



National Research Centre

Cairo, Egypt



1956 - 2016

ISO 9001 Accredited

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President, NRC

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Manpower

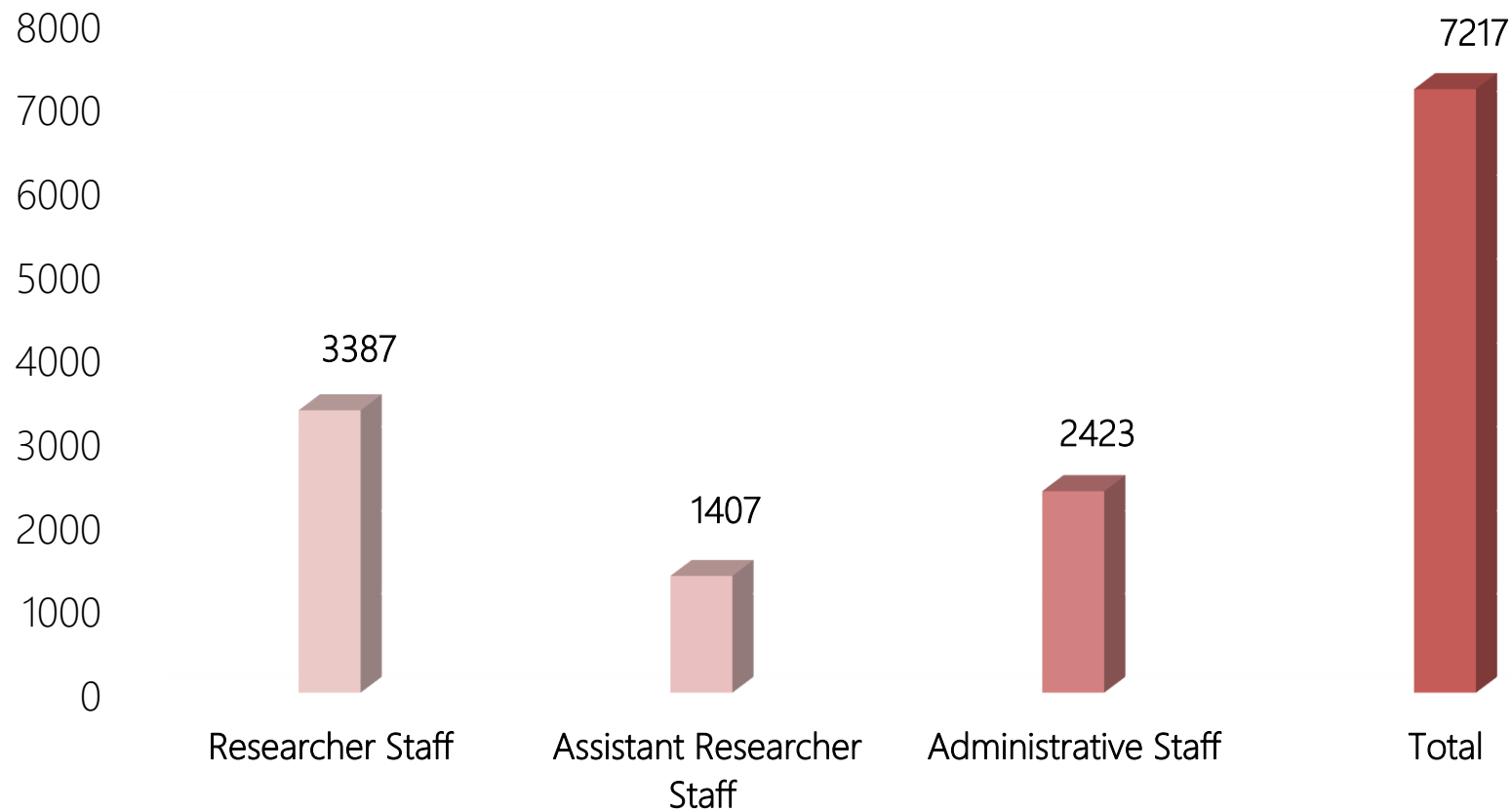
- The major multi-disciplinary R&D institute in E.
- Employs 70% of all scientists affiliated to MoSR.

Research staff: 3387

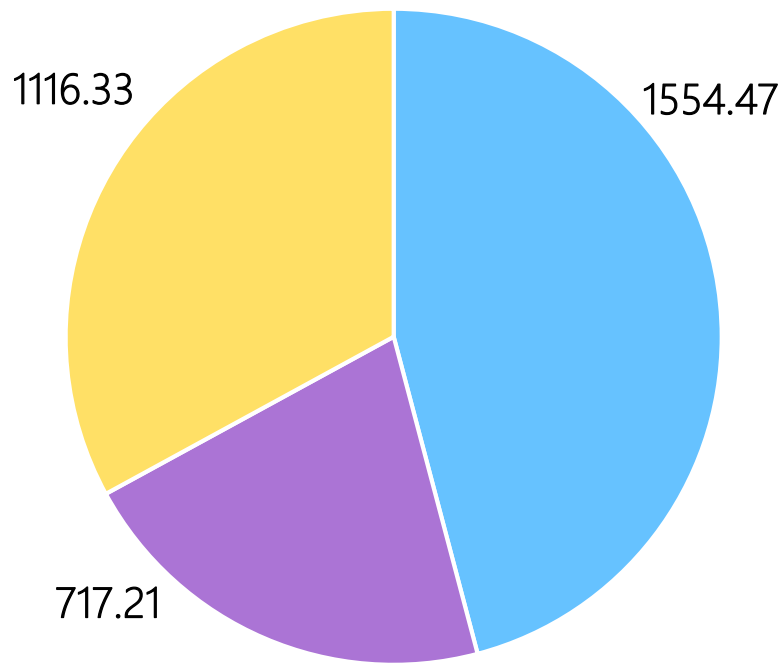
Scientific assistance: 1407

Administrative staff: 2423

Man Power of NRC



Researcher Staff of NRC

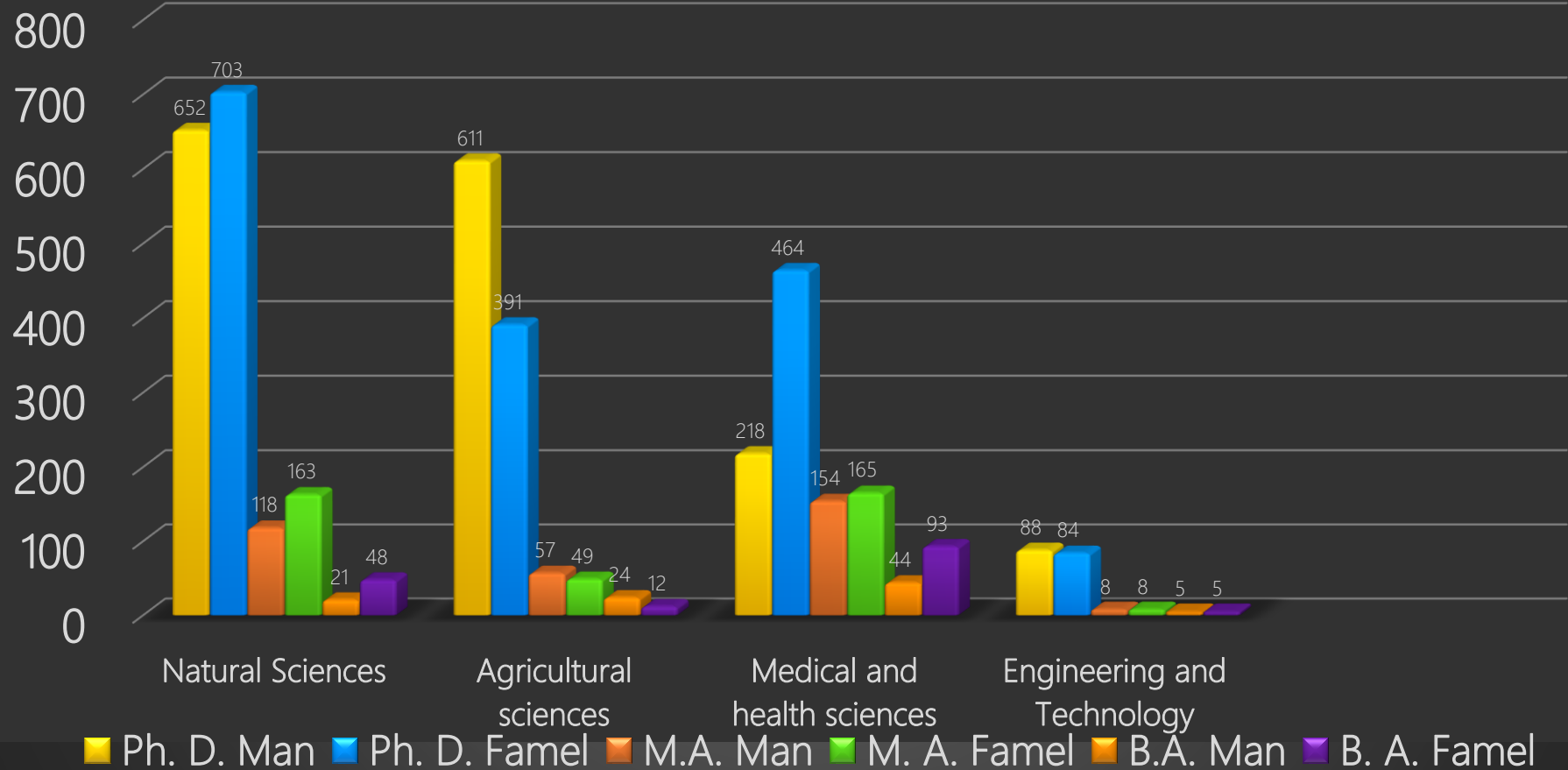


■ Prof. Researcher

■ Assistant Prof. Researcher

■ Researcher

Research Staff Based on their Disciplines





Research Divisions

Environmental Sciences

Oral and Dental Research

Inorg. Chem. Ind. and Mineral Resources

Org. Chem. Industries

Genetic Engineering & Biotechnology

Medical Sciences

Textile Industries

Engineering Research

Agriculture & Biology

Physics

Human Genetics & Genome

Food Ind. and Nutrition

Pharmaceutical Industries

Veterinary Research

Health and Environment

Industrial Research

Agriculture and Biology

Basic Science



Recent Achievements



*Advanced
materials*

Medical
Sciences

Human
Genetics

Influenza
Virus

Textile
Industries



The NRC Priorities

1- Health

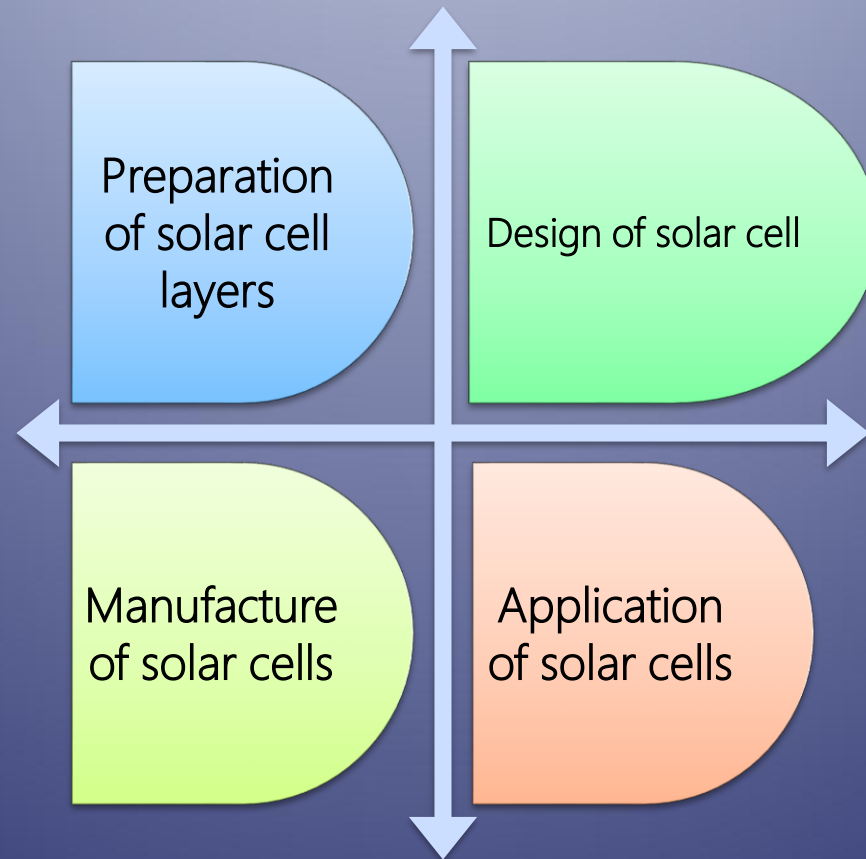
Stem cells
Diabetes

Breast and
liver Cancer



The NRC Priorities

2- Solar Cells





The NRC Priorities

3- Nanotechnology application

Biosensor based on metal and semiconductor nanoparticles for virus, bacteria and DNA detection

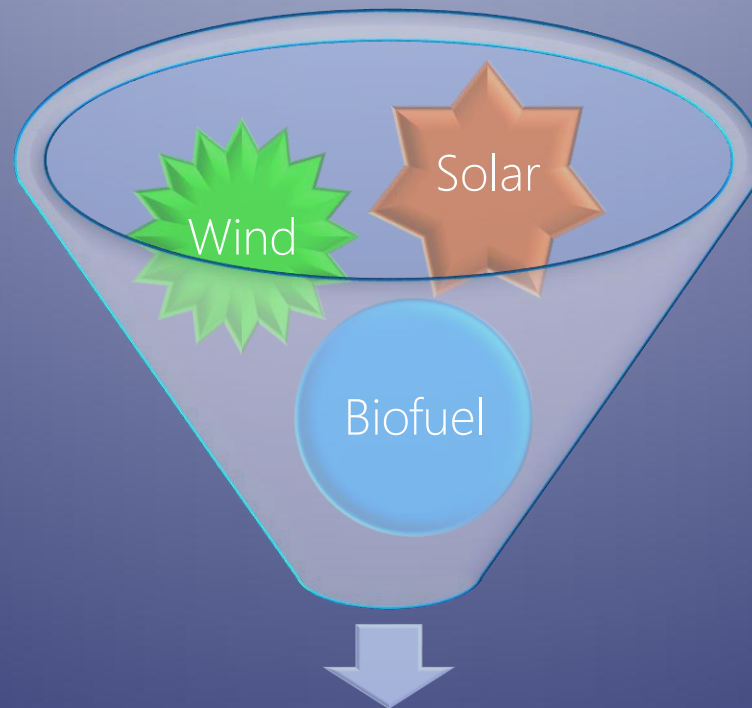
Bioactivity of ceramic/polymers nanocomposite for biomedical applications

Application of carbon nanotubes in medicine and environment



The NRC Priorities

4- Renewable energy



Renewable energy



The NRC Priorities

5- Industrial Research

Purification of industrial water from heavy metals and other contaminants

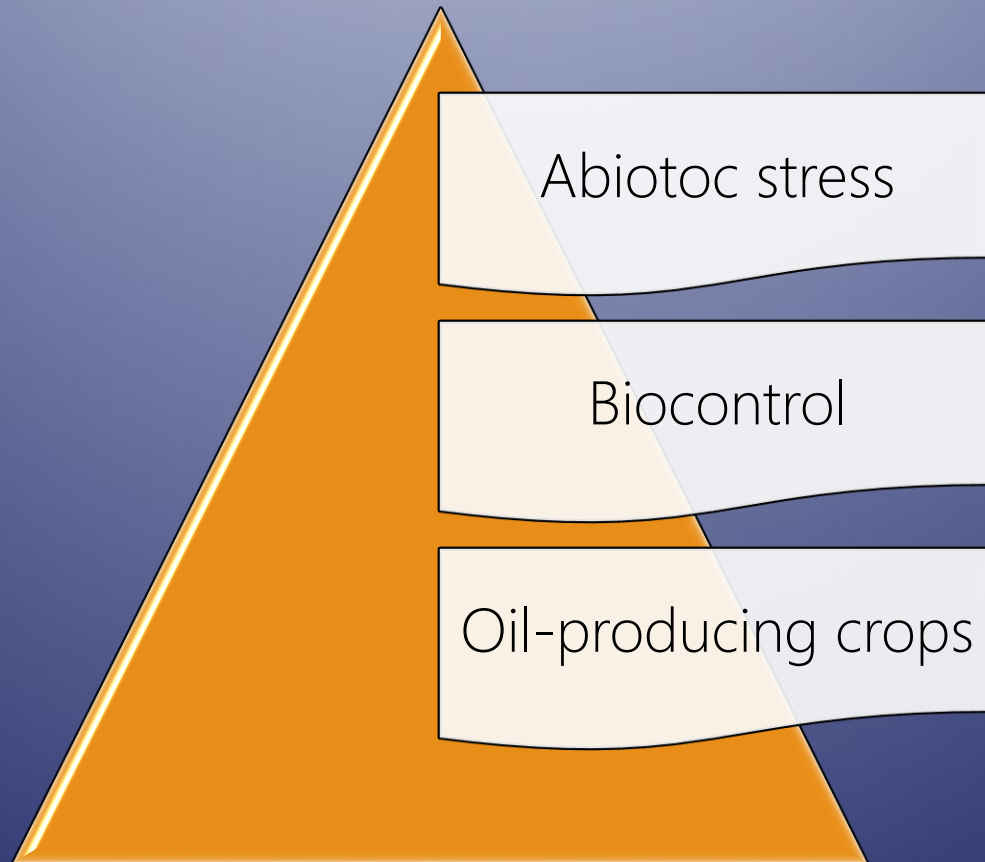
Functional Food from traditional experience to modern production

Functional polymers for various applications



The NRC Priorities

6- Agriculture





The NRC Priorities

7- Climate Changes

- Impact on Agriculture and soil
- Impact on human health
- Impact on water resources
- Sensor for climate change





Lab Facilities & Pilot Plants

Lab Facilities



DNA Sequencer (ION torrent)



Automated Image analysis system



Scanning Electron Microscope (SEM)



Transmission Electron Microscope (TEM)



Lab Facilities



Gel Documenter with Image lab software



Zeta Sizer



Electrophoresis Set



Microarray Scanner System



Lab Facilities Biotechnology Plant





Lab Facilities

Pilot Plant





Lab Facilities

Some Plant Equipment



Distillation



2 Reactors



Multi-speed Centrifuge



Extraction



Filtration



Dryer



Absorption

Experimental Park for Agricultural Researches



Experimental Park for Agricultural Researches



Experimental Park for Agricultural Researches



Pilot Plant for Textiles



Solar Energy Plant



Fungi Unit

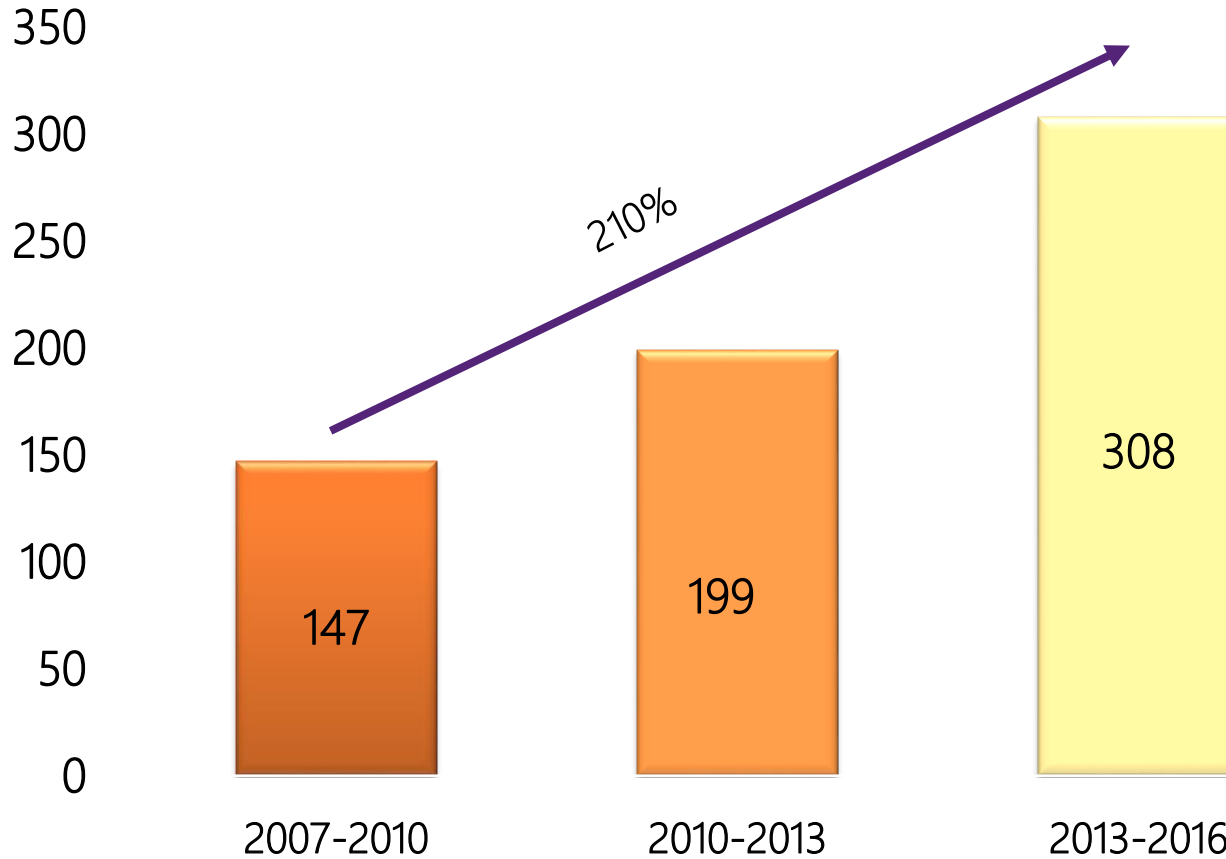


Green Houses



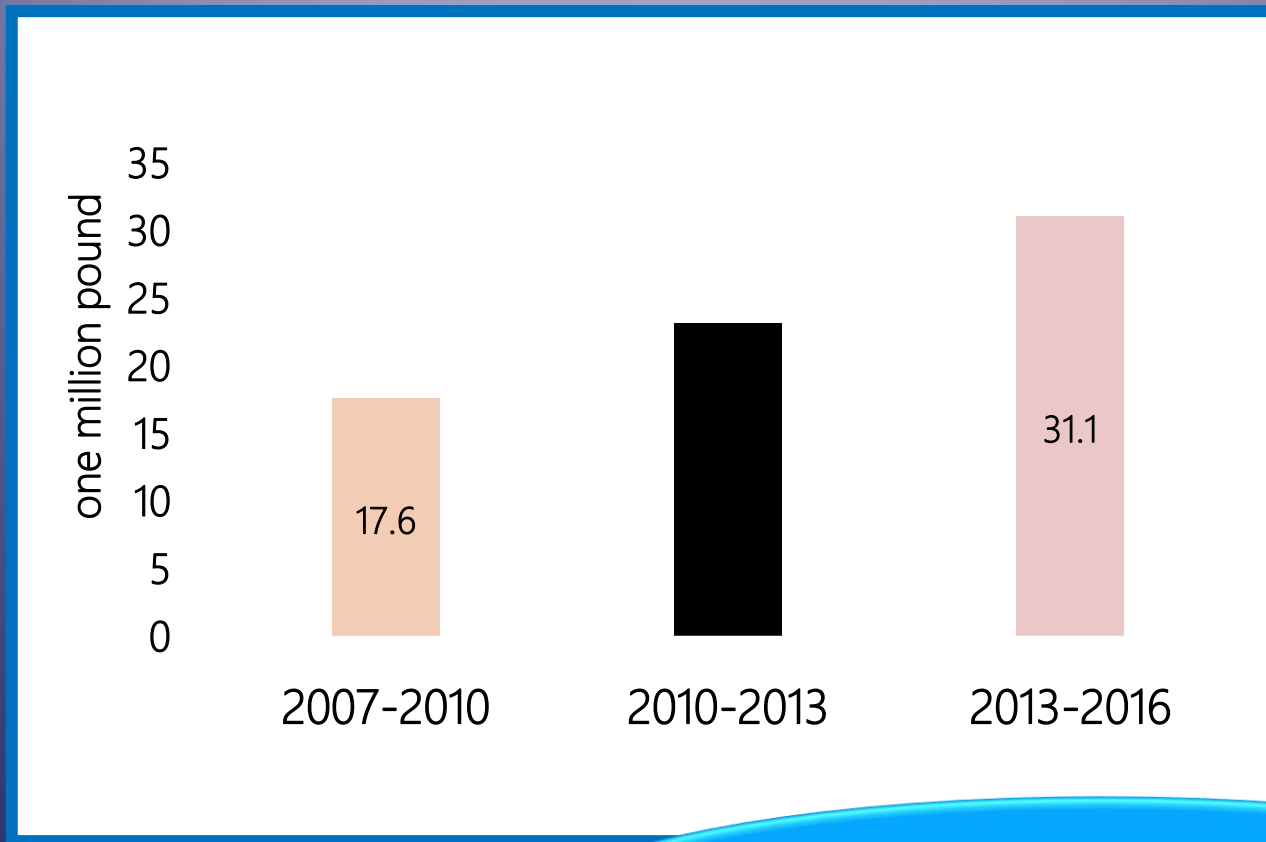
Scientific Records

Number of Research Projects



**371: 2016 –
2019**

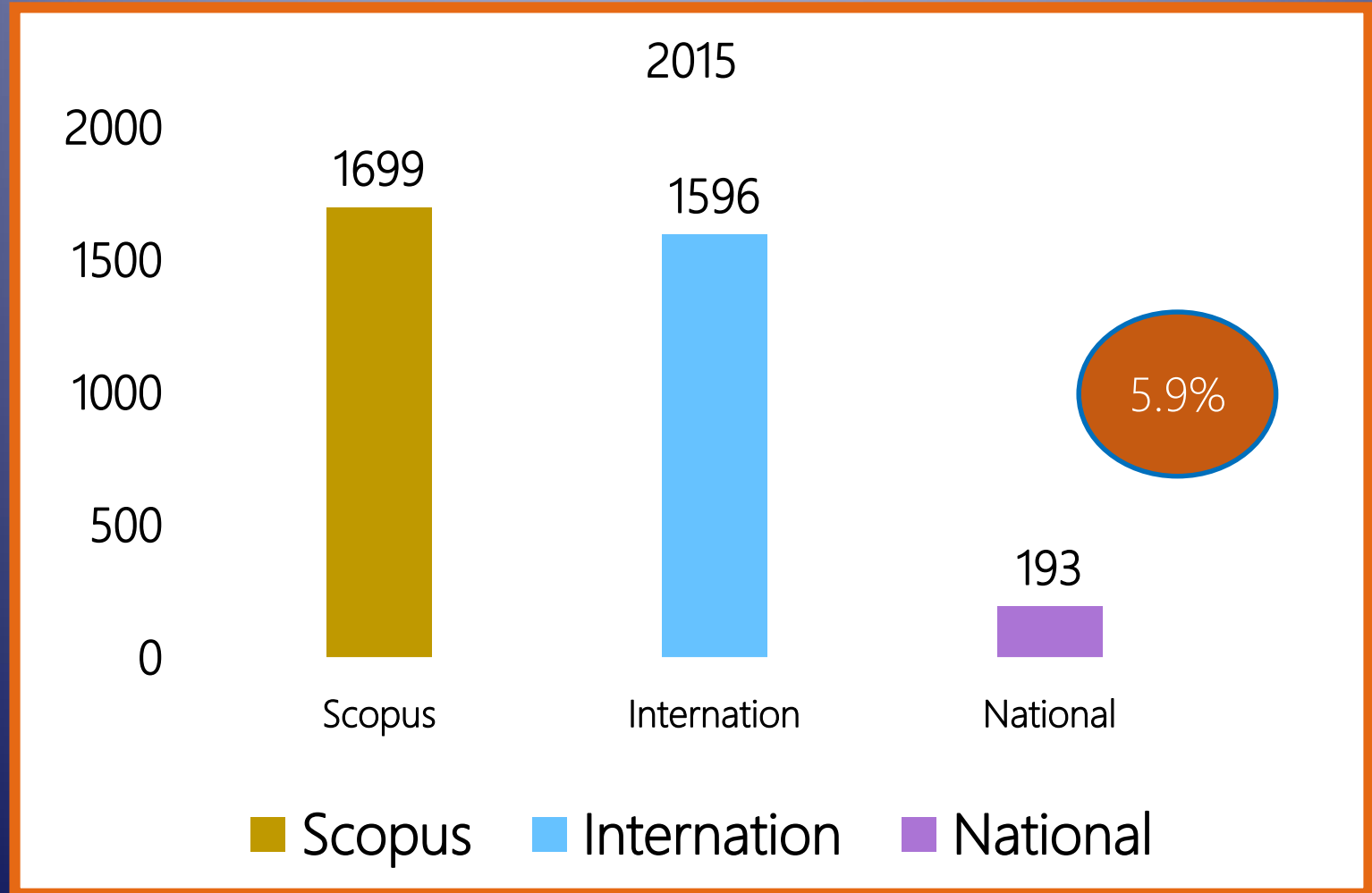
Budget for the research projects

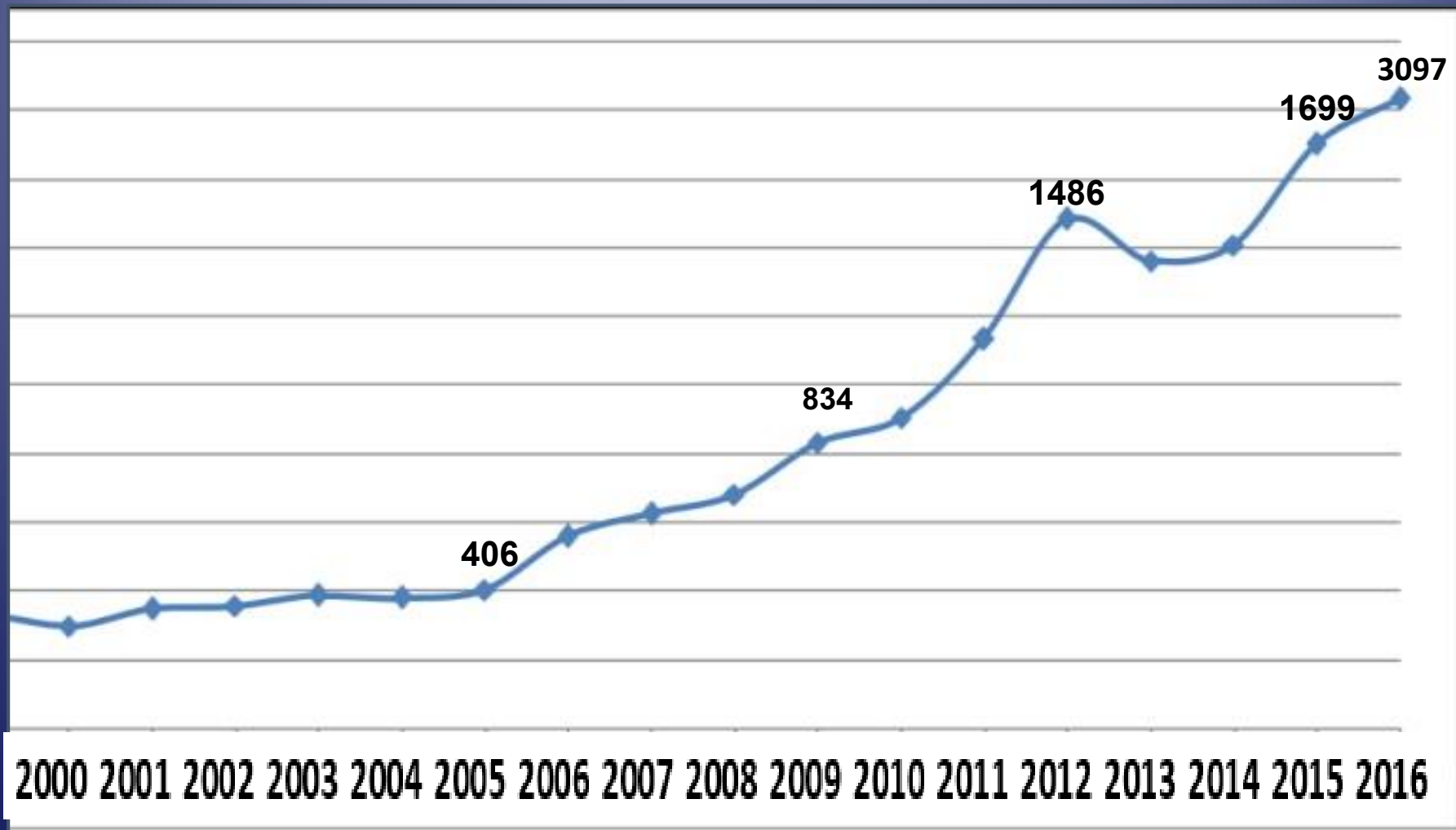


**2016 -2019: 52.500.000
EGP (expected)**

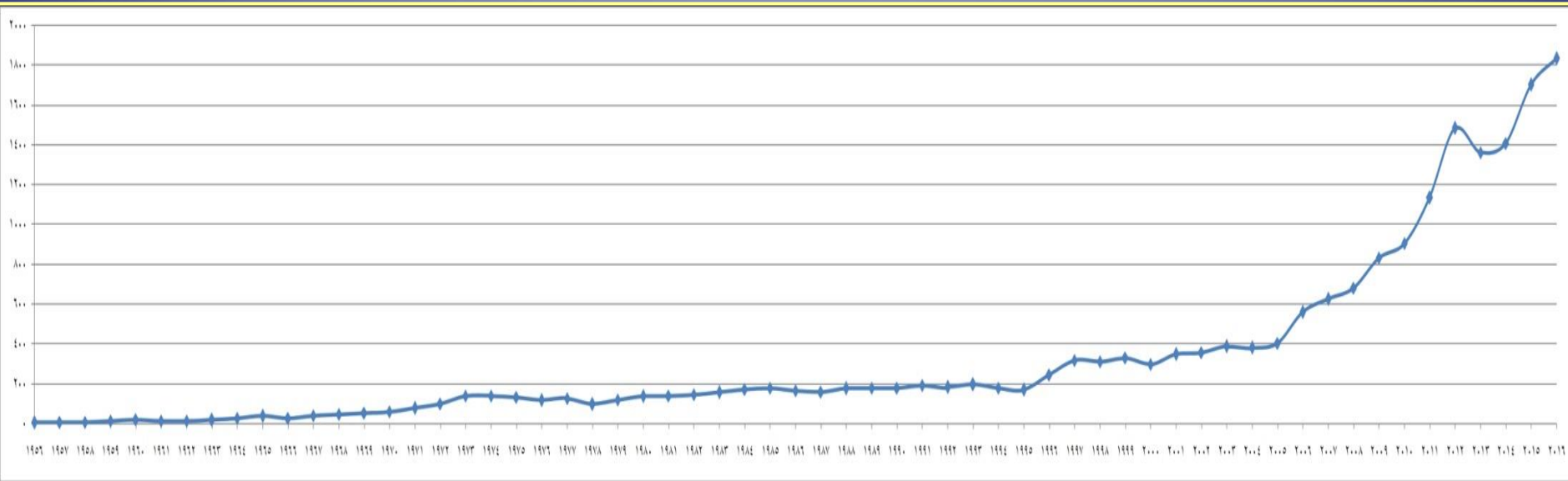
Publications

Publication "2015"



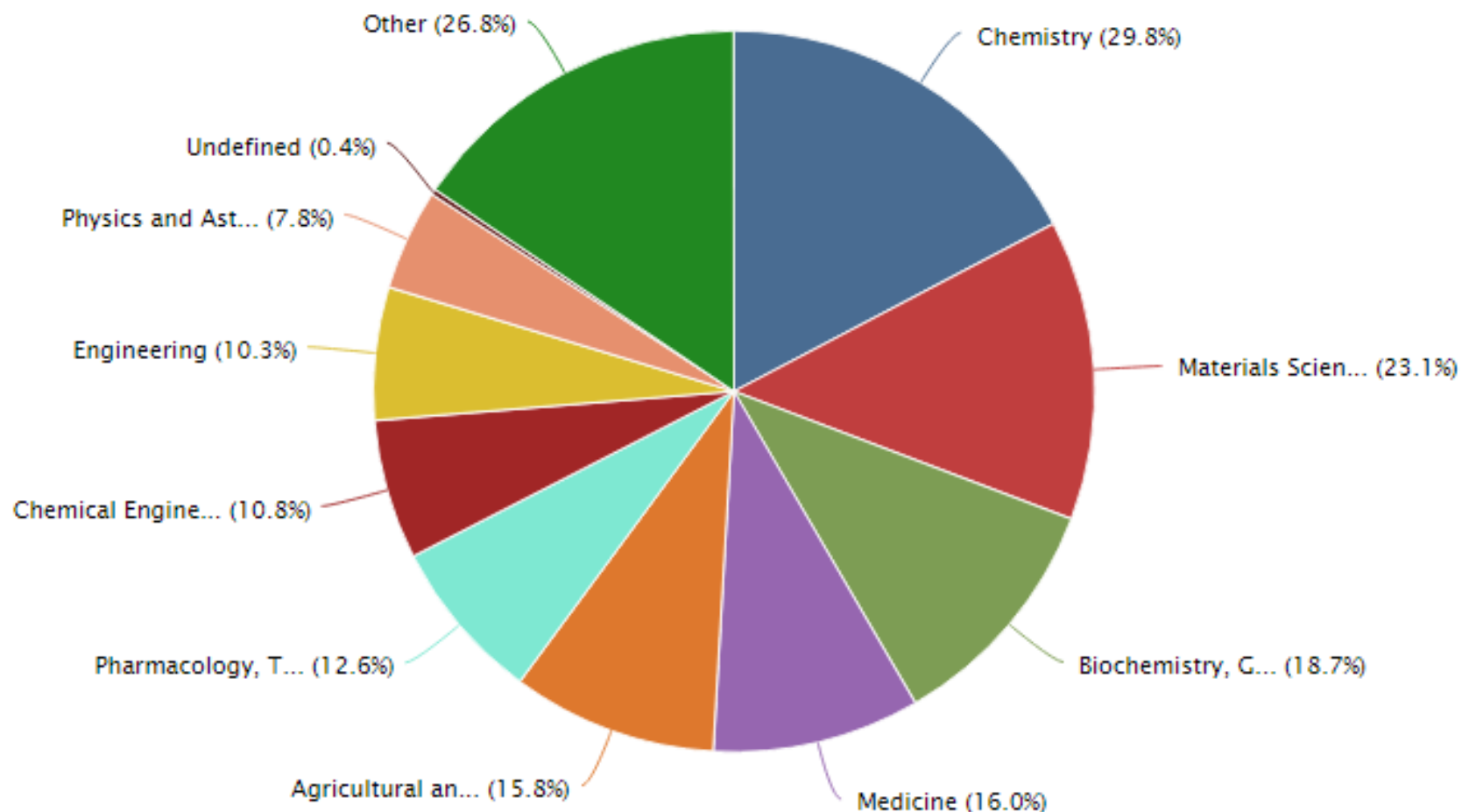


The rate of change in the number of SCOPUS publications

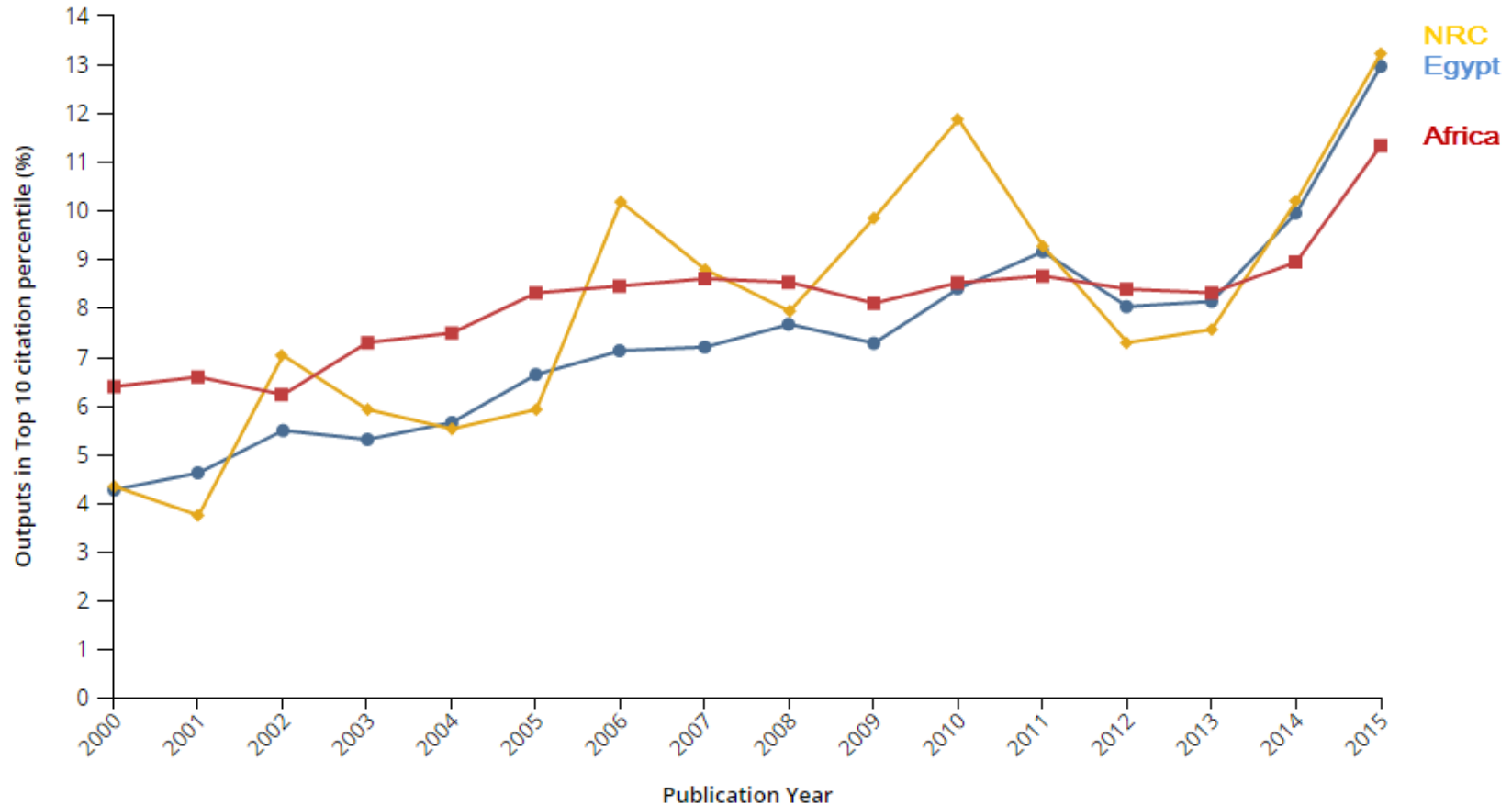


Publications

Documents by subject area

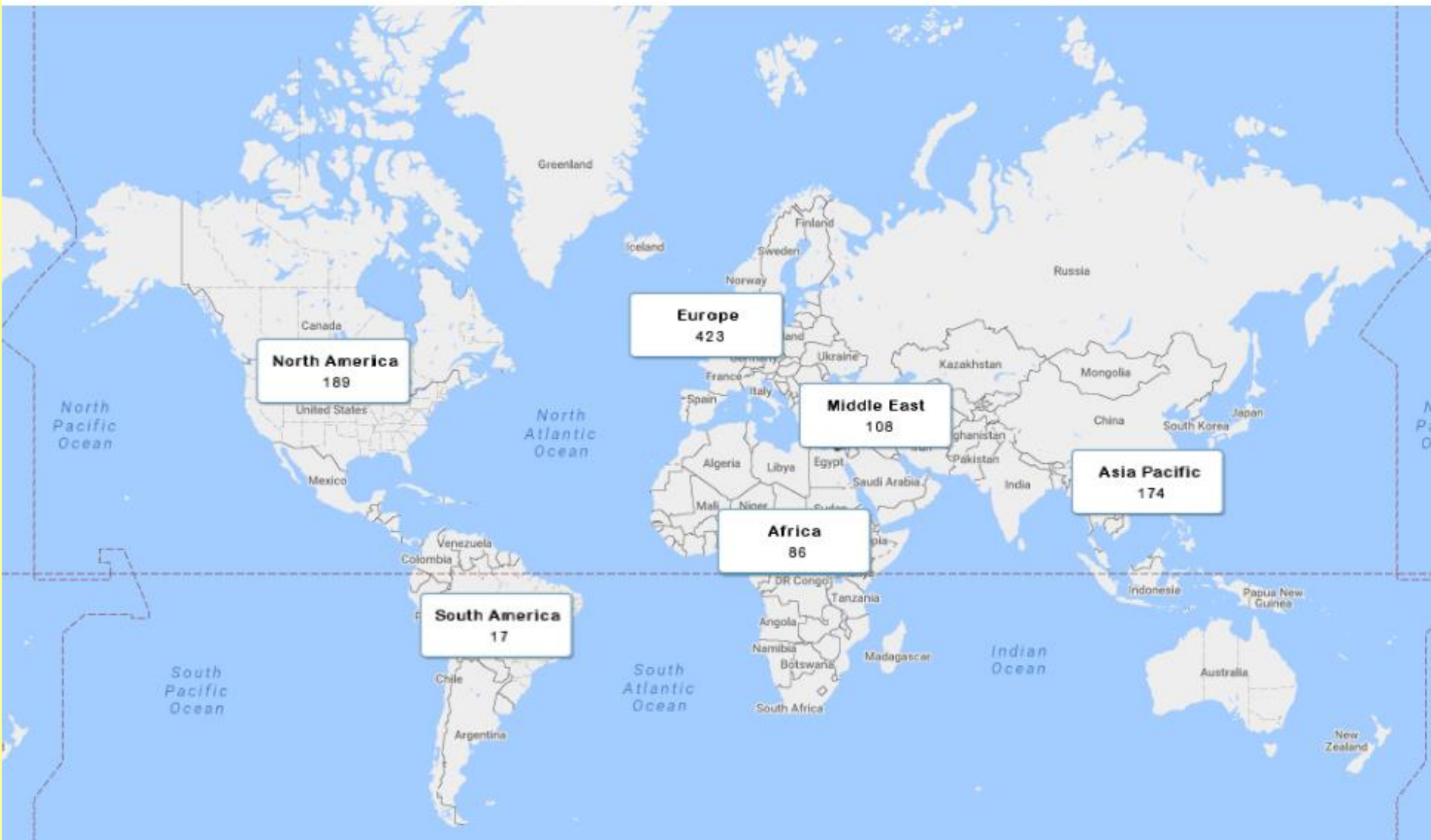


Number of publications in the top 10 Journals



International Cooperation in Publications

997 collaborating Institutions 4,594 co-authored publications



Effect of cooperation on the citation index (2011 – 2015)

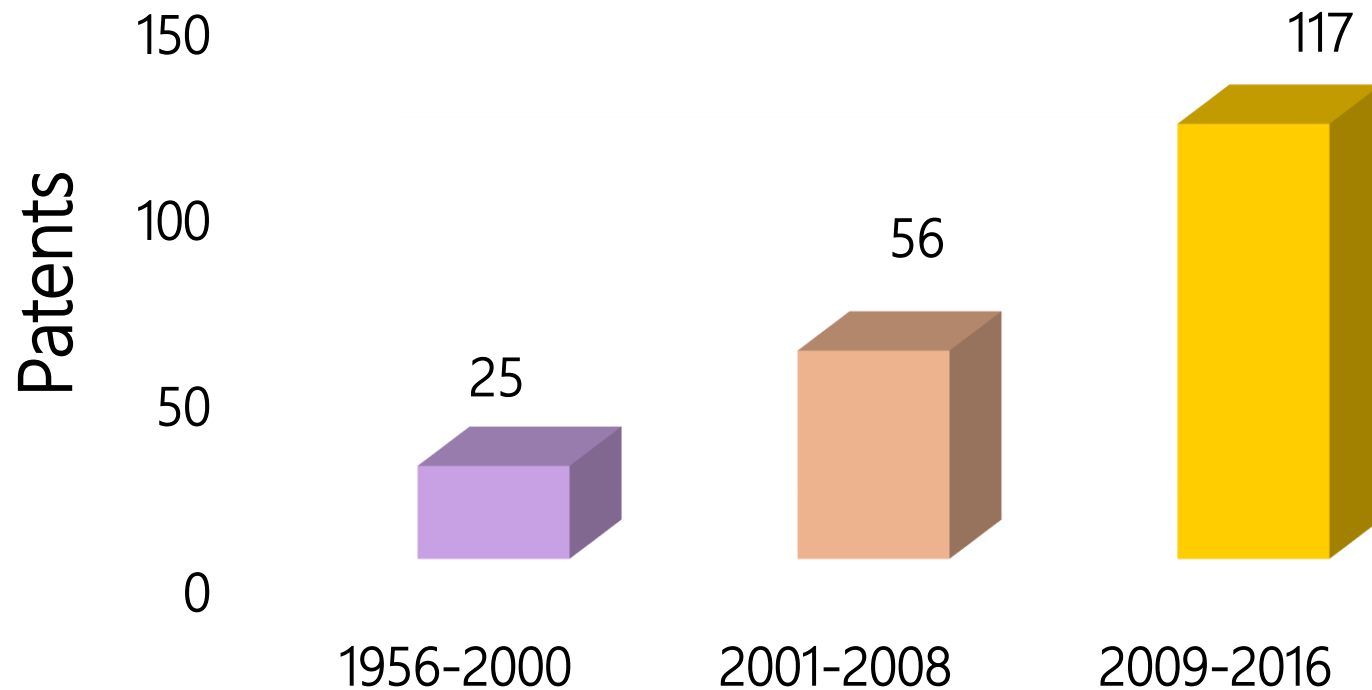


| Metric | | Publications | Citations | Citations per Publication | Field-Weighted Citation Impact |
|--------------------------------------|-------|--------------|-----------|---------------------------|--------------------------------|
| International collaboration | 38.2% | 3,395 | 17,440 | 5.1 | 1.05 |
| Only national collaboration | 28.6% | 2,538 | 7,520 | 3.0 | 0.58 |
| Only institutional collaboration | 29.3% | 2,605 | 7,249 | 2.8 | 0.51 |
| Single authorship (no collaboration) | 3.8% | 342 | 1,230 | 3.6 | 0.70 |

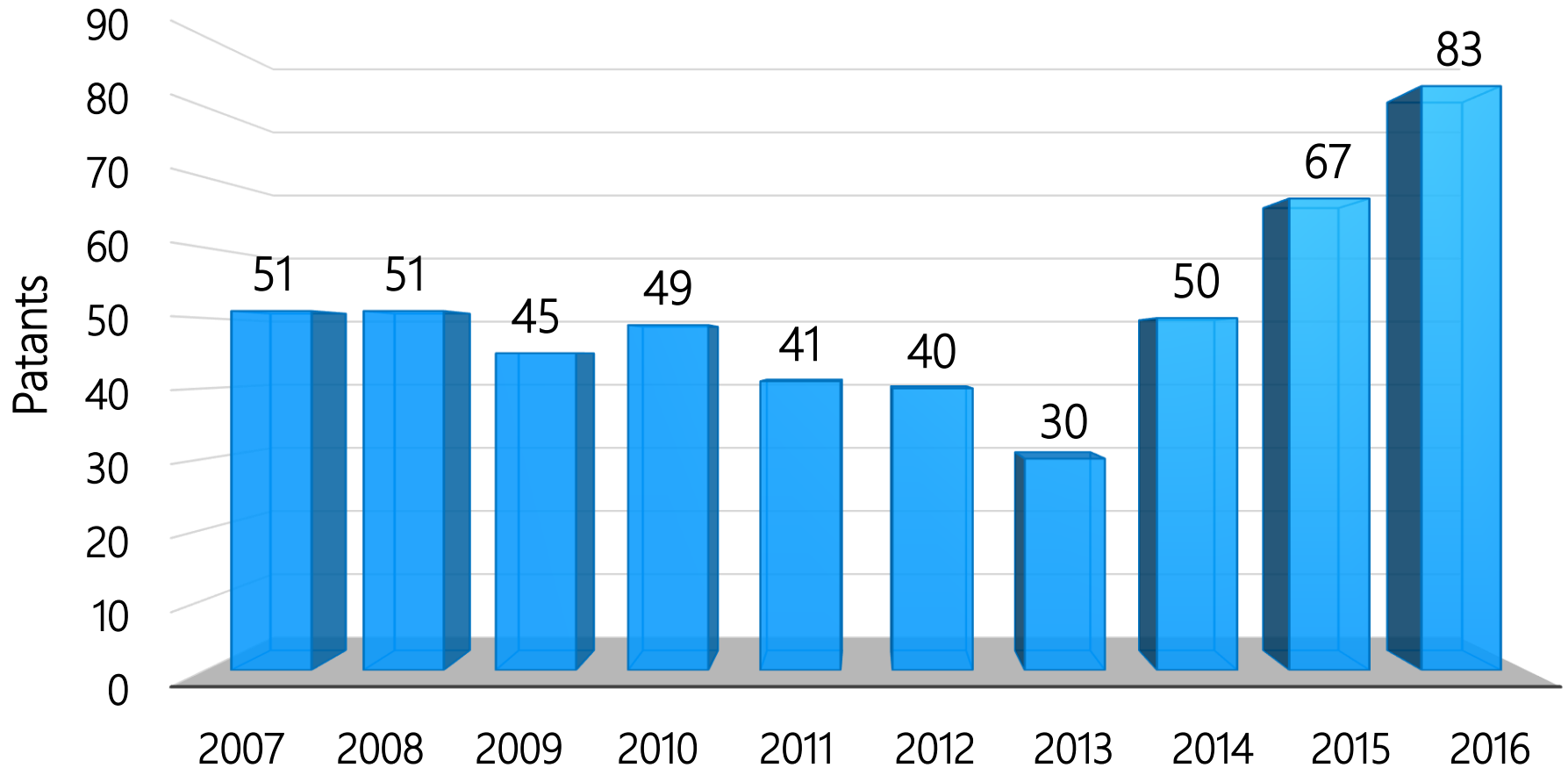
| | | | | | |
|--|---|------|------|------|------|
| | Universidad Autonoma del Estado de Mexico | 30 ▲ | 11 ▲ | 37 ▲ | 3.97 |
| | St. Jude Children Research Hospital | 14 ▼ | 19 ▼ | 14 ▼ | 3.41 |
| | Broad Institute | 10 ▲ | 11 ▲ | 4 ▲ | 3.33 |
| | University of Cambridge | 11 ▼ | 8 ▼ | 14 | 2.98 |
| | Istanbul University | 12 | 14 ▲ | 10 ▼ | 2.92 |
| | University of Washington | 11 ▼ | 6 ▼ | 8 ▼ | 2.63 |
| | Universite Paris 6 | 22 ▼ | 14 ▼ | 27 | 2.52 |
| | Universite Pierre et Marie Curie | 22 ▼ | 14 ▼ | 25 | 2.52 |
| | University of California at San Diego | 31 | 20 ▼ | 68 ▲ | 2.49 |
| | Universidad Autonoma de Madrid | 10 ▲ | 8 ▲ | 16 ▲ | 2.44 |
| | University of Mainz | 20 ▲ | 11 ▲ | 25 ▲ | 2.43 |
| | Peking University | 9 ▲ | 5 ▲ | 12 ▲ | 2.41 |
| | University of Florida | 18 ▲ | 21 ▲ | 31 ▲ | 2.32 |
| | Tohoku University | 10 | 5 | 10 ▲ | 2.28 |
| | Alfaisal University | 15 ▲ | 18 ▲ | 56 ▲ | 2.12 |
| | Dankook University | 14 ▲ | 4 ▲ | 23 ▲ | 2.08 |
| | Stanford University | 10 ▲ | 5 ▼ | 9 ▲ | 1.92 |

Patents

Number of accepted papetns 1965 - 2016



Number of Submitted Patenst



NRC Initiatives for CCC

STDF Grants

NRC Lab Facilities

International Thematic
Research Groups

Training Centre



Thank You