacy Profession.
5. 2010, 74 (8), Article 149: Theoretical and Conceptual

Framework for a High School Pathways to Pharmacy Program.

6. 2011, 75 (10), Article 203: An Elective Course to Engage Student Pharmacists in Elementary School Science Education.
7. 2014, 78 (9), Article 167: An Educational Program for Underserved Middle School Students to Encourage Pursuit of Pharmacy and Other Health Science Careers.
8. Pharmaceutical Technology, <http://www.pharmtech.com/>.
9. BioPharm International, <http://www.biopharminternational.com/>.
10. Contract Pharma, <http://www.contractpharma.com/>.